

Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No. NMNM138893	
6. If Indian, Allottee or Tribe Name	
7. If Unit of CA/Agreement, Name and/or No. NMNM141169X	
8. Well Name and No. SEINFELD FEDERAL UNIT GIPPLE/154H	
9. API Well No. 3002552036	
10. Field and Pool or Exploratory Area WC-025 G-07 S243532M/Wolfbone	
11. Country or Parish, State LEA/NM	

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 8	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	

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 175 FSL & 845 FEL, SESE, Sec. 33, T.24S, R.35E to 175 FSL & 590 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	Title 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	Title Petroleum Engineer	Date 11/13/2025
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office CARLSBAD	

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

(Instructions on page 2)

Well Name: SEINFELD FEDERAL UNIT GIPPLE	Well Location: T24S / R35E / SEC 33 / SESE / 32.1672081 / -103.3666392	County or Parish/State: LEA / NM
Well Number: 154H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM138893	Unit or CA Name:	Unit or CA Number: NMNM141169X
US Well Number: 3002552036	Operator: CIVITAS PERMIAN OPERATING LLC	

Notice of Intent

Sundry ID: 2869663

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 08/26/2025	Time Sundry Submitted: 09:56
Date proposed operation will begin: 09/15/2025	

Procedure Description: 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 175' FSL & 845' FEL, SESE, Sec. 33, T.24S, R.35E to 175' FSL & 590' 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.

NOI Attachments

Procedure Description

Gipple_154H_Sundry_Attachment_20250826095450.pdf

Received by OCD: 11/13/2025 3:54:11 PM

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Well Location: T24S / R35E / SEC 33 / SESE / 32.1672081 / -103.3666392

County or Parish/State: LEA / NM

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Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM138893

Unit or CA Name:

Unit or CA Number: NMNM141169X

US Well Number: 3002552036

Operator: CIVITAS PERMIAN OPERATING LLC

Conditions of Approval

Additional

Sec_33_24S_35E_NMP_Sundry_2869663_Seinfeld_Federal_Unit_Gipple_154H_COAs_20251024121144.pdf

Operator

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Operator Electronic Signature: CORY WALK

Signed on: AUG 26, 2025 01:01 PM

Name: CIVITAS PERMIAN OPERATING LLC

Title: Permitting Agent

Street Address: 5 CALIENTE ROAD SUITE 3A

City: SANTA FE

State: NM

Phone: (505) 466-8120

Email address: AFMSS@PERMITSWEST.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: CWALLS@BLM.GOV

Disposition: Approved

Disposition Date: 11/13/2025

Signature: Chris Walls

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(October 2024)

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(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

Additional Information

Location of Well

0. SHL: SESE / 175 FSL / 845 FEL / TWSP: 24S / RANGE: 35E / SECTION: 33 / LAT: 32.1672081 / LONG: -103.3666392 (TVD: 0 feet, MD: 0 feet)

PPP: SESE / 145 FSL / 415 FEL / TWSP: 24S / RANGE: 35E / SECTION: 33 / LAT: 32.1672217 / LONG: -103.3652265 (TVD: 11315 feet, MD: 11338 feet)

PPP: NENE / 1320 FNL / 330 FEL / TWSP: 24S / RANGE: 35E / SECTION: 33 / LAT: 32.177581 / LONG: -103.36498 (TVD: 11657 feet, MD: 15287 feet)

BHL: NENE / 5 FNL / 330 FEL / TWSP: 24S / RANGE: 35E / SECTION: 28 / LAT: 32.1957426 / LONG: -103.3649972 (TVD: 11571 feet, MD: 21889 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Tap Rock Operating LLC
WELL NAME & NO.:	Seinfeld Federal Unit Gipple 154H
LOCATION:	Sec 33-24S-35E-NMP
COUNTY:	Lea County, New Mexico

*Changes approved through engineering via **Sundry 2869663** 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.

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-52036	Pool Code 98098	Pool Name WC025 G09 S243532M; WOLFBONE
Property Code 335286	Property Name SEINFELD GIPPLE FEDERAL UNIT	Well Number 154H
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.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
P	33	24-S	35-E	-	175' S	590' E	N 32.1672094	W 103.3658152	LEA

Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
A	28	24-S	35-E	-	5' N	760' E	N 32.1957425	W 103.3663872	LEA

Dedicated Acres 320	Infill or Defining Well Infill	Defining Well API 30-025-46670	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.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
P	33	24-S	35-E	-	175' S	590' E	N 32.1672094	W 103.3658152	LEA

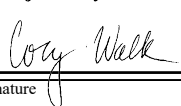
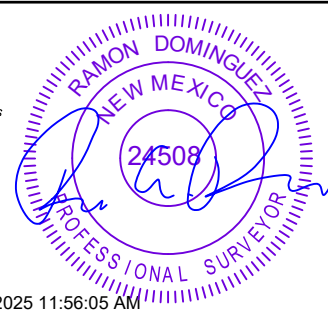
First Take Point (FTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
P	33	24-S	35-E	-	100' S	760' E	N 32.1670020	W 103.3663641	LEA

Last Take Point (LTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
A	28	24-S	35-E	-	100' N	760' E	N 32.1954814	W 103.3663871	LEA

Unitized Area or Area of Uniform Interest Unit: NMNM-141169X	Spacing Unity Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation 3284'
--	--	--

OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief; and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received The consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.  08-13-2025		SURVEYORS CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  5/6/2025 11:56:05 AM	
Signature Cory Walk		Signature and Seal of Professional Surveyor	
Date		Date	
Print Name cory@permitswest.com		Certificate Number	Date of Survey 5-3-2025
E-mail Address			

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Submittal Type: ☐ Initial Submittal ☒ Amended Report ☐ As Drilled
Property Name and Well Number SEINFELD GIPPLE FEDERAL UNIT 154H		

SURFACE LOCATION (SHL)

NEW MEXICO EAST
 NAD 1983
 X=840717
 Y=425912
 LAT.: N 32.1672094
 LONG.: W 103.3658152
 175' FSL 590' FEL

FIRST TAKE POINT (FTP)

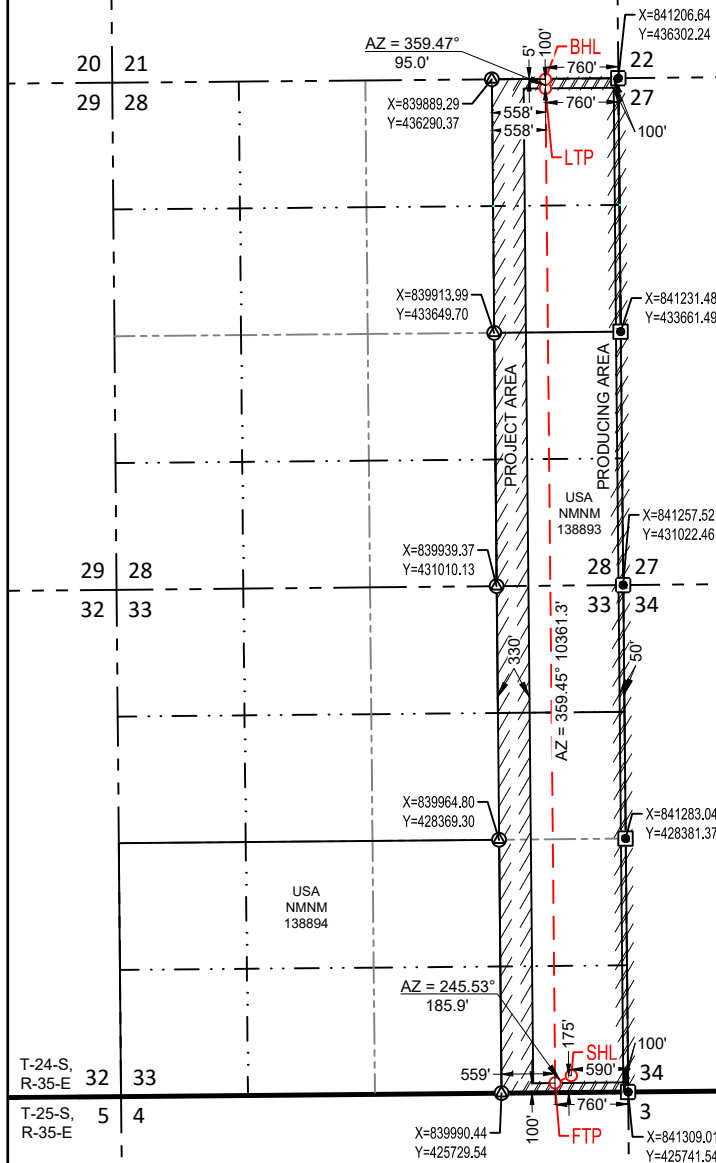
NEW MEXICO EAST
 NAD 1983
 X=840548
 Y=425835
 LAT.: N 32.1670020
 LONG.: W 103.3663641
 100' FSL 760' FEL

LAST TAKE POINT (LTP)

NEW MEXICO EAST
 NAD 1983
 X=840448
 Y=436195
 LAT.: N 32.1954814
 LONG.: W 103.3663871
 100' FNL 760' FEL

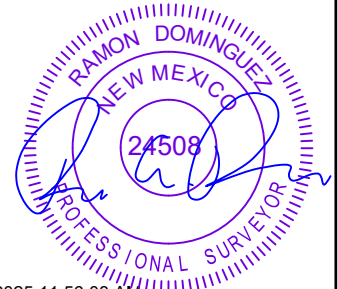
BOTTOM HOLE LOCATION (BHL)

NEW MEXICO EAST
 NAD 1983
 X=840447
 Y=436290
 LAT.: N 32.1957425
 LONG.: W 103.3663872
 5' FNL 760' FEL

**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:





Gipple Sundry Summary

7/30/2025

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

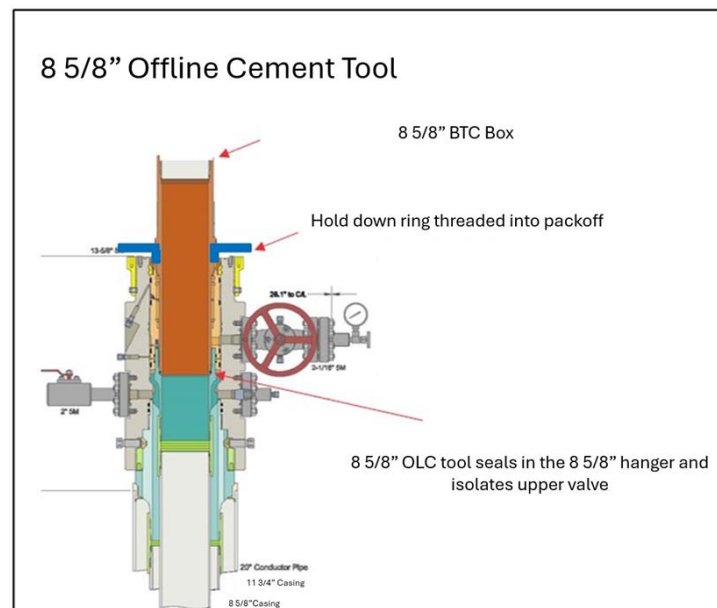
1. **SHL Sundry (completed):** directional plans for new C102s (SHL changes) were adjusted for anti-collision. A copy of the directional plans and anti-collision the Gipple pad are included in the sundry package (total of 2 wells)
2. **Casing Design/Hole Size:** Civitas Resources requests to sundry the 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).

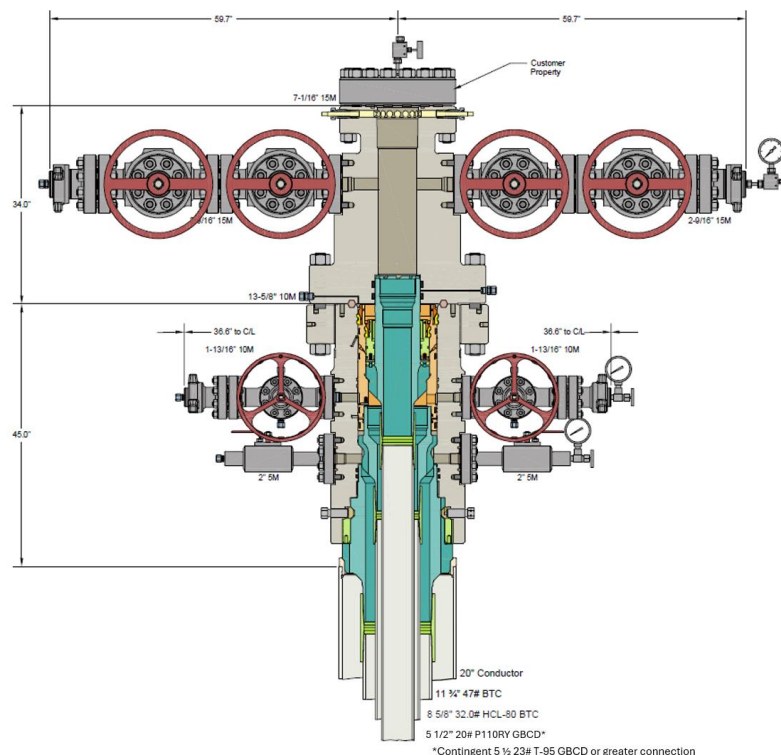




6. BOPE Testing Procedure for Batch Drilling: Civitas Resources requests a variance to adjust the BOPE testing procedure to accommodate batch drilling. Details of the request are below:

- 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

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

8/4/2025 9:46:32 AM



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

UNCONTROLLED

Notes

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

Legal Notice

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 #154H
 Target: 3rd Bone Spring Carb
 Civitas Permian Operating, LLC
 SHL 175' FSL & 590' FEL, Sec. 33
 BHL 5' FNL & 760' 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	5217	Sand - water flow/lost circulation	Salt
Cherry Canyon	6128	6140	Sand - water flow/lost circulation	None
Brushy Canyon	7644	7656	Sand - water flow/lost circulation	Hydrocarbons
Brushy Canyon Lwr	8790	8802	Sand - water flow/lost circulation	Hydrocarbons
Avalon Upr	8990	9002	Limestone/Shale	Hydrocarbons
Avalon Mid	9258	9270	Limestone	Hydrocarbons
Avalon Lwr	9679	9691	Limestone/Shale	Hydrocarbons
1st Bone Spring Sand	10157	10169	Sandstone	Hydrocarbons
2nd Bone Spring Carb	10332	10344	Limestone/Shale	Hydrocarbons
2nd Bone Spring Sand	10949	10961	Sandstone/Shale	Hydrocarbons
3rd Bone Spring Carb	11252	11265	Limestone/Shale	Hydrocarbons
3rd Bone Spring Shale	11427	11450	Limestone/Shale	Hydrocarbons
Landing Point	11735	12075	LP @ 0' VS	Hydrocarbons
KOP	11158	11170	Sandstone	Hydrocarbons
TD	11644	21946	Carbonate	Hydrocarbons

2. Notable Zones

The primary target zone is 3rd Bone Spring Carbonate. 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 21,946', 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



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needed. BOP will be inspected and operated as recommended in Onshore Order 43 3172. A top drive 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.

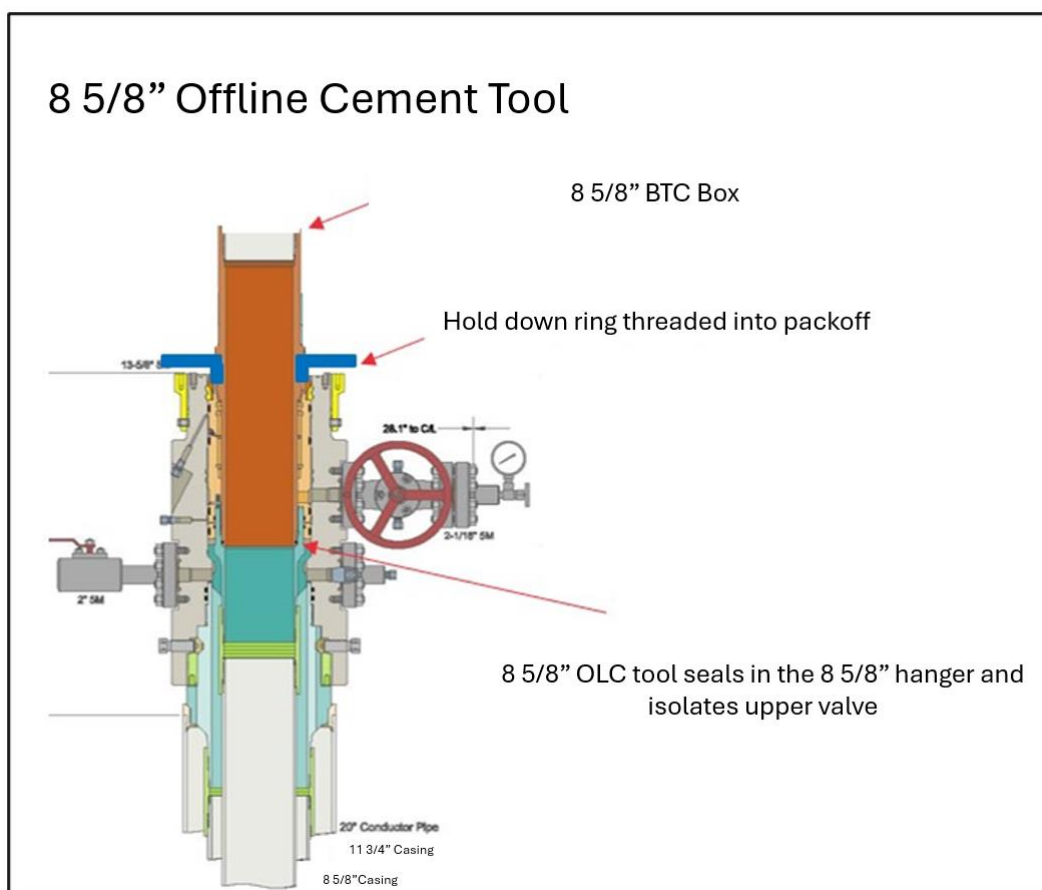
Variance Requests:

- **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



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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). 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	5,067	8 5/8	API	No	0	5,067	0	5,055	HCL80	32	BTC	1.13	1.15	1.8
Production	7 7/8	5,067	21,946	5 1/2	NON API	No	0	21,946	0	11,644	P110RY	20	GBCD	1.13	1.15	1.8



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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	1560	10.5	200%	C	Additives + LCM
	Tail	4067	181	1.16	210	13.2	100%	C	Additives + LCM
Production	Lead	4567	345	3.93	1355	10.5	20%	C	Additives + LCM
	Tail	11158	1558	1.44	2243	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	5,067	Brine Water	10.00	27-30	NC
Production	5,067	21,946	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.

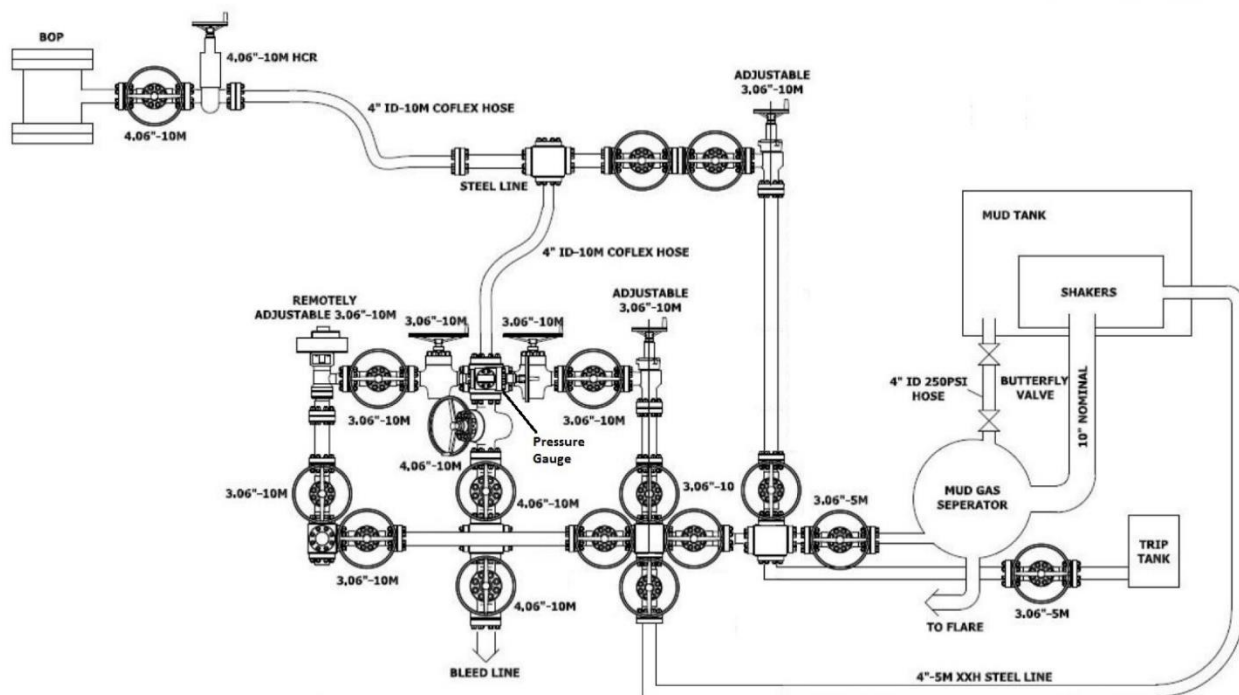


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 BHL 5' FNL & 760' FEL, Sec. 28
 T. 24S., R. 35E Lea County, NM

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.

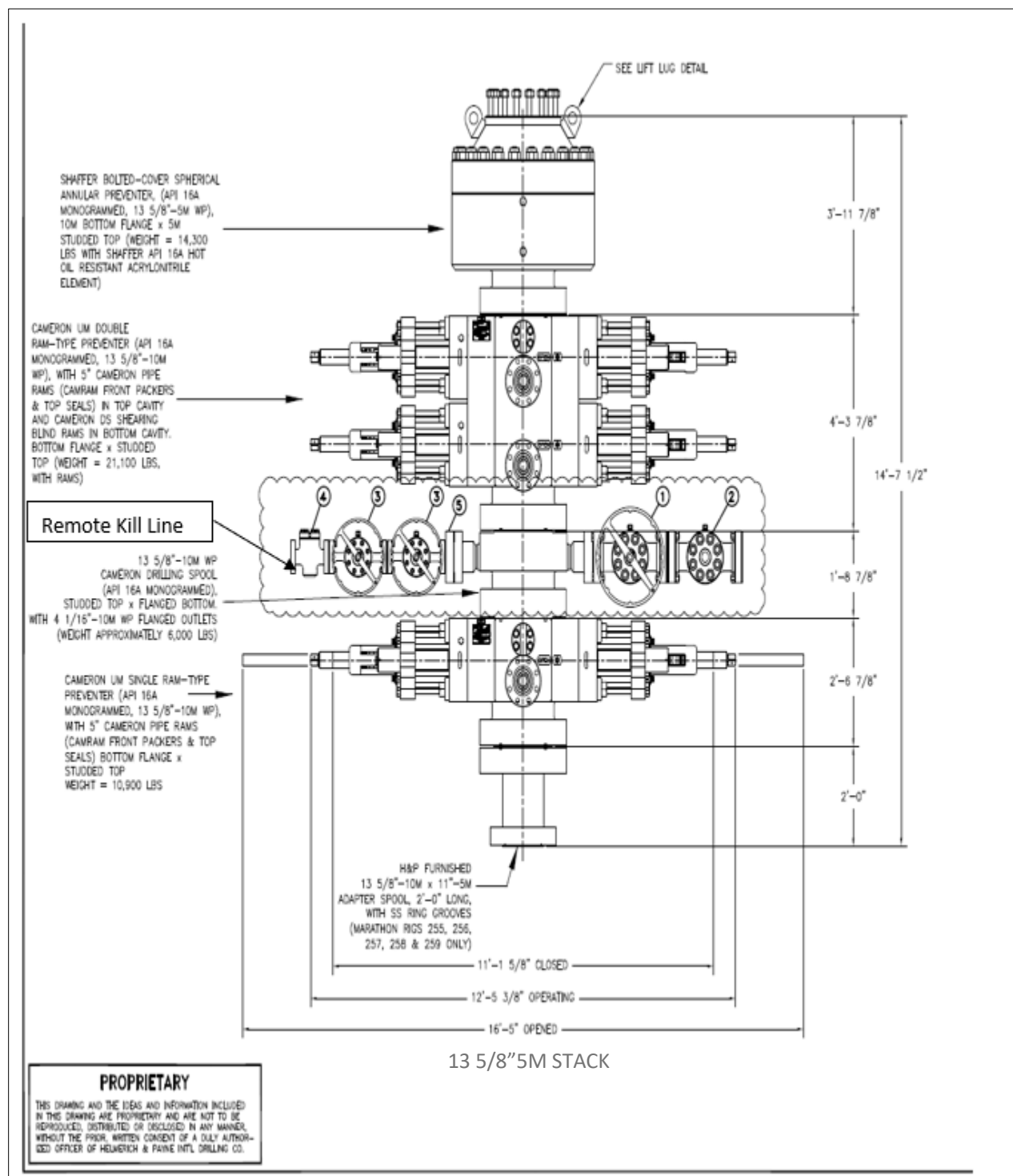
10M Choke Layout





Drilling Operations Plan
 Gipple Fed Com #154H
 Target: 3rd Bone Spring Carb
 Civitas Permian Operating, LLC
 SHL 175' FSL & 590' FEL, Sec. 33
 BHL 5' FNL & 760' FEL, Sec. 28
 T. 24S., R. 35E Lea County, NM

5,000 psi BOP Stack





Drilling Operations Plan

Gipple Fed Com #154H

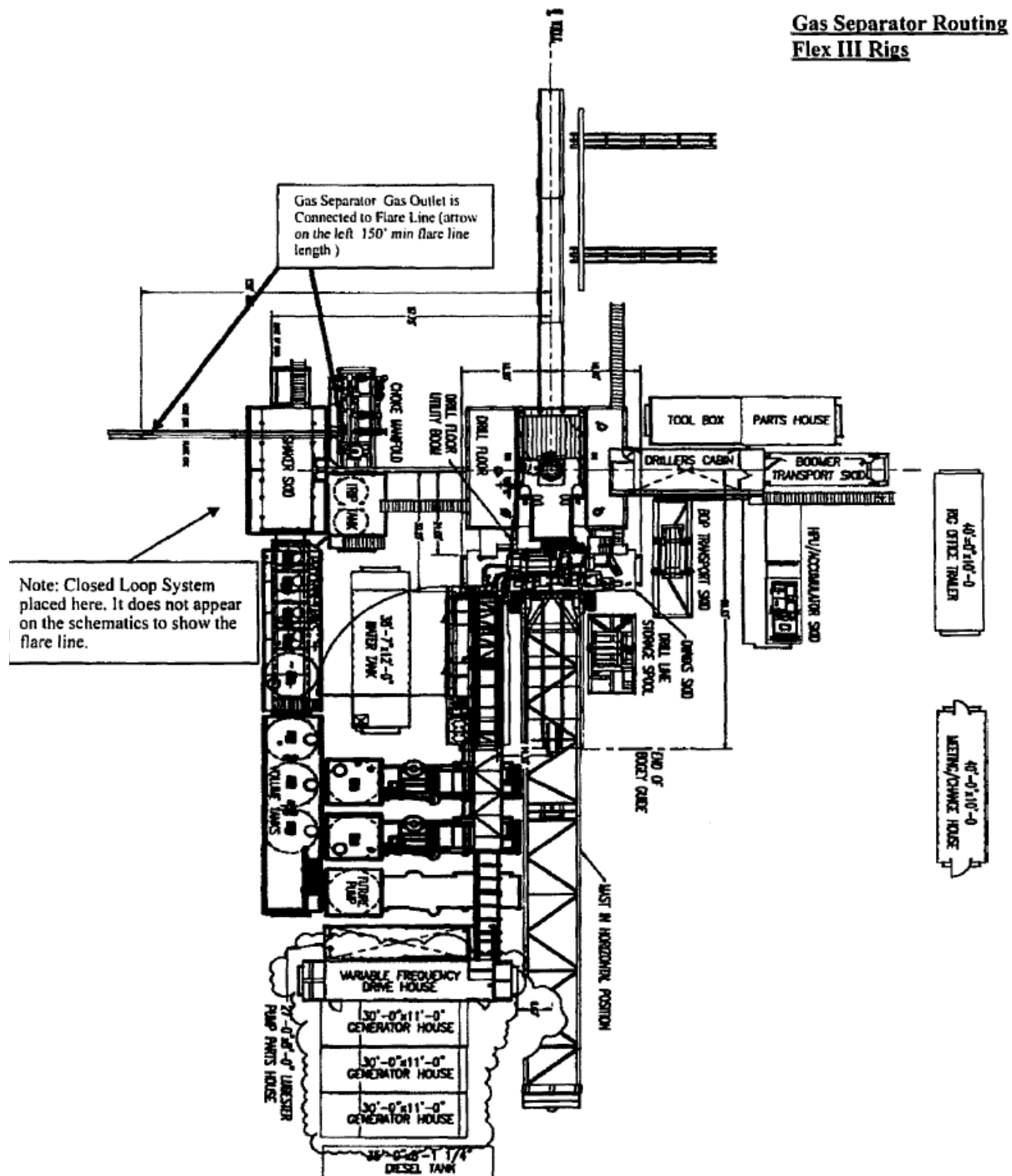
Target: 3rd Bone Spring Carb

Civitas Permian Operating, LLC

SHL 175' FSL & 590' FEL, Sec. 33

BHL 5' FNL & 760' FEL, Sec. 28

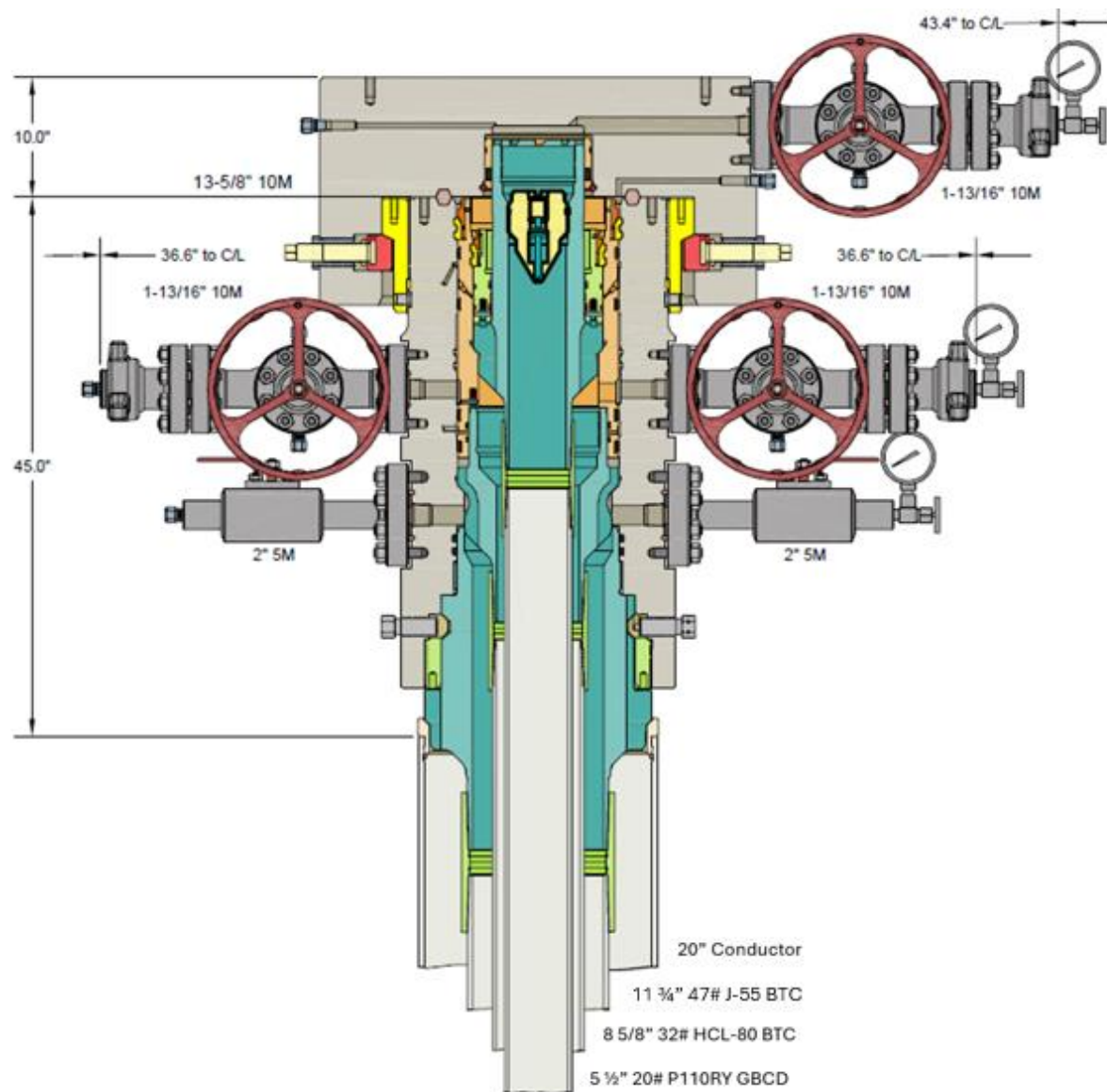
T. 24S., R. 35E Lea County, NM





Drilling Operations Plan
 Gipple Fed Com #154H
 Target: 3rd Bone Spring Carb
 Civitas Permian Operating, LLC
 SHL 175' FSL & 590' FEL, Sec. 33
 BHL 5' FNL & 760' FEL, Sec. 28
 T. 24S., R. 35E Lea County, NM

Multi-bowl Wellhead Design – 5M



CIVITAS

TGM

Azimuths to Grid North

True North: -0.52°

Magnetic North: 5.44°

Magnetic Field

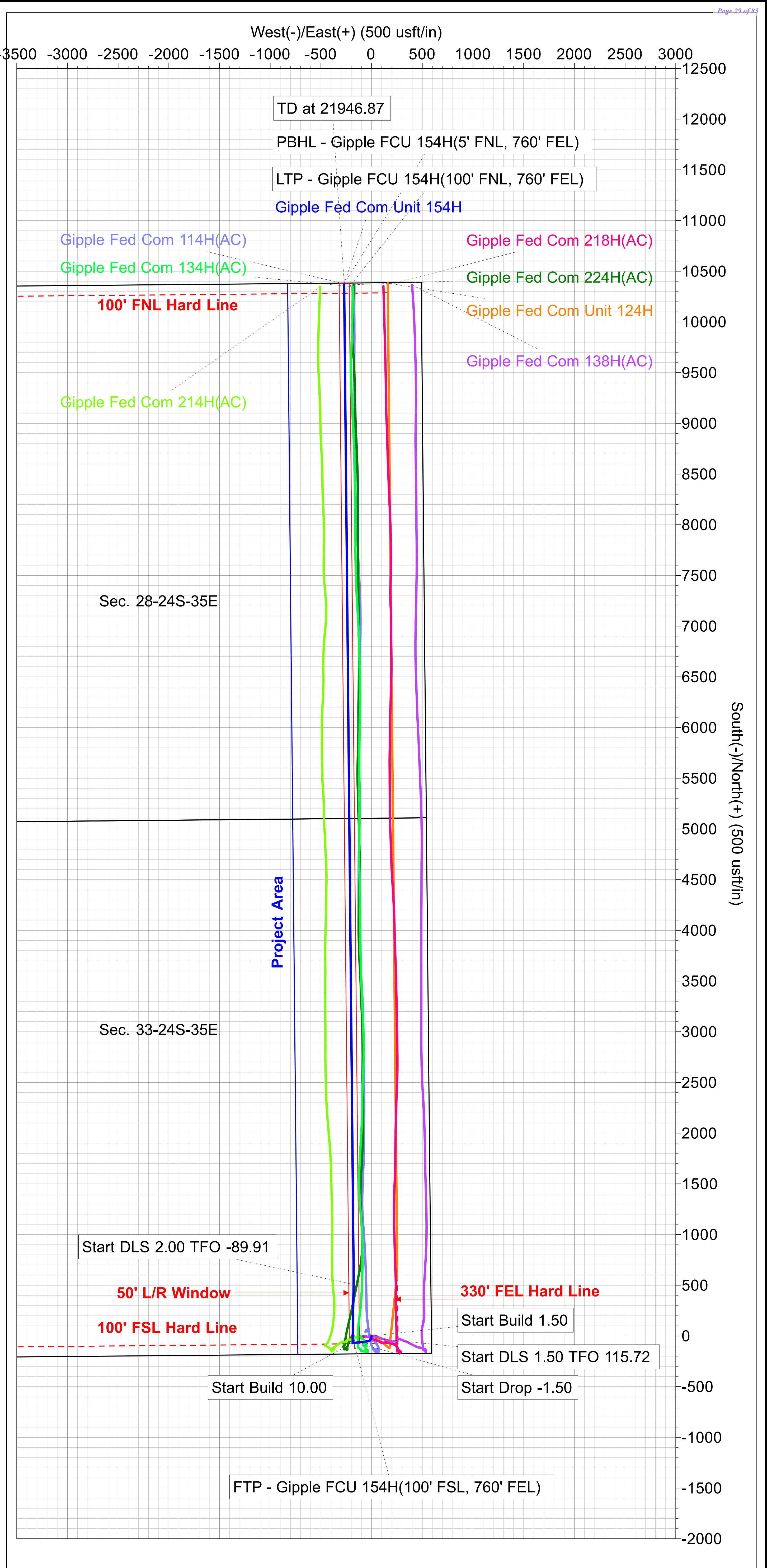
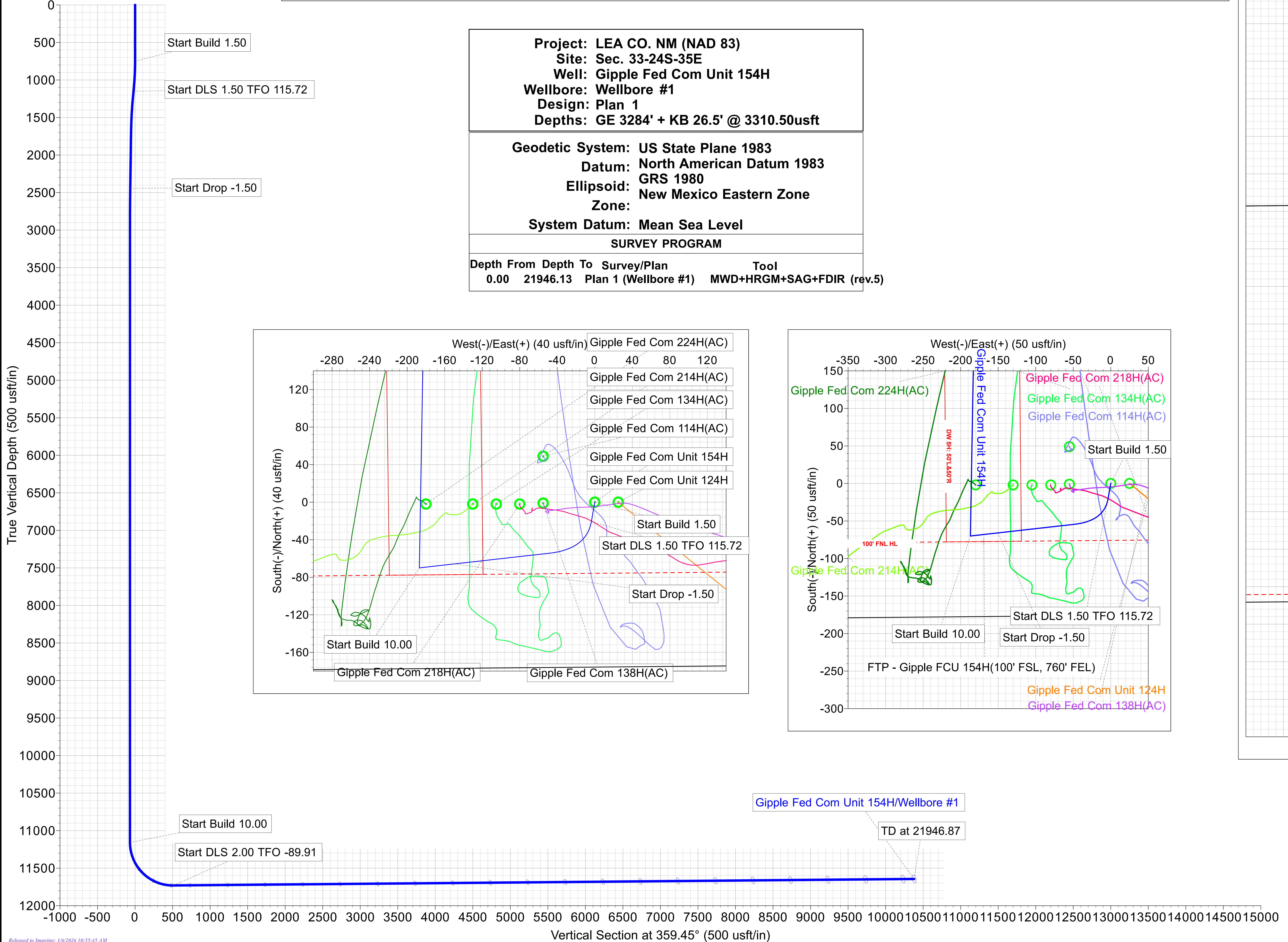
Strength: 47051.0nT

Dip Angle: 59.74°

Date: 7/29/2025

Model: IGRF2020

Gipple Fed Com Unit 154H								
WELL DETAILS: Gipple Fed Com Unit 154H								
ELEVATION: GE 3284' + KB 26.5' @ 3310.50usft								
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude			
0.00	0.00	425912.00	840717.00	32.16721053	-103.36581589			
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
1150.00	6.00	190.00	1149.27	-20.61	-3.63	1.50	190.00	-20.57
1718.34	8.00	263.57	1714.33	-54.35	-48.19	1.50	115.72	-53.89
2454.33	8.00	263.57	2443.15	-65.83	-150.03	0.00	0.00	-64.39
2987.92	0.00	0.00	2975.00	-70.00	-187.00	1.50	180.00	-68.20
11170.92	0.00	0.00	11158.00	-70.00	-187.00	0.00	0.00	-68.20
12075.92	90.50	1.00	11730.94	507.87	-176.91	10.00	1.00	509.54
12153.23	90.50	359.45	11730.26	585.18	-176.61	2.00	-89.91	586.85
21946.87	90.50	359.45	11644.42	10378.00	-270.00	0.00	0.00	10380.11





CIVITAS PERMIAN OPERATING, LLC(SB)

LEA CO. NM (NAD 83)

Sec. 33-24S-35E

Gipple Fed Com Unit 154H

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 154H
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 154H	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 154H					
Well Position	+N/-S	0.00 usft	Northing:	425,912.00 usft	Latitude:	32.16721052
	+E/-W	0.00 usft	Easting:	840,717.00 usft	Longitude:	-103.36581589
Position Uncertainty		0.00 usft	Wellhead Elevation:	3,310.50 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	47,051.04702620

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	7/30/2025			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	21,946.14 Plan 1 (Wellbore #1)	MWD+HRGM+SAG+FDIR (re	OWSG MWD + HRGM + SAG	



Planning Report



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Site:	Sec. 33-24S-35E	North Reference:	Grid
Well:	Gipple Fed Com Unit 154H	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	
1,150.00	6.00	190.00	1,149.27	-20.61	-3.63	1.50	1.50	0.00	190.00	
1,718.34	8.00	263.57	1,714.33	-54.35	-48.19	1.50	0.35	12.94	115.72	
2,454.33	8.00	263.57	2,443.15	-65.83	-150.03	0.00	0.00	0.00	0.00	
2,987.92	0.00	0.00	2,975.00	-70.00	-187.00	1.50	-1.50	0.00	180.00	
11,170.92	0.00	0.00	11,158.00	-70.00	-187.00	0.00	0.00	0.00	0.00	
12,075.92	90.50	1.00	11,730.94	507.87	-176.91	10.00	10.00	0.00	1.00	
12,153.23	90.50	359.45	11,730.26	585.18	-176.61	2.00	0.00	-2.00	-89.91	
21,946.87	90.50	359.45	11,644.42	10,378.00	-270.00	0.00	0.00	0.00	0.00	PBHL - Gipple FCU 1



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 154H	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	190.00	800.00	-0.32	-0.06	-0.32	1.50	1.50	0.00
900.00	2.25	190.00	899.96	-2.90	-0.51	-2.90	1.50	1.50	0.00
920.06	2.55	190.00	920.00	-3.73	-0.66	-3.72	1.50	1.50	0.00
Salado									
1,000.00	3.75	190.00	999.82	-8.05	-1.42	-8.04	1.50	1.50	0.00
1,100.00	5.25	190.00	1,099.51	-15.78	-2.78	-15.75	1.50	1.50	0.00
1,150.00	6.00	190.00	1,149.27	-20.61	-3.63	-20.57	1.50	1.50	0.00
1,200.00	5.71	196.80	1,199.01	-25.56	-4.81	-25.52	1.50	-0.57	13.60
1,300.00	5.42	212.01	1,298.54	-34.33	-8.75	-34.25	1.50	-0.30	15.21
1,400.00	5.52	227.76	1,398.09	-41.57	-14.81	-41.42	1.50	0.11	15.75
1,500.00	6.01	241.92	1,497.59	-47.27	-22.99	-47.04	1.50	0.49	14.16
1,600.00	6.80	253.38	1,596.97	-51.43	-33.29	-51.10	1.50	0.79	11.46
1,700.00	7.80	262.20	1,696.16	-54.04	-45.69	-53.60	1.50	1.00	8.82
1,718.34	8.00	263.57	1,714.33	-54.35	-48.19	-53.89	1.50	1.09	7.47
1,800.00	8.00	263.57	1,795.19	-55.63	-59.49	-55.05	0.00	0.00	0.00
1,900.00	8.00	263.57	1,894.22	-57.19	-73.33	-56.48	0.00	0.00	0.00
2,000.00	8.00	263.57	1,993.24	-58.75	-87.16	-57.91	0.00	0.00	0.00
2,100.00	8.00	263.57	2,092.27	-60.31	-101.00	-59.33	0.00	0.00	0.00
2,200.00	8.00	263.57	2,191.30	-61.87	-114.84	-60.76	0.00	0.00	0.00
2,300.00	8.00	263.57	2,290.32	-63.43	-128.67	-62.19	0.00	0.00	0.00
2,400.00	8.00	263.57	2,389.35	-64.98	-142.51	-63.61	0.00	0.00	0.00
2,454.33	8.00	263.57	2,443.15	-65.83	-150.03	-64.39	0.00	0.00	0.00
2,500.00	7.32	263.57	2,488.41	-66.51	-156.08	-65.01	1.50	-1.50	0.00
2,600.00	5.82	263.57	2,587.75	-67.80	-167.44	-66.19	1.50	-1.50	0.00
2,700.00	4.32	263.57	2,687.36	-68.79	-176.22	-67.09	1.50	-1.50	0.00
2,800.00	2.82	263.57	2,787.16	-69.48	-182.41	-67.73	1.50	-1.50	0.00
2,900.00	1.32	263.57	2,887.09	-69.89	-185.99	-68.10	1.50	-1.50	0.00
2,987.92	0.00	0.00	2,975.00	-70.00	-187.00	-68.20	1.50	-1.50	0.00
3,000.00	0.00	0.00	2,987.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
3,100.00	0.00	0.00	3,087.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
3,200.00	0.00	0.00	3,187.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
3,300.00	0.00	0.00	3,287.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
3,400.00	0.00	0.00	3,387.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
3,500.00	0.00	0.00	3,487.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
3,600.00	0.00	0.00	3,587.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
3,700.00	0.00	0.00	3,687.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
3,800.00	0.00	0.00	3,787.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
3,900.00	0.00	0.00	3,887.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
4,000.00	0.00	0.00	3,987.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
4,100.00	0.00	0.00	4,087.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
4,200.00	0.00	0.00	4,187.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
4,300.00	0.00	0.00	4,287.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
4,400.00	0.00	0.00	4,387.08	-70.00	-187.00	-68.20	0.00	0.00	0.00



Planning Report



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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 154H	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)
4,500.00	0.00	0.00	4,487.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
4,600.00	0.00	0.00	4,587.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
4,700.00	0.00	0.00	4,687.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
4,800.00	0.00	0.00	4,787.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
4,900.00	0.00	0.00	4,887.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
5,000.00	0.00	0.00	4,987.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
5,100.00	0.00	0.00	5,087.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
5,200.00	0.00	0.00	5,187.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
5,217.92	0.00	0.00	5,205.00	-70.00	-187.00	-68.20	0.00	0.00	0.00
DMG/Bell Canyon									
5,300.00	0.00	0.00	5,287.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
5,400.00	0.00	0.00	5,387.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
5,500.00	0.00	0.00	5,487.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
5,600.00	0.00	0.00	5,587.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
5,700.00	0.00	0.00	5,687.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
5,800.00	0.00	0.00	5,787.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
5,900.00	0.00	0.00	5,887.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
6,000.00	0.00	0.00	5,987.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
6,100.00	0.00	0.00	6,087.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
6,140.92	0.00	0.00	6,128.00	-70.00	-187.00	-68.20	0.00	0.00	0.00
Cherry Canyon									
6,200.00	0.00	0.00	6,187.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
6,300.00	0.00	0.00	6,287.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
6,400.00	0.00	0.00	6,387.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
6,500.00	0.00	0.00	6,487.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
6,600.00	0.00	0.00	6,587.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
6,700.00	0.00	0.00	6,687.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
6,800.00	0.00	0.00	6,787.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
6,900.00	0.00	0.00	6,887.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
7,000.00	0.00	0.00	6,987.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
7,100.00	0.00	0.00	7,087.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
7,200.00	0.00	0.00	7,187.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
7,300.00	0.00	0.00	7,287.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
7,400.00	0.00	0.00	7,387.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
7,500.00	0.00	0.00	7,487.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
7,600.00	0.00	0.00	7,587.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
7,656.92	0.00	0.00	7,644.00	-70.00	-187.00	-68.20	0.00	0.00	0.00
Brushy Canyon									
7,700.00	0.00	0.00	7,687.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
7,800.00	0.00	0.00	7,787.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
7,900.00	0.00	0.00	7,887.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
8,000.00	0.00	0.00	7,987.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
8,100.00	0.00	0.00	8,087.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
8,200.00	0.00	0.00	8,187.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
8,300.00	0.00	0.00	8,287.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
8,400.00	0.00	0.00	8,387.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
8,500.00	0.00	0.00	8,487.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
8,600.00	0.00	0.00	8,587.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
8,700.00	0.00	0.00	8,687.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
8,800.00	0.00	0.00	8,787.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
8,802.92	0.00	0.00	8,790.00	-70.00	-187.00	-68.20	0.00	0.00	0.00
Brushy Canyon Lwr									
8,900.00	0.00	0.00	8,887.08	-70.00	-187.00	-68.20	0.00	0.00	0.00



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 154H
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 154H	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)
9,000.00	0.00	0.00	8,987.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
9,002.92	0.00	0.00	8,990.00	-70.00	-187.00	-68.20	0.00	0.00	0.00
Avalon Upr									
9,100.00	0.00	0.00	9,087.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
9,200.00	0.00	0.00	9,187.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
9,270.92	0.00	0.00	9,258.00	-70.00	-187.00	-68.20	0.00	0.00	0.00
Avalon Mid									
9,300.00	0.00	0.00	9,287.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
9,400.00	0.00	0.00	9,387.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
9,500.00	0.00	0.00	9,487.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
9,600.00	0.00	0.00	9,587.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
9,691.92	0.00	0.00	9,679.00	-70.00	-187.00	-68.20	0.00	0.00	0.00
Avalon Lwr									
9,700.00	0.00	0.00	9,687.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
9,800.00	0.00	0.00	9,787.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
9,900.00	0.00	0.00	9,887.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
10,000.00	0.00	0.00	9,987.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
10,100.00	0.00	0.00	10,087.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
10,169.92	0.00	0.00	10,157.00	-70.00	-187.00	-68.20	0.00	0.00	0.00
1st Bone Spring Sand									
10,200.00	0.00	0.00	10,187.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
10,300.00	0.00	0.00	10,287.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
10,344.92	0.00	0.00	10,332.00	-70.00	-187.00	-68.20	0.00	0.00	0.00
2nd Bone Spring Carbonate									
10,400.00	0.00	0.00	10,387.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
10,500.00	0.00	0.00	10,487.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
10,600.00	0.00	0.00	10,587.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
10,700.00	0.00	0.00	10,687.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
10,800.00	0.00	0.00	10,787.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
10,900.00	0.00	0.00	10,887.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
10,961.92	0.00	0.00	10,949.00	-70.00	-187.00	-68.20	0.00	0.00	0.00
2nd Bone Spring Sand									
11,000.00	0.00	0.00	10,987.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
11,100.00	0.00	0.00	11,087.08	-70.00	-187.00	-68.20	0.00	0.00	0.00
11,170.92	0.00	0.00	11,158.00	-70.00	-187.00	-68.20	0.00	0.00	0.00
11,200.00	2.91	1.00	11,187.07	-69.26	-186.99	-67.46	10.00	10.00	0.00
11,250.00	7.91	1.00	11,236.83	-64.55	-186.90	-62.75	10.00	10.00	0.00
11,265.34	9.44	1.00	11,252.00	-62.24	-186.86	-60.44	10.00	10.00	0.00
3rd Bone Spring Carbonate									
11,300.00	12.91	1.00	11,286.00	-55.52	-186.75	-53.73	10.00	10.00	0.00
11,350.00	17.91	1.00	11,334.18	-42.24	-186.52	-40.45	10.00	10.00	0.00
11,400.00	22.91	1.00	11,381.03	-24.82	-186.21	-23.03	10.00	10.00	0.00
11,450.00	27.91	1.00	11,426.18	-3.37	-185.84	-1.59	10.00	10.00	0.00
11,450.93	28.00	1.00	11,427.00	-2.94	-185.83	-1.15	10.00	10.00	0.00
3rd Bone Spring Shale									
11,500.00	32.91	1.00	11,469.29	21.92	-185.40	23.70	10.00	10.00	0.00
11,550.00	37.91	1.00	11,510.03	50.88	-184.89	52.65	10.00	10.00	0.00
11,600.00	42.91	1.00	11,548.09	83.28	-184.32	85.04	10.00	10.00	0.00
11,617.30	44.64	1.00	11,560.58	95.24	-184.12	97.00	10.00	10.00	0.00
FTP - Gipple FCU 154H(100' FSL, 760' FEL)									
11,650.00	47.91	1.00	11,583.18	118.87	-183.70	120.62	10.00	10.00	0.00
11,700.00	52.91	1.00	11,615.03	157.38	-183.03	159.13	10.00	10.00	0.00
11,750.00	57.91	1.00	11,643.41	198.52	-182.31	200.26	10.00	10.00	0.00



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 154H
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 154H	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)	
11,800.00	62.91	1.00	11,668.09	241.98	-181.55	243.71	10.00	10.00	0.00	
11,850.00	67.91	1.00	11,688.89	287.42	-180.76	289.14	10.00	10.00	0.00	
11,900.00	72.91	1.00	11,705.65	334.50	-179.94	336.22	10.00	10.00	0.00	
11,950.00	77.91	1.00	11,718.25	382.87	-179.10	384.57	10.00	10.00	0.00	
12,000.00	82.91	1.00	11,726.57	432.15	-178.24	433.84	10.00	10.00	0.00	
12,050.00	87.91	1.00	11,730.58	481.96	-177.37	483.64	10.00	10.00	0.00	
12,075.92	90.50	1.00	11,730.94	507.87	-176.91	509.54	10.00	10.00	0.00	
12,100.00	90.50	0.52	11,730.73	531.95	-176.59	533.62	2.00	0.00	-2.00	
12,153.23	90.50	359.45	11,730.26	585.18	-176.61	586.85	2.00	0.00	-2.00	
12,200.00	90.50	359.45	11,729.85	631.94	-177.05	633.61	0.00	0.00	0.00	
12,300.00	90.50	359.45	11,728.97	731.94	-178.01	733.61	0.00	0.00	0.00	
12,400.00	90.50	359.45	11,728.10	831.93	-178.96	833.61	0.00	0.00	0.00	
12,500.00	90.50	359.45	11,727.22	931.92	-179.91	933.60	0.00	0.00	0.00	
12,600.00	90.50	359.45	11,726.34	1,031.91	-180.87	1,033.60	0.00	0.00	0.00	
12,700.00	90.50	359.45	11,725.47	1,131.90	-181.82	1,133.60	0.00	0.00	0.00	
12,800.00	90.50	359.45	11,724.59	1,231.89	-182.77	1,233.59	0.00	0.00	0.00	
12,900.00	90.50	359.45	11,723.71	1,331.89	-183.73	1,333.59	0.00	0.00	0.00	
13,000.00	90.50	359.45	11,722.84	1,431.88	-184.68	1,433.58	0.00	0.00	0.00	
13,100.00	90.50	359.45	11,721.96	1,531.87	-185.64	1,533.58	0.00	0.00	0.00	
13,200.00	90.50	359.45	11,721.09	1,631.86	-186.59	1,633.58	0.00	0.00	0.00	
13,300.00	90.50	359.45	11,720.21	1,731.85	-187.54	1,733.57	0.00	0.00	0.00	
13,400.00	90.50	359.45	11,719.33	1,831.84	-188.50	1,833.57	0.00	0.00	0.00	
13,500.00	90.50	359.45	11,718.46	1,931.84	-189.45	1,933.56	0.00	0.00	0.00	
13,600.00	90.50	359.45	11,717.58	2,031.83	-190.40	2,033.56	0.00	0.00	0.00	
13,700.00	90.50	359.45	11,716.70	2,131.82	-191.36	2,133.56	0.00	0.00	0.00	
13,800.00	90.50	359.45	11,715.83	2,231.81	-192.31	2,233.55	0.00	0.00	0.00	
13,900.00	90.50	359.45	11,714.95	2,331.80	-193.26	2,333.55	0.00	0.00	0.00	
14,000.00	90.50	359.45	11,714.07	2,431.79	-194.22	2,433.55	0.00	0.00	0.00	
14,100.00	90.50	359.45	11,713.20	2,531.78	-195.17	2,533.54	0.00	0.00	0.00	
14,200.00	90.50	359.45	11,712.32	2,631.78	-196.13	2,633.54	0.00	0.00	0.00	
14,300.00	90.50	359.45	11,711.44	2,731.77	-197.08	2,733.53	0.00	0.00	0.00	
14,400.00	90.50	359.45	11,710.57	2,831.76	-198.03	2,833.53	0.00	0.00	0.00	
14,500.00	90.50	359.45	11,709.69	2,931.75	-198.99	2,933.53	0.00	0.00	0.00	
14,600.00	90.50	359.45	11,708.81	3,031.74	-199.94	3,033.52	0.00	0.00	0.00	
14,700.00	90.50	359.45	11,707.94	3,131.73	-200.89	3,133.52	0.00	0.00	0.00	
14,800.00	90.50	359.45	11,707.06	3,231.73	-201.85	3,233.51	0.00	0.00	0.00	
14,900.00	90.50	359.45	11,706.19	3,331.72	-202.80	3,333.51	0.00	0.00	0.00	
15,000.00	90.50	359.45	11,705.31	3,431.71	-203.75	3,433.51	0.00	0.00	0.00	
15,100.00	90.50	359.45	11,704.43	3,531.70	-204.71	3,533.50	0.00	0.00	0.00	
15,200.00	90.50	359.45	11,703.56	3,631.69	-205.66	3,633.50	0.00	0.00	0.00	
15,300.00	90.50	359.45	11,702.68	3,731.68	-206.61	3,733.50	0.00	0.00	0.00	
15,400.00	90.50	359.45	11,701.80	3,831.68	-207.57	3,833.49	0.00	0.00	0.00	
15,500.00	90.50	359.45	11,700.93	3,931.67	-208.52	3,933.49	0.00	0.00	0.00	
15,600.00	90.50	359.45	11,700.05	4,031.66	-209.48	4,033.48	0.00	0.00	0.00	
15,700.00	90.50	359.45	11,699.17	4,131.65	-210.43	4,133.48	0.00	0.00	0.00	
15,800.00	90.50	359.45	11,698.30	4,231.64	-211.38	4,233.48	0.00	0.00	0.00	
15,900.00	90.50	359.45	11,697.42	4,331.63	-212.34	4,333.47	0.00	0.00	0.00	
16,000.00	90.50	359.45	11,696.54	4,431.63	-213.29	4,433.47	0.00	0.00	0.00	
16,100.00	90.50	359.45	11,695.67	4,531.62	-214.24	4,533.46	0.00	0.00	0.00	
16,200.00	90.50	359.45	11,694.79	4,631.61	-215.20	4,633.46	0.00	0.00	0.00	
16,300.00	90.50	359.45	11,693.91	4,731.60	-216.15	4,733.46	0.00	0.00	0.00	
16,400.00	90.50	359.45	11,693.04	4,831.59	-217.10	4,833.45	0.00	0.00	0.00	
16,500.00	90.50	359.45	11,692.16	4,931.58	-218.06	4,933.45	0.00	0.00	0.00	
16,600.00	90.50	359.45	11,691.28	5,031.58	-219.01	5,033.45	0.00	0.00	0.00	



Planning Report



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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 154H	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)	
16,700.00	90.50	359.45	11,690.41	5,131.57	-219.97	5,133.44	0.00	0.00	0.00	
16,800.00	90.50	359.45	11,689.53	5,231.56	-220.92	5,233.44	0.00	0.00	0.00	
16,900.00	90.50	359.45	11,688.66	5,331.55	-221.87	5,333.43	0.00	0.00	0.00	
17,000.00	90.50	359.45	11,687.78	5,431.54	-222.83	5,433.43	0.00	0.00	0.00	
17,100.00	90.50	359.45	11,686.90	5,531.53	-223.78	5,533.43	0.00	0.00	0.00	
17,200.00	90.50	359.45	11,686.03	5,631.52	-224.73	5,633.42	0.00	0.00	0.00	
17,300.00	90.50	359.45	11,685.15	5,731.52	-225.69	5,733.42	0.00	0.00	0.00	
17,400.00	90.50	359.45	11,684.27	5,831.51	-226.64	5,833.41	0.00	0.00	0.00	
17,500.00	90.50	359.45	11,683.40	5,931.50	-227.59	5,933.41	0.00	0.00	0.00	
17,600.00	90.50	359.45	11,682.52	6,031.49	-228.55	6,033.41	0.00	0.00	0.00	
17,700.00	90.50	359.45	11,681.64	6,131.48	-229.50	6,133.40	0.00	0.00	0.00	
17,800.00	90.50	359.45	11,680.77	6,231.47	-230.46	6,233.40	0.00	0.00	0.00	
17,900.00	90.50	359.45	11,679.89	6,331.47	-231.41	6,333.40	0.00	0.00	0.00	
18,000.00	90.50	359.45	11,679.01	6,431.46	-232.36	6,433.39	0.00	0.00	0.00	
18,100.00	90.50	359.45	11,678.14	6,531.45	-233.32	6,533.39	0.00	0.00	0.00	
18,200.00	90.50	359.45	11,677.26	6,631.44	-234.27	6,633.38	0.00	0.00	0.00	
18,300.00	90.50	359.45	11,676.38	6,731.43	-235.22	6,733.38	0.00	0.00	0.00	
18,400.00	90.50	359.45	11,675.51	6,831.42	-236.18	6,833.38	0.00	0.00	0.00	
18,500.00	90.50	359.45	11,674.63	6,931.42	-237.13	6,933.37	0.00	0.00	0.00	
18,600.00	90.50	359.45	11,673.76	7,031.41	-238.08	7,033.37	0.00	0.00	0.00	
18,700.00	90.50	359.45	11,672.88	7,131.40	-239.04	7,133.36	0.00	0.00	0.00	
18,800.00	90.50	359.45	11,672.00	7,231.39	-239.99	7,233.36	0.00	0.00	0.00	
18,900.00	90.50	359.45	11,671.13	7,331.38	-240.94	7,333.36	0.00	0.00	0.00	
19,000.00	90.50	359.45	11,670.25	7,431.37	-241.90	7,433.35	0.00	0.00	0.00	
19,100.00	90.50	359.45	11,669.37	7,531.37	-242.85	7,533.35	0.00	0.00	0.00	
19,200.00	90.50	359.45	11,668.50	7,631.36	-243.81	7,633.35	0.00	0.00	0.00	
19,300.00	90.50	359.45	11,667.62	7,731.35	-244.76	7,733.34	0.00	0.00	0.00	
19,400.00	90.50	359.45	11,666.74	7,831.34	-245.71	7,833.34	0.00	0.00	0.00	
19,500.00	90.50	359.45	11,665.87	7,931.33	-246.67	7,933.33	0.00	0.00	0.00	
19,600.00	90.50	359.45	11,664.99	8,031.32	-247.62	8,033.33	0.00	0.00	0.00	
19,700.00	90.50	359.45	11,664.11	8,131.32	-248.57	8,133.33	0.00	0.00	0.00	
19,800.00	90.50	359.45	11,663.24	8,231.31	-249.53	8,233.32	0.00	0.00	0.00	
19,900.00	90.50	359.45	11,662.36	8,331.30	-250.48	8,333.32	0.00	0.00	0.00	
20,000.00	90.50	359.45	11,661.48	8,431.29	-251.43	8,433.32	0.00	0.00	0.00	
20,100.00	90.50	359.45	11,660.61	8,531.28	-252.39	8,533.31	0.00	0.00	0.00	
20,200.00	90.50	359.45	11,659.73	8,631.27	-253.34	8,633.31	0.00	0.00	0.00	
20,300.00	90.50	359.45	11,658.85	8,731.26	-254.30	8,733.30	0.00	0.00	0.00	
20,400.00	90.50	359.45	11,657.98	8,831.26	-255.25	8,833.30	0.00	0.00	0.00	
20,500.00	90.50	359.45	11,657.10	8,931.25	-256.20	8,933.30	0.00	0.00	0.00	
20,600.00	90.50	359.45	11,656.23	9,031.24	-257.16	9,033.29	0.00	0.00	0.00	
20,700.00	90.50	359.45	11,655.35	9,131.23	-258.11	9,133.29	0.00	0.00	0.00	
20,800.00	90.50	359.45	11,654.47	9,231.22	-259.06	9,233.28	0.00	0.00	0.00	
20,900.00	90.50	359.45	11,653.60	9,331.21	-260.02	9,333.28	0.00	0.00	0.00	
21,000.00	90.50	359.45	11,652.72	9,431.21	-260.97	9,433.28	0.00	0.00	0.00	
21,100.00	90.50	359.45	11,651.84	9,531.20	-261.92	9,533.27	0.00	0.00	0.00	
21,200.00	90.50	359.45	11,650.97	9,631.19	-262.88	9,633.27	0.00	0.00	0.00	
21,300.00	90.50	359.45	11,650.09	9,731.18	-263.83	9,733.27	0.00	0.00	0.00	
21,400.00	90.50	359.45	11,649.21	9,831.17	-264.78	9,833.26	0.00	0.00	0.00	
21,500.00	90.50	359.45	11,648.34	9,931.16	-265.74	9,933.26	0.00	0.00	0.00	
21,600.00	90.50	359.45	11,647.46	10,031.16	-266.69	10,033.25	0.00	0.00	0.00	
21,700.00	90.50	359.45	11,646.58	10,131.15	-267.65	10,133.25	0.00	0.00	0.00	
21,800.00	90.50	359.45	11,645.71	10,231.14	-268.60	10,233.25	0.00	0.00	0.00	
21,851.87	90.50	359.45	11,645.25	10,283.01	-269.09	10,285.12	0.00	0.00	0.00	



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 154H
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 154H	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)
LTP - Gipple FCU 154H(100' FNL, 760' FEL)									
21,900.00	90.50	359.45	11,644.83	10,331.13	-269.55	10,333.24	0.00	0.00	0.00
21,946.87	90.50	359.45	11,644.42	10,378.00	-270.00	10,380.11	0.00	0.00	0.00
PBHL - Gipple FCU 154H(5' FNL, 760' FEL)									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP - Gipple FCU 154H(- plan misses target center by 0.84usft at 21851.87usft MD (11645.25 TVD, 10283.01 N, -269.09 E) - Point	0.00	0.00	11,644.42	10,283.00	-269.00	436,195.00	840,448.00	32.19548033	-103.36638643
PBHL - Gipple FCU 154H(- plan hits target center - Point	0.00	0.00	11,644.42	10,378.00	-270.00	436,290.00	840,447.00	32.19574147	-103.36638690
FTP - Gipple FCU 154H(- plan misses target center by 245.60usft at 11617.30usft MD (11560.58 TVD, 95.24 N, -184.12 E) - Point	0.00	0.00	11,735.00	-77.00	-169.00	425,835.00	840,548.00	32.16700306	-103.36636422

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
511.00	511.00	Rustler				
920.06	920.00	Salado				
5,217.92	5,205.00	DMG/Bell Canyon				
6,140.92	6,128.00	Cherry Canyon				
7,656.92	7,644.00	Brushy Canyon				
8,802.92	8,790.00	Brushy Canyon Lwr				
9,002.92	8,990.00	Avalon Upr				
9,270.92	9,258.00	Avalon Mid				
9,691.92	9,679.00	Avalon Lwr				
10,169.92	10,157.00	1st Bone Spring Sand				
10,344.92	10,332.00	2nd Bone Spring Carbonate				
10,961.92	10,949.00	2nd Bone Spring Sand				
11,265.34	11,252.00	3rd Bone Spring Carbonate				
11,450.93	11,427.00	3rd Bone Spring Shale				



CIVITAS PERMIAN OPERATING, LLC(SB)

LEA CO. NM (NAD 83)

Sec. 33-24S-35E

Gipple Fed Com Unit 154H

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 154H
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 154H	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	21,946.14	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	798.91	68.80	63.18	12.245	CC, ES
Gipple Fed Com 114H(AC) - Wellbore #1 - Wellbore #1	10,200.00	10,236.74	176.81	127.62	3.595	SF
Gipple Fed Com 134H(AC) - Wellbore #1 - Wellbore #1	2,038.97	2,031.07	35.56	23.08	2.850	CC, ES
Gipple Fed Com 134H(AC) - Wellbore #1 - Wellbore #1	11,280.23	11,286.35	88.49	34.64	1.643	Collision Risk Procedures R
Gipple Fed Com 138H(AC) - Wellbore #1 - Wellbore #1	1,684.88	1,680.18	43.33	32.76	4.100	CC
Gipple Fed Com 138H(AC) - Wellbore #1 - Wellbore #1	1,700.00	1,695.08	43.36	32.72	4.072	ES
Gipple Fed Com 138H(AC) - Wellbore #1 - Wellbore #1	21,946.87	22,513.00	830.14	576.12	3.268	SF
Gipple Fed Com 214H(AC) - Wellbore #1 - Wellbore #1	2,988.99	2,977.45	37.55	20.13	2.156	CC
Gipple Fed Com 214H(AC) - Wellbore #1 - Wellbore #1	3,000.00	2,988.42	37.58	20.11	2.151	ES
Gipple Fed Com 214H(AC) - Wellbore #1 - Wellbore #1	3,100.00	3,088.18	38.33	20.39	2.137	SF
Gipple Fed Com 218H(AC) - Wellbore #1 - Wellbore #1	1,825.28	1,819.67	49.34	38.08	4.382	CC, ES
Gipple Fed Com 218H(AC) - Wellbore #1 - Wellbore #1	1,900.00	1,893.69	50.34	38.69	4.323	SF
Gipple Fed Com 224H(AC) - Wellbore #1 - Wellbore #1	2,834.74	2,824.20	45.53	27.31	2.498	CC, ES
Gipple Fed Com 224H(AC) - Wellbore #1 - Wellbore #1	9,200.00	9,195.59	76.00	29.17	1.623	Collision Risk Procedures R
Gipple Fed Com Unit 124H - Wellbore #1 - Plan 1	700.00	700.00	25.00	18.91	4.105	CC
Gipple Fed Com Unit 124H - Wellbore #1 - Plan 1	700.04	700.04	25.00	18.91	4.105	ES
Gipple Fed Com Unit 124H - Wellbore #1 - Plan 1	21,946.87	21,450.74	698.14	503.14	3.580	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				Offset Wellbore Centre		Distance					Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-48.30	49.00	-55.00	73.68					
100.00	100.00	98.57	98.57	0.50	0.15	-48.39	48.88	-55.04	73.61	72.96	0.66	112.343		
200.00	200.00	198.56	198.56	1.31	0.35	-48.65	48.54	-55.17	73.48	71.82	1.66	44.249		
300.00	300.00	298.73	298.73	1.79	0.70	-48.77	48.38	-55.20	73.40	70.91	2.49	29.454		
400.00	400.00	399.15	399.15	2.17	1.05	-48.86	47.89	-54.82	72.79	69.57	3.22	22.583		
500.00	500.00	499.44	499.43	2.49	1.41	-48.95	47.08	-54.07	71.70	67.79	3.90	18.372		
600.00	600.00	599.32	599.30	2.78	1.77	-48.94	46.29	-53.14	70.48	65.93	4.55	15.502		
700.00	700.00	699.20	699.17	3.04	2.12	-48.72	45.79	-52.15	69.40	64.24	5.16	13.441		
793.75	793.75	792.68	792.66	3.15	2.45	122.15	45.72	-51.23	68.97	63.38	5.59	12.337		
800.00	800.00	798.91	798.88	3.15	2.47	122.00	45.72	-51.19	68.80	63.18	5.62	12.245	CC, ES	
900.00	899.96	898.65	898.62	3.43	2.82	123.82	45.49	-50.91	69.87	63.67	6.20	11.265		

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 154H
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 154H	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
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
1,000.00	999.82	998.40	998.37	3.69	3.18	126.86	45.05	-51.08	72.71	65.93	6.78	10.724	
1,100.00	1,099.51	1,097.59	1,097.56	3.94	3.52	130.81	44.79	-51.91	77.99	70.64	7.35	10.610	
1,200.00	1,199.01	1,197.04	1,196.99	4.03	3.86	128.32	44.50	-53.35	85.24	77.44	7.80	10.934	
1,300.00	1,298.54	1,296.74	1,296.68	4.23	4.21	117.32	44.05	-55.00	91.02	82.64	8.38	10.860	
1,400.00	1,398.09	1,396.54	1,396.47	4.45	4.56	106.01	43.50	-56.58	94.77	85.80	8.97	10.563	
1,500.00	1,497.59	1,496.29	1,496.21	4.66	4.91	96.84	42.89	-57.99	96.71	87.16	9.56	10.121	
1,600.00	1,596.97	1,595.68	1,595.59	4.87	5.26	91.12	42.29	-59.27	97.25	87.13	10.12	9.612	
1,700.00	1,696.16	1,694.99	1,694.89	5.06	5.61	89.09	41.89	-60.43	97.06	86.40	10.66	9.104	
1,731.34	1,727.21	1,726.04	1,725.94	5.09	5.72	90.98	41.77	-60.72	96.98	86.17	10.81	8.971	
1,800.00	1,795.19	1,793.42	1,793.31	5.18	5.95	95.40	41.79	-61.10	97.43	86.30	11.13	8.756	
1,900.00	1,894.22	1,891.36	1,891.25	5.36	6.28	103.23	42.68	-61.00	100.63	89.00	11.63	8.651	
2,000.00	1,993.24	1,990.36	1,990.23	5.54	6.62	110.65	44.15	-60.53	106.30	94.16	12.14	8.756	
2,100.00	2,092.27	2,089.11	2,088.97	5.72	6.96	117.24	45.52	-60.05	113.49	100.84	12.65	8.973	
2,200.00	2,191.30	2,187.44	2,187.29	5.91	7.29	123.07	47.10	-59.25	122.35	109.20	13.15	9.301	
2,300.00	2,290.32	2,286.06	2,285.88	6.09	7.63	128.14	48.90	-58.15	132.67	119.00	13.67	9.708	
2,400.00	2,389.35	2,384.67	2,384.47	6.28	7.97	132.45	50.84	-56.98	144.02	129.84	14.18	10.156	
2,500.00	2,488.41	2,484.07	2,483.85	6.40	8.32	136.10	52.74	-55.98	155.73	141.09	14.64	10.638	
2,600.00	2,587.75	2,582.31	2,582.06	6.58	8.66	138.73	54.78	-54.96	166.42	151.24	15.17	10.969	
2,700.00	2,687.36	2,680.78	2,680.48	6.75	9.00	140.43	57.36	-53.69	175.94	160.24	15.70	11.206	
2,800.00	2,787.16	2,780.12	2,779.77	6.91	9.35	141.42	60.40	-52.17	184.03	167.80	16.23	11.337	
2,900.00	2,887.09	2,882.03	2,881.64	7.08	9.71	142.31	61.98	-49.92	189.53	172.75	16.77	11.300	
3,000.00	2,987.08	2,983.90	2,983.45	7.18	10.06	47.04	60.74	-46.62	191.84	174.60	17.24	11.128	
3,100.00	3,087.08	3,085.59	3,085.03	7.28	10.42	48.42	57.85	-42.90	192.64	174.94	17.70	10.883	
3,200.00	3,187.08	3,187.09	3,186.36	7.39	10.77	50.16	53.28	-39.22	192.45	174.29	18.16	10.597	
3,300.00	3,287.08	3,288.09	3,287.17	7.49	11.13	51.96	48.23	-35.87	191.89	173.27	18.62	10.308	
3,400.00	3,387.08	3,388.10	3,386.98	7.59	11.48	53.86	42.64	-32.77	190.98	171.92	19.07	10.016	
3,500.00	3,487.08	3,489.01	3,487.69	7.69	11.84	55.78	36.96	-29.74	190.20	170.68	19.52	9.742	
3,600.00	3,587.08	3,589.93	3,588.34	7.79	12.19	57.97	30.17	-26.91	188.87	168.89	19.98	9.453	
3,700.00	3,687.08	3,689.85	3,687.94	7.89	12.55	60.35	22.74	-24.09	187.47	167.04	20.43	9.176	
3,800.00	3,787.08	3,789.51	3,787.24	7.99	12.91	62.92	14.85	-21.05	186.39	165.51	20.88	8.926	
3,831.86	3,818.95	3,819.85	3,817.45	8.02	13.02	63.79	12.25	-19.93	186.22	165.20	21.02	8.860	
3,900.00	3,887.08	3,883.78	3,881.07	8.08	13.25	65.69	6.97	-16.59	187.04	165.74	21.30	8.780	
4,000.00	3,987.08	3,979.72	3,976.45	8.18	13.59	68.64	-0.63	-9.61	190.69	168.97	21.72	8.779	
4,100.00	4,087.08	4,076.55	4,072.62	8.28	13.94	71.56	-8.00	-1.09	196.41	174.26	22.15	8.869	
4,200.00	4,187.08	4,180.94	4,176.31	8.38	14.33	74.56	-16.24	7.65	202.15	179.51	22.64	8.929	
4,300.00	4,287.08	4,291.67	4,286.40	8.48	14.73	77.83	-26.97	12.59	204.18	181.02	23.16	8.816	
4,400.00	4,387.08	4,398.16	4,392.25	8.57	15.11	81.02	-38.51	12.25	201.83	178.20	23.63	8.542	
4,500.00	4,487.08	4,498.15	4,491.94	8.67	15.47	83.01	-45.84	9.92	198.49	174.42	24.08	8.244	
4,600.00	4,587.08	4,595.54	4,589.25	8.77	15.81	83.68	-48.46	7.49	195.72	171.20	24.51	7.984	
4,671.89	4,658.97	4,663.76	4,657.47	8.84	16.04	83.68	-48.52	6.82	195.01	170.20	24.82	7.858	
4,700.00	4,687.08	4,690.15	4,683.86	8.86	16.13	83.58	-48.19	6.90	195.13	170.20	24.93	7.827	
4,800.00	4,787.08	4,783.97	4,777.61	8.96	16.45	82.89	-45.57	8.92	197.60	172.27	25.33	7.801	
4,900.00	4,887.08	4,879.75	4,873.21	9.06	16.78	82.11	-42.20	13.67	202.97	177.23	25.74	7.886	
5,000.00	4,987.08	4,981.51	4,974.79	9.15	17.14	82.20	-41.66	19.79	209.00	182.80	26.20	7.978	
5,100.00	5,087.08	5,086.27	5,079.40	9.25	17.51	83.13	-44.54	24.35	212.97	186.29	26.68	7.982	
5,200.00	5,187.08	5,187.67	5,180.63	9.34	17.88	84.54	-49.53	27.32	215.35	188.21	27.14	7.935	
5,300.00	5,287.08	5,288.11	5,280.93	9.44	18.24	85.81	-54.11	29.97	217.60	190.01	27.59	7.887	
5,400.00	5,387.08	5,386.96	5,379.68	9.53	18.60	86.85	-57.91	32.59	220.01	191.97	28.03	7.848	
5,500.00	5,487.08	5,484.77	5,477.37	9.63	18.95	87.79	-61.41	35.88	223.20	194.73	28.47	7.840	
5,600.00	5,587.08	5,582.90	5,575.26	9.72	19.31	89.18	-66.76	40.08	227.34	198.43	28.91	7.864	
5,700.00	5,687.08	5,682.45	5,674.48	9.81	19.67	90.81	-73.28	44.67	231.96	202.60	29.36	7.902	
5,800.00	5,787.08	5,781.99	5,773.70	9.91	20.03	92.32	-79.57	49.58	237.07	207.27	29.80	7.954	

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 154H
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 154H	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		Minimum Separation (usft)	Separation Factor	Warning
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,900.00	5,887.08	5,884.85	5,876.29	10.00	20.41	93.79	-85.95	53.57	241.28	211.01	30.27	7.970	
6,000.00	5,987.08	5,984.55	5,975.74	10.09	20.77	95.19	-92.17	57.05	245.25	214.53	30.72	7.983	
6,100.00	6,087.08	6,084.96	6,075.91	10.19	21.14	96.50	-98.21	60.43	249.22	218.05	31.17	7.995	
6,200.00	6,187.08	6,185.19	6,175.93	10.28	21.50	97.65	-103.66	63.59	253.02	221.40	31.62	8.001	
6,300.00	6,287.08	6,285.13	6,275.69	10.37	21.87	98.70	-108.81	66.74	256.88	224.81	32.07	8.009	
6,400.00	6,387.08	6,386.66	6,377.00	10.47	22.24	99.93	-114.91	69.51	260.56	228.03	32.53	8.009	
6,500.00	6,487.08	6,487.25	6,477.21	10.56	22.61	101.70	-123.43	71.07	263.68	230.69	32.98	7.994	
6,600.00	6,587.08	6,586.69	6,576.26	10.65	22.97	103.45	-132.08	72.51	267.00	233.57	33.43	7.986	
6,700.00	6,687.08	6,688.14	6,677.33	10.74	23.34	105.21	-140.88	73.78	270.37	236.48	33.89	7.978	
6,800.00	6,787.08	6,794.64	6,783.50	10.84	23.73	106.89	-149.14	73.67	272.42	238.06	34.36	7.929	
6,900.00	6,887.08	6,903.06	6,891.75	10.93	24.11	108.13	-154.49	71.02	271.57	236.75	34.81	7.801	
7,000.00	6,987.08	7,003.82	6,992.42	11.02	24.46	108.86	-157.04	67.76	269.30	234.06	35.25	7.640	
7,100.00	7,087.08	7,110.11	7,098.62	11.11	24.81	109.01	-156.42	63.77	265.56	229.89	35.67	7.444	
7,200.00	7,187.08	7,213.18	7,201.50	11.20	25.15	108.53	-152.38	58.80	259.73	223.64	36.09	7.197	
7,300.00	7,287.08	7,311.83	7,299.95	11.29	25.48	107.97	-148.22	54.09	253.86	217.35	36.52	6.952	
7,400.00	7,387.08	7,411.12	7,399.05	11.38	25.81	107.39	-144.11	49.66	248.35	211.41	36.94	6.722	
7,500.00	7,487.08	7,510.78	7,498.54	11.47	26.14	106.79	-140.08	45.29	242.97	205.60	37.37	6.502	
7,600.00	7,587.08	7,610.07	7,597.66	11.57	26.47	106.26	-136.47	40.93	237.73	199.94	37.80	6.289	
7,700.00	7,687.08	7,708.43	7,695.89	11.66	26.79	105.88	-133.65	36.82	232.92	194.69	38.23	6.093	
7,800.00	7,787.08	7,805.95	7,793.33	11.75	27.12	105.75	-132.13	33.25	228.98	190.32	38.66	5.923	
7,900.00	7,887.08	7,903.30	7,890.65	11.84	27.45	105.87	-131.84	30.49	226.17	187.08	39.09	5.785	
8,000.00	7,987.08	8,001.26	7,988.59	11.93	27.79	106.18	-132.52	28.51	224.42	184.89	39.53	5.678	
8,100.00	8,087.08	8,099.21	8,086.52	12.02	28.13	106.49	-133.44	27.33	223.52	183.57	39.96	5.594	
8,164.61	8,151.69	8,162.88	8,150.19	12.08	28.35	106.38	-133.00	27.35	223.42	183.18	40.24	5.553	
8,200.00	8,187.08	8,197.97	8,185.27	12.11	28.47	106.27	-132.59	27.50	223.44	183.06	40.39	5.533	
8,300.00	8,287.08	8,296.34	8,283.63	12.20	28.80	105.88	-131.27	28.36	223.91	183.09	40.82	5.486	
8,400.00	8,387.08	8,394.87	8,382.15	12.29	29.14	105.53	-130.27	29.88	225.13	183.88	41.24	5.458	
8,500.00	8,487.08	8,493.25	8,480.50	12.38	29.48	105.24	-129.66	31.96	227.00	185.32	41.68	5.447	
8,600.00	8,587.08	8,593.41	8,580.63	12.47	29.83	104.99	-129.26	34.40	229.25	187.14	42.11	5.444	
8,700.00	8,687.08	8,693.17	8,680.36	12.56	30.18	104.76	-128.96	36.75	231.45	188.90	42.55	5.439	
8,800.00	8,787.08	8,792.05	8,779.21	12.65	30.53	104.58	-128.88	39.32	233.94	190.95	42.98	5.442	
8,900.00	8,887.08	8,891.11	8,878.23	12.73	30.88	104.54	-129.45	42.15	236.85	193.43	43.42	5.455	
9,000.00	8,987.08	8,989.64	8,976.69	12.82	31.23	104.77	-131.18	45.11	240.21	196.35	43.86	5.477	
9,100.00	9,087.08	9,087.82	9,074.75	12.91	31.58	105.33	-134.57	48.60	244.53	200.24	44.29	5.521	
9,200.00	9,187.08	9,193.45	9,180.28	13.00	31.96	106.03	-138.35	50.95	247.63	202.87	44.76	5.533	
9,300.00	9,287.08	9,294.79	9,281.58	13.09	32.32	106.60	-141.24	51.97	249.40	204.19	45.20	5.517	
9,400.00	9,387.08	9,394.34	9,381.06	13.18	32.68	107.33	-144.76	52.64	251.07	205.43	45.65	5.501	
9,500.00	9,487.08	9,495.56	9,482.19	13.27	33.04	108.19	-148.93	53.22	252.88	206.79	46.09	5.487	
9,600.00	9,587.08	9,601.98	9,588.58	13.36	33.41	108.75	-151.37	52.73	253.18	206.64	46.54	5.440	
9,700.00	9,687.08	9,705.08	9,691.64	13.45	33.77	109.14	-152.29	50.04	250.99	204.01	46.98	5.343	
9,800.00	9,787.08	9,806.05	9,792.53	13.53	34.12	109.89	-154.51	46.58	248.50	201.08	47.41	5.241	
9,900.00	9,887.08	9,929.12	9,915.26	13.62	34.54	110.99	-156.64	38.77	243.64	195.84	47.80	5.097	
10,000.00	9,987.08	10,077.55	10,057.28	13.71	35.00	105.83	-126.63	12.69	219.60	171.86	47.74	4.600	
10,100.00	10,087.08	10,166.61	10,131.37	13.80	35.24	93.28	-80.52	-3.62	189.30	140.83	48.47	3.906	
10,196.97	10,184.06	10,234.73	10,182.56	13.88	35.42	79.13	-36.67	-13.37	176.80	127.62	49.18	3.595	
10,200.00	10,187.08	10,236.74	10,184.02	13.89	35.43	78.69	-35.32	-13.63	176.81	127.62	49.19	3.595 SF	
10,300.00	10,287.08	10,302.14	10,230.50	13.98	35.60	64.21	10.01	-21.43	191.96	142.89	49.07	3.912	
10,400.00	10,387.08	10,361.74	10,270.85	14.06	35.76	52.21	53.40	-27.88	231.76	183.43	48.33	4.796	
10,500.00	10,487.08	10,413.33	10,303.50	14.15	35.91	43.30	92.94	-33.47	288.57	241.12	47.46	6.081	
10,600.00	10,587.08	10,455.71	10,328.46	14.24	36.02	37.10	126.86	-38.13	356.41	309.72	46.69	7.633	
10,700.00	10,687.08	10,489.62	10,346.91	14.33	36.12	32.87	155.10	-41.52	431.90	385.81	46.09	9.370	
10,800.00	10,787.08	10,533.00	10,368.37	14.41	36.25	28.36	192.61	-45.26	512.95	467.00	45.94	11.165	

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 154H
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 154H	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						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)				
10,900.00	10,887.08	10,547.86	10,375.26	14.50	36.29	27.03	205.73	-46.34	596.86	551.35	45.52	13.113		
11,000.00	10,987.08	10,579.43	10,389.55	14.59	36.39	24.57	233.82	-48.08	683.27	637.75	45.53	15.009		
11,100.00	11,087.08	10,609.10	10,402.58	14.68	36.47	22.67	260.46	-49.00	771.20	725.59	45.61	16.909		
11,200.00	11,187.07	10,627.00	10,410.24	14.75	36.53	18.79	276.64	-49.23	860.09	814.47	45.62	18.853		
11,300.00	11,286.00	10,656.27	10,422.05	14.93	36.62	13.52	303.41	-49.46	944.19	898.46	45.73	20.649		
11,400.00	11,381.03	10,681.87	10,431.39	15.11	36.70	10.61	327.25	-49.78	1,020.56	974.83	45.73	22.317		
11,500.00	11,469.29	10,722.00	10,444.11	15.27	36.83	8.66	365.30	-50.48	1,088.12	1,042.31	45.82	23.750		
11,600.00	11,548.09	10,722.00	10,444.11	15.42	36.83	7.66	365.30	-50.48	1,145.82	1,100.22	45.59	25.131		
11,700.00	11,615.03	10,764.73	10,454.72	15.54	36.97	6.75	406.66	-51.32	1,192.62	1,146.95	45.67	26.113		
11,800.00	11,668.09	10,817.00	10,463.02	15.66	37.13	6.12	458.24	-52.21	1,229.67	1,183.88	45.79	26.852		
11,900.00	11,705.65	10,817.00	10,463.02	15.79	37.13	5.86	458.24	-52.21	1,253.81	1,208.07	45.74	27.411		
12,000.00	11,726.57	10,875.78	10,468.12	16.00	37.33	5.60	516.78	-53.39	1,265.97	1,220.02	45.94	27.555		
12,100.00	11,730.73	10,944.53	10,471.23	16.38	37.58	5.48	585.43	-55.42	1,264.95	1,218.80	46.15	27.412		
12,200.00	11,729.85	11,047.74	10,475.47	16.93	37.99	5.41	688.49	-58.94	1,259.71	1,213.30	46.40	27.148		
12,300.00	11,728.97	11,155.37	10,480.05	17.60	38.48	5.27	795.93	-63.57	1,254.29	1,207.59	46.71	26.855		
12,400.00	11,728.10	11,234.88	10,483.60	18.36	38.87	5.13	875.25	-67.73	1,248.72	1,201.73	46.99	26.573		
12,500.00	11,727.22	11,297.99	10,484.42	19.19	39.20	4.99	938.24	-71.53	1,246.03	1,198.74	47.29	26.347		
12,600.00	11,726.34	11,387.64	10,484.00	20.09	39.71	4.77	1,027.70	-77.26	1,245.17	1,197.52	47.66	26.127		
12,700.00	11,725.47	11,479.00	10,483.36	21.03	40.26	4.52	1,118.84	-83.59	1,244.56	1,196.50	48.06	25.897		
12,725.93	11,725.24	11,508.11	10,483.10	21.29	40.44	4.44	1,147.88	-85.62	1,244.43	1,196.25	48.17	25.833		
12,800.00	11,724.59	11,575.00	10,481.60	22.02	40.88	4.29	1,214.64	-89.49	1,245.12	1,196.63	48.49	25.677		
12,900.00	11,723.71	11,665.52	10,479.15	23.06	41.49	4.20	1,305.07	-92.16	1,246.72	1,197.77	48.96	25.466		
13,000.00	11,722.84	11,828.21	10,479.60	24.12	42.66	4.42	1,467.70	-89.04	1,245.93	1,196.39	49.54	25.148		
13,100.00	11,721.96	11,946.57	10,484.78	25.22	43.56	4.74	1,585.82	-83.64	1,241.06	1,190.92	50.13	24.755		
13,200.00	11,721.09	12,024.52	10,487.84	26.34	44.18	4.94	1,663.64	-80.35	1,236.73	1,186.04	50.69	24.398		
13,300.00	11,720.21	12,109.98	10,489.59	27.49	44.88	5.08	1,749.06	-78.35	1,234.08	1,182.80	51.28	24.066		
13,400.00	11,719.33	12,200.36	10,490.58	28.65	45.64	5.18	1,839.43	-77.37	1,232.30	1,180.40	51.89	23.747		
13,477.69	11,718.65	12,260.78	10,490.74	29.57	46.17	5.23	1,899.85	-76.94	1,231.58	1,179.20	52.38	23.513		
13,500.00	11,718.46	12,274.65	10,490.60	29.83	46.29	5.24	1,913.71	-76.80	1,231.65	1,179.14	52.52	23.453		
13,600.00	11,717.58	12,338.17	10,488.75	31.03	46.86	5.31	1,977.19	-75.86	1,233.88	1,180.72	53.16	23.212		
13,700.00	11,716.70	12,432.79	10,484.52	32.25	47.73	5.42	2,071.70	-73.98	1,237.73	1,183.88	53.84	22.987		
13,800.00	11,715.83	12,526.73	10,479.77	33.47	48.62	5.52	2,165.50	-72.38	1,242.14	1,187.59	54.55	22.771		
13,900.00	11,714.95	12,668.94	10,476.14	34.71	50.00	5.59	2,307.66	-71.88	1,243.48	1,188.17	55.31	22.482		
14,000.00	11,714.07	12,754.60	10,473.84	35.95	50.85	5.60	2,393.29	-72.37	1,245.30	1,189.26	56.04	22.221		
14,100.00	11,713.20	12,843.41	10,470.65	37.21	51.76	5.60	2,482.03	-73.06	1,248.03	1,191.24	56.79	21.975		
14,200.00	11,712.32	12,961.81	10,465.82	38.47	52.99	5.58	2,600.33	-74.22	1,251.35	1,193.77	57.58	21.733		
14,300.00	11,711.44	13,125.79	10,466.55	39.74	54.73	5.56	2,764.26	-76.47	1,249.65	1,191.24	58.41	21.395		
14,400.00	11,710.57	13,222.69	10,468.83	41.02	55.78	5.55	2,861.13	-77.81	1,246.39	1,187.17	59.22	21.047		
14,500.00	11,709.69	13,309.49	10,470.46	42.30	56.74	5.50	2,947.88	-79.93	1,243.55	1,183.51	60.04	20.714		
14,600.00	11,708.81	13,385.11	10,470.40	43.59	57.58	5.45	3,023.48	-81.76	1,242.57	1,181.72	60.86	20.417		
14,700.00	11,707.94	13,549.35	10,471.63	44.88	59.43	5.43	3,187.67	-84.20	1,241.57	1,179.85	61.72	20.117		
14,800.00	11,707.06	13,646.21	10,475.99	46.18	60.55	5.33	3,284.37	-87.72	1,235.98	1,173.41	62.57	19.754		
14,900.00	11,706.19	13,730.75	10,478.67	47.48	61.53	5.17	3,368.75	-92.19	1,231.55	1,168.13	63.42	19.418		
15,000.00	11,705.31	13,799.76	10,479.67	48.79	62.35	5.01	3,437.62	-96.48	1,228.85	1,164.56	64.28	19.116		
15,042.31	11,704.94	13,826.50	10,479.47	49.34	62.66	4.94	3,464.30	-98.25	1,228.58	1,163.93	64.65	19.003		
15,100.00	11,704.43	13,867.88	10,478.56	50.10	63.15	4.83	3,505.57	-101.03	1,229.03	1,163.89	65.15	18.866		
15,200.00	11,703.56	13,954.57	10,475.77	51.41	64.19	4.65	3,592.10	-105.54	1,231.00	1,164.99	66.02	18.647		
15,300.00	11,702.68	14,058.83	10,472.31	52.73	65.44	4.46	3,696.18	-110.46	1,233.13	1,166.23	66.90	18.432		
15,400.00	11,701.80	14,150.04	10,468.99	54.04	66.55	4.27	3,787.21	-115.22	1,235.57	1,167.78	67.79	18.226		
15,500.00	11,700.93	14,243.60	10,464.94	55.37	67.70	4.07	3,880.55	-120.22	1,238.70	1,170.01	68.69	18.034		
15,600.00	11,700.05	14,364.30	10,460.15	56.69	69.18	3.91	4,001.06	-124.63	1,241.68	1,172.07	69.61	17.838		
15,700.00	11,699.17	14,490.03	10,458.72	58.01	70.73	3.85	4,126.76	-126.94	1,241.77	1,171.22	70.55	17.601		

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 154H
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 154H	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												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
				(usft)	(usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
15,800.00	11,698.30	14,598.89	10,458.56	59.34	72.08	3.83	4,235.62	-128.43	1,241.02	1,169.51	71.50	17.356	
15,900.00	11,697.42	14,727.73	10,460.78	60.67	73.68	3.92	4,364.43	-128.14	1,238.44	1,165.97	72.47	17.089	
16,000.00	11,696.54	14,817.90	10,463.11	62.00	74.80	4.00	4,454.57	-127.41	1,235.14	1,161.67	73.47	16.811	
16,100.00	11,695.67	14,890.00	10,463.64	63.34	75.71	4.05	4,526.66	-127.10	1,233.61	1,159.12	74.49	16.560	
16,121.51	11,695.48	14,905.15	10,463.54	63.63	75.90	4.06	4,541.81	-127.07	1,233.59	1,158.88	74.71	16.512	
16,200.00	11,694.79	14,961.25	10,462.53	64.67	76.61	4.09	4,597.91	-126.84	1,234.38	1,158.88	75.50	16.349	
16,300.00	11,693.91	15,032.59	10,459.79	66.01	77.51	4.14	4,669.18	-126.39	1,237.47	1,160.97	76.50	16.177	
16,400.00	11,693.04	15,127.44	10,454.21	67.35	78.72	4.18	4,763.87	-125.96	1,242.53	1,165.02	77.51	16.031	
16,500.00	11,692.16	15,223.20	10,449.53	68.69	79.94	4.29	4,859.50	-124.27	1,246.76	1,168.22	78.54	15.874	
16,600.00	11,691.28	15,345.27	10,442.53	70.03	81.50	4.44	4,981.34	-121.66	1,252.05	1,172.44	79.61	15.727	
16,700.00	11,690.41	15,497.76	10,440.12	71.37	83.46	4.66	5,133.75	-118.18	1,252.93	1,172.23	80.70	15.526	
16,800.00	11,689.53	15,616.32	10,441.67	72.71	84.99	4.78	5,252.30	-116.83	1,250.87	1,169.12	81.75	15.301	
16,900.00	11,688.66	15,716.35	10,443.33	74.06	86.29	4.81	5,352.31	-117.47	1,248.37	1,165.56	82.80	15.076	
17,000.00	11,687.78	15,793.16	10,444.02	75.40	87.30	4.79	5,429.11	-118.73	1,246.62	1,162.74	83.87	14.863	
17,024.27	11,687.57	15,809.97	10,443.91	75.73	87.52	4.78	5,445.91	-119.07	1,246.54	1,162.41	84.13	14.816	
17,100.00	11,686.90	15,866.12	10,442.85	76.75	88.25	4.75	5,502.03	-120.33	1,247.20	1,162.27	84.93	14.685	
17,200.00	11,686.03	15,945.01	10,440.18	78.10	89.29	4.69	5,580.86	-122.15	1,249.60	1,163.64	85.96	14.537	
17,300.00	11,685.15	16,027.00	10,435.87	79.45	90.38	4.62	5,662.71	-124.11	1,253.80	1,166.81	86.99	14.414	
17,400.00	11,684.27	16,107.65	10,430.46	80.79	91.45	4.56	5,743.16	-125.78	1,259.47	1,171.47	88.00	14.312	
17,500.00	11,683.40	16,198.49	10,423.60	82.14	92.66	4.51	5,833.73	-127.24	1,266.07	1,177.03	89.03	14.220	
17,600.00	11,682.52	16,307.65	10,415.25	83.50	94.12	4.44	5,942.55	-129.42	1,272.76	1,182.66	90.09	14.127	
17,700.00	11,681.64	16,440.82	10,407.78	84.85	95.89	4.38	6,075.48	-131.54	1,277.36	1,186.17	91.19	14.008	
17,800.00	11,680.77	16,560.74	10,403.29	86.20	97.49	4.47	6,195.31	-130.39	1,280.41	1,188.09	92.31	13.871	
17,900.00	11,679.89	16,653.57	10,401.01	87.55	98.72	4.61	6,288.07	-127.91	1,282.31	1,188.85	93.45	13.722	
18,000.00	11,679.01	16,736.48	10,397.79	88.90	99.82	4.76	6,370.88	-125.19	1,285.63	1,191.04	94.59	13.592	
18,100.00	11,678.14	16,818.50	10,393.61	90.26	100.92	4.87	6,452.77	-123.10	1,290.15	1,194.44	95.71	13.480	
18,200.00	11,677.26	16,909.34	10,387.45	91.61	102.14	4.97	6,543.38	-121.28	1,296.25	1,199.41	96.83	13.386	
18,300.00	11,676.38	17,040.68	10,380.62	92.97	103.90	5.15	6,674.49	-118.04	1,300.80	1,202.75	98.06	13.266	
18,400.00	11,675.51	17,128.87	10,376.85	94.32	105.08	5.28	6,762.57	-115.63	1,304.57	1,205.35	99.22	13.149	
18,500.00	11,674.63	17,226.57	10,371.57	95.68	106.39	5.44	6,860.08	-112.47	1,309.46	1,209.06	100.41	13.042	
18,600.00	11,673.76	17,354.49	10,365.91	97.03	108.12	5.61	6,987.83	-109.33	1,313.40	1,211.76	101.64	12.922	
18,700.00	11,672.88	17,482.28	10,363.05	98.39	109.85	5.63	7,115.57	-109.99	1,314.77	1,212.00	102.77	12.793	
18,800.00	11,672.00	17,550.28	10,361.09	99.75	110.77	5.60	7,183.54	-111.18	1,316.61	1,212.72	103.89	12.674	
18,900.00	11,671.13	17,646.07	10,357.00	101.11	112.08	5.51	7,279.20	-113.68	1,319.81	1,214.84	104.97	12.573	
19,000.00	11,670.25	17,751.38	10,352.65	102.46	113.53	5.38	7,384.36	-117.47	1,322.80	1,216.77	106.03	12.476	
19,100.00	11,669.37	17,840.92	10,348.76	103.82	114.76	5.24	7,473.73	-121.36	1,325.95	1,218.87	107.08	12.383	
19,200.00	11,668.50	17,929.38	10,344.13	105.18	115.98	5.07	7,561.96	-125.68	1,329.94	1,221.83	108.11	12.301	
19,300.00	11,667.62	18,068.38	10,338.20	106.54	117.90	4.81	7,700.64	-132.78	1,332.98	1,223.85	109.14	12.214	
19,400.00	11,666.74	18,173.11	10,335.79	107.90	119.34	4.63	7,805.22	-137.88	1,334.07	1,223.89	110.18	12.108	
19,500.00	11,665.87	18,268.99	10,333.27	109.26	120.67	4.48	7,900.98	-142.15	1,335.54	1,224.29	111.25	12.005	
19,600.00	11,664.99	18,370.87	10,330.74	110.62	122.08	4.31	8,002.71	-146.88	1,336.86	1,224.55	112.31	11.903	
19,700.00	11,664.11	18,473.49	10,328.20	111.98	123.50	4.15	8,105.20	-151.48	1,338.20	1,224.82	113.37	11.803	
19,800.00	11,663.24	18,567.32	10,326.03	113.34	124.80	4.00	8,198.91	-155.80	1,339.39	1,224.94	114.45	11.703	
19,900.00	11,662.36	18,652.90	10,323.34	114.70	125.98	3.93	8,284.41	-158.05	1,341.53	1,225.97	115.56	11.609	
20,000.00	11,661.48	18,745.43	10,319.62	116.06	127.26	3.92	8,376.86	-159.03	1,344.65	1,227.96	116.70	11.523	
20,100.00	11,660.61	18,843.01	10,315.60	117.42	128.61	3.91	8,474.35	-159.90	1,347.89	1,230.05	117.84	11.439	
20,200.00	11,659.73	18,939.18	10,311.27	118.78	129.94	3.91	8,570.43	-160.68	1,351.51	1,232.53	118.98	11.359	
20,300.00	11,658.85	19,042.08	10,306.62	120.15	131.36	3.89	8,673.21	-161.74	1,355.15	1,235.02	120.12	11.281	
20,400.00	11,657.98	19,144.53	10,302.25	121.51	132.78	3.86	8,775.55	-163.35	1,358.49	1,237.23	121.26	11.203	
20,500.00	11,657.10	19,255.78	10,297.93	122.87	134.33	3.84	8,886.71	-164.71	1,361.48	1,239.08	122.41	11.122	
20,600.00	11,656.23	19,360.19	10,294.66	124.23	135.78	3.83	8,991.07	-165.80	1,363.73	1,240.17	123.56	11.037	
20,700.00	11,655.35	19,431.05	10,291.80	125.60	136.76	3.81	9,061.86	-166.68	1,366.87	1,242.19	124.69	10.962	

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 154H
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 154H	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		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)			
20,800.00	11,654.47	19,516.25	10,286.71	126.96	137.95	3.80	9,146.91	-167.54	1,371.92	1,246.11	125.81	10.905	
20,900.00	11,653.60	19,606.47	10,280.87	128.32	139.20	3.78	9,236.93	-168.39	1,377.51	1,250.58	126.93	10.852	
21,000.00	11,652.72	19,705.18	10,273.84	129.69	140.58	3.81	9,335.39	-168.33	1,383.81	1,255.71	128.10	10.803	
21,100.00	11,651.84	19,798.92	10,267.29	131.05	141.88	3.79	9,428.90	-169.21	1,389.93	1,260.69	129.23	10.755	
21,200.00	11,650.97	19,943.92	10,257.87	132.41	143.91	3.78	9,573.56	-170.23	1,395.87	1,265.39	130.48	10.698	
21,300.00	11,650.09	20,085.46	10,254.22	133.78	145.87	3.85	9,715.06	-169.75	1,397.63	1,265.95	131.68	10.613	
21,400.00	11,649.21	20,239.13	10,255.35	135.14	148.01	3.96	9,868.71	-168.86	1,396.17	1,263.39	132.78	10.515	
21,500.00	11,648.34	20,361.20	10,259.87	136.51	149.71	3.99	9,990.68	-169.67	1,391.56	1,257.69	133.87	10.395	
21,600.00	11,647.46	20,457.00	10,263.91	137.87	151.05	4.00	10,086.40	-170.51	1,386.50	1,251.43	135.07	10.265	
21,700.00	11,646.58	20,572.15	10,268.70	139.24	152.65	4.08	10,201.45	-170.27	1,381.62	1,245.41	136.21	10.144	
21,800.00	11,645.71	20,697.91	10,276.78	140.60	154.40	4.21	10,326.94	-168.94	1,374.40	1,237.11	137.29	10.011	
21,900.00	11,644.83	20,725.00	10,278.70	141.97	154.78	4.24	10,353.96	-168.53	1,368.56	1,229.67	138.89	9.854	
21,933.82	11,644.53	20,725.00	10,278.70	142.43	154.78	4.24	10,353.96	-168.53	1,368.14	1,228.77	139.37	9.817	
21,946.87	11,644.42	20,725.00	10,278.70	142.61	154.78	4.24	10,353.96	-168.53	1,368.20	1,228.66	139.54	9.805	



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 154H
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 154H	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												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	-91.09	-2.00	-105.00	105.02				
100.00	100.00	98.92	98.92	0.50	0.15	-91.15	-2.11	-105.04	105.06	104.40	0.66	160.357	
200.00	200.00	198.59	198.58	1.31	0.35	-91.33	-2.44	-105.17	105.20	103.54	1.66	63.294	
300.00	300.00	298.61	298.60	1.79	0.71	-91.81	-3.35	-105.76	105.81	103.31	2.50	42.355	
400.00	400.00	399.14	399.12	2.17	1.07	-92.28	-4.21	-105.82	105.91	102.67	3.23	32.748	
440.57	440.57	439.59	439.57	2.30	1.21	-92.36	-4.37	-105.77	105.86	102.35	3.51	30.166	
500.00	500.00	498.44	498.43	2.49	1.42	-92.55	-4.72	-105.91	106.02	102.11	3.91	27.109	
600.00	600.00	599.17	599.15	2.78	1.78	-92.93	-5.43	-106.18	106.32	101.76	4.56	23.325	
700.00	700.00	699.18	699.15	3.04	2.13	-93.55	-6.58	-105.95	106.15	100.97	5.18	20.495	
800.00	800.00	799.34	799.30	3.15	2.49	75.60	-8.44	-105.57	105.83	100.19	5.64	18.757	
900.00	899.96	899.10	899.04	3.43	2.85	75.85	-10.52	-105.30	105.07	98.85	6.22	16.905	
1,000.00	999.82	999.67	999.58	3.69	3.21	77.31	-13.00	-104.76	103.46	96.68	6.78	15.260	
1,100.00	1,099.51	1,100.11	1,099.98	3.94	3.57	80.17	-15.68	-103.59	100.82	93.48	7.33	13.746	
1,200.00	1,199.01	1,199.39	1,199.21	4.03	3.93	77.76	-18.03	-102.08	97.57	89.80	7.77	12.557	
1,300.00	1,298.54	1,298.57	1,298.39	4.23	4.29	67.38	-19.23	-101.45	93.93	85.58	8.35	11.245	
1,400.00	1,398.09	1,398.43	1,398.23	4.45	4.64	56.31	-20.39	-100.46	88.24	79.30	8.94	9.875	
1,500.00	1,497.59	1,497.54	1,497.32	4.66	5.00	46.57	-21.91	-99.68	80.77	71.27	9.50	8.498	
1,600.00	1,596.97	1,596.55	1,596.33	4.87	5.35	40.41	-22.64	-99.28	72.00	61.93	10.06	7.154	
1,700.00	1,696.16	1,695.69	1,695.47	5.06	5.70	37.87	-23.45	-99.15	61.59	50.98	10.62	5.801	
1,800.00	1,795.19	1,794.72	1,794.50	5.18	6.05	46.02	-23.63	-98.62	50.55	39.43	11.12	4.545	
1,900.00	1,894.22	1,893.75	1,893.53	5.36	6.40	60.48	-23.77	-97.82	41.43	29.74	11.69	3.544	
2,000.00	1,993.24	1,992.61	1,992.37	5.54	6.74	80.90	-24.01	-96.89	36.07	23.81	12.26	2.942	
2,038.97	2,031.83	2,031.07	2,030.84	5.61	6.88	90.09	-24.01	-96.48	35.56	23.08	12.48	2.850 CC, ES	
2,100.00	2,092.27	2,091.31	2,091.07	5.72	7.08	104.22	-23.86	-95.90	36.80	24.01	12.79	2.877	
2,200.00	2,191.30	2,190.08	2,189.84	5.91	7.42	123.90	-23.51	-94.61	43.37	30.08	13.28	3.265	
2,300.00	2,290.32	2,288.64	2,288.37	6.09	7.77	137.56	-22.97	-92.88	54.03	40.25	13.77	3.923	
2,400.00	2,389.35	2,388.39	2,388.10	6.28	8.12	147.18	-23.39	-91.10	66.13	51.84	14.29	4.629	
2,500.00	2,488.41	2,487.62	2,487.23	6.40	8.47	155.93	-26.99	-88.49	78.30	63.55	14.75	5.310	
2,600.00	2,587.75	2,585.55	2,585.03	6.58	8.83	162.11	-30.83	-85.19	90.19	74.90	15.29	5.898	
2,700.00	2,687.36	2,685.17	2,684.55	6.75	9.19	166.02	-33.84	-82.04	100.48	84.62	15.85	6.337	
2,800.00	2,787.16	2,784.06	2,783.26	6.91	9.55	169.86	-38.51	-78.11	108.84	92.44	16.41	6.634	
2,900.00	2,887.09	2,884.13	2,883.09	7.08	9.91	173.33	-43.83	-73.98	115.05	98.08	16.96	6.783	
3,000.00	2,987.08	2,984.10	2,982.89	7.18	10.27	79.52	-48.43	-70.38	118.64	101.22	17.42	6.810	
3,100.00	3,087.08	3,084.78	3,083.46	7.28	10.64	81.32	-51.68	-67.03	121.39	103.50	17.89	6.786	
3,200.00	3,187.08	3,187.67	3,186.26	7.39	11.01	83.25	-55.62	-65.48	122.37	104.01	18.37	6.662	
3,300.00	3,287.08	3,288.81	3,287.26	7.49	11.37	85.78	-61.05	-65.85	121.49	102.66	18.83	6.452	
3,400.00	3,387.08	3,388.83	3,387.13	7.59	11.73	88.24	-66.30	-66.40	120.66	101.38	19.28	6.258	
3,500.00	3,487.08	3,488.53	3,486.70	7.69	12.09	90.64	-71.35	-67.16	119.85	100.12	19.73	6.073	
3,600.00	3,587.08	3,588.56	3,586.63	7.79	12.45	92.81	-75.86	-67.66	119.48	99.29	20.19	5.919	
3,700.00	3,687.08	3,688.20	3,686.18	7.89	12.81	94.76	-79.88	-68.30	119.11	98.47	20.64	5.771	
3,712.76	3,699.85	3,700.87	3,698.85	7.90	12.85	94.98	-80.34	-68.34	119.11	98.41	20.70	5.755	
3,800.00	3,787.08	3,786.19	3,784.10	7.99	13.16	96.55	-83.66	-68.04	119.75	98.67	21.08	5.681	
3,900.00	3,887.08	3,883.37	3,881.15	8.08	13.51	98.50	-88.11	-65.88	122.57	101.06	21.51	5.698	
4,000.00	3,987.08	3,984.16	3,981.82	8.18	13.88	99.79	-91.52	-62.33	126.59	104.61	21.97	5.761	
4,100.00	4,087.08	4,085.04	4,082.64	8.28	14.24	100.48	-93.57	-59.66	129.55	107.11	22.43	5.775	
4,200.00	4,187.08	4,187.18	4,184.71	8.38	14.61	101.96	-97.23	-58.43	131.43	108.53	22.90	5.739	
4,300.00	4,287.08	4,289.34	4,286.81	8.48	14.97	103.41	-100.60	-58.64	131.96	108.59	23.36	5.648	
4,400.00	4,387.08	4,398.64	4,395.94	8.57	15.34	104.35	-101.43	-64.14	127.20	103.42	23.78	5.348	
4,500.00	4,487.08	4,499.10	4,496.04	8.67	15.67	104.69	-100.01	-72.53	118.75	94.55	24.20	4.907	
4,600.00	4,587.08	4,595.70	4,592.37	8.77	15.99	104.31	-97.51	-79.13	111.50	86.85	24.64	4.524	
4,700.00	4,687.08	4,691.77	4,688.34	8.86	16.30	102.98	-94.22	-81.89	107.89	82.81	25.08	4.302	
4,784.35	4,771.43	4,773.96	4,770.43	8.94	16.57	100.84	-90.10	-82.01	106.90	81.46	25.43	4.203	

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 154H
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 154H	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		Highside		Offset Wellbore Centre		Distance		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 (usft)		
4,800.00	4,787.08	4,789.02	4,785.47	8.96	16.62	100.42	-89.34	-81.82	106.94	81.44	25.50	4.194	
4,900.00	4,887.08	4,886.69	4,883.02	9.06	16.95	98.17	-85.50	-79.09	109.06	83.15	25.91	4.209	
5,000.00	4,987.08	4,986.60	4,982.85	9.15	17.29	96.72	-83.09	-75.95	111.86	85.52	26.35	4.245	
5,100.00	5,087.08	5,086.22	5,082.39	9.25	17.63	95.49	-80.99	-72.67	114.92	88.13	26.78	4.291	
5,200.00	5,187.08	5,187.05	5,183.15	9.34	17.98	94.50	-79.26	-69.42	117.98	90.75	27.23	4.333	
5,300.00	5,287.08	5,288.06	5,284.15	9.44	18.33	94.26	-78.91	-67.42	119.93	92.25	27.68	4.333	
5,400.00	5,387.08	5,387.53	5,383.59	9.53	18.68	94.17	-78.85	-65.73	121.62	93.50	28.12	4.325	
5,500.00	5,487.08	5,487.34	5,483.39	9.63	19.03	94.12	-78.89	-63.54	123.81	95.25	28.56	4.335	
5,600.00	5,587.08	5,587.19	5,583.21	9.72	19.38	94.08	-78.97	-61.32	126.03	97.02	29.01	4.345	
5,700.00	5,687.08	5,687.31	5,683.31	9.81	19.74	94.05	-79.05	-59.08	128.27	98.82	29.45	4.355	
5,800.00	5,787.08	5,787.87	5,783.85	9.91	20.09	94.08	-79.26	-57.12	130.23	100.32	29.90	4.355	
5,900.00	5,887.08	5,886.52	5,882.47	10.00	20.44	94.12	-79.50	-54.94	132.45	102.11	30.34	4.366	
6,000.00	5,987.08	5,987.58	5,983.50	10.09	20.80	94.49	-80.55	-52.67	134.77	103.98	30.79	4.376	
6,100.00	6,087.08	6,088.54	6,084.41	10.19	21.17	95.71	-83.55	-51.38	136.30	105.06	31.25	4.362	
6,200.00	6,187.08	6,188.88	6,184.67	10.28	21.53	97.19	-87.19	-50.68	137.41	105.71	31.70	4.335	
6,300.00	6,287.08	6,288.66	6,284.38	10.37	21.88	98.61	-90.72	-50.09	138.48	106.34	32.14	4.308	
6,400.00	6,387.08	6,388.89	6,384.56	10.47	22.24	99.94	-94.14	-49.21	139.89	107.30	32.59	4.292	
6,500.00	6,487.08	6,491.09	6,486.72	10.56	22.61	101.08	-96.93	-49.48	140.13	107.09	33.04	4.241	
6,600.00	6,587.08	6,591.61	6,587.20	10.65	22.96	102.07	-99.13	-50.80	139.29	105.80	33.49	4.160	
6,700.00	6,687.08	6,691.59	6,687.15	10.74	23.31	103.07	-101.35	-51.95	138.65	104.72	33.93	4.087	
6,800.00	6,787.08	6,791.73	6,787.26	10.84	23.66	104.11	-103.58	-53.43	137.73	103.36	34.37	4.008	
6,900.00	6,887.08	6,891.49	6,886.97	10.93	24.01	105.31	-106.17	-54.86	137.01	102.20	34.81	3.936	
7,000.00	6,987.08	6,991.37	6,986.81	11.02	24.36	106.52	-108.79	-56.21	136.42	101.17	35.25	3.870	
7,100.00	7,087.08	7,091.10	7,086.50	11.11	24.71	107.72	-111.38	-57.47	135.98	100.29	35.69	3.810	
7,168.58	7,155.67	7,159.29	7,154.67	11.17	24.95	108.51	-113.14	-58.17	135.86	99.87	35.99	3.775	
7,200.00	7,187.08	7,190.49	7,185.85	11.20	25.06	108.88	-113.97	-58.42	135.89	99.76	36.13	3.761	
7,300.00	7,287.08	7,289.72	7,285.04	11.29	25.42	110.01	-116.65	-58.88	136.35	99.78	36.57	3.728	
7,400.00	7,387.08	7,389.74	7,385.02	11.38	25.78	111.10	-119.38	-59.04	137.16	100.14	37.02	3.705	
7,500.00	7,487.08	7,488.87	7,484.11	11.47	26.13	112.27	-122.37	-59.09	138.23	100.76	37.46	3.690	
7,600.00	7,587.08	7,588.96	7,584.15	11.57	26.49	113.46	-125.60	-58.91	139.65	101.74	37.91	3.684	
7,700.00	7,687.08	7,687.57	7,682.70	11.66	26.84	114.64	-129.02	-58.34	141.59	103.24	38.35	3.692	
7,800.00	7,787.08	7,789.60	7,784.64	11.75	27.21	116.16	-133.14	-58.45	143.22	104.42	38.81	3.691	
7,900.00	7,887.08	7,889.77	7,884.72	11.84	27.57	117.77	-137.13	-59.51	144.09	104.84	39.25	3.671	
8,000.00	7,987.08	7,988.66	7,983.53	11.93	27.92	119.25	-141.14	-59.99	145.60	105.91	39.70	3.668	
8,100.00	8,087.08	8,089.25	8,084.08	12.02	28.28	120.21	-143.97	-59.95	147.03	106.89	40.15	3.662	
8,200.00	8,187.08	8,188.41	8,183.22	12.11	28.64	120.72	-145.93	-59.21	148.68	108.09	40.59	3.663	
8,300.00	8,287.08	8,288.49	8,283.28	12.20	28.99	120.88	-147.37	-57.62	150.77	109.74	41.03	3.674	
8,400.00	8,387.08	8,388.88	8,383.64	12.29	29.34	120.23	-146.66	-55.46	152.26	110.79	41.47	3.672	
8,500.00	8,487.08	8,487.69	8,482.40	12.38	29.68	119.31	-145.51	-52.51	154.28	112.38	41.90	3.682	
8,600.00	8,587.08	8,588.92	8,583.58	12.47	30.03	118.49	-144.72	-49.36	156.63	114.30	42.34	3.700	
8,700.00	8,687.08	8,690.02	8,684.61	12.56	30.38	117.27	-142.21	-46.92	157.60	114.83	42.77	3.685	
8,800.00	8,787.08	8,788.42	8,782.96	12.65	30.71	116.13	-139.97	-44.34	158.93	115.73	43.20	3.679	
8,900.00	8,887.08	8,886.60	8,881.07	12.73	31.05	115.40	-139.24	-41.17	161.51	117.88	43.63	3.702	
9,000.00	8,987.08	8,986.63	8,981.05	12.82	31.41	115.36	-140.52	-38.21	164.73	120.66	44.07	3.738	
9,100.00	9,087.08	9,084.70	9,079.01	12.91	31.76	116.47	-144.90	-36.58	168.18	123.68	44.50	3.779	
9,200.00	9,187.08	9,188.57	9,182.71	13.00	32.14	118.06	-150.73	-35.54	171.66	126.69	44.97	3.817	
9,300.00	9,287.08	9,294.08	9,288.12	13.09	32.51	119.49	-154.69	-37.25	172.05	126.63	45.42	3.788	
9,400.00	9,387.08	9,398.27	9,392.17	13.18	32.87	121.09	-157.51	-41.86	169.59	123.74	45.85	3.698	
9,500.00	9,487.08	9,500.36	9,494.04	13.27	33.22	122.83	-159.61	-48.12	165.47	119.19	46.28	3.575	
9,600.00	9,587.08	9,603.27	9,596.73	13.36	33.56	123.72	-158.39	-54.54	159.60	112.90	46.70	3.418	
9,700.00	9,687.08	9,702.51	9,695.74	13.45	33.90	124.51	-156.52	-61.15	153.03	105.90	47.12	3.247	
9,800.00	9,787.08	9,801.66	9,794.67	13.53	34.23	125.55	-155.32	-67.62	146.98	99.43	47.55	3.091	

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 154H
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 154H	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 (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,900.00	9,887.08	9,900.59	9,893.42	13.62	34.56	126.41	-153.78	-73.39	141.35	93.37	47.98	2.946	
10,000.00	9,987.08	9,999.66	9,992.35	13.71	34.89	127.36	-152.83	-78.51	136.64	88.23	48.41	2.823	
10,100.00	10,087.08	10,099.92	10,092.47	13.80	35.23	128.39	-151.85	-83.70	131.95	83.11	48.84	2.702	
10,200.00	10,187.08	10,200.99	10,193.40	13.89	35.57	128.76	-149.23	-88.32	126.77	77.51	49.26	2.573	
10,300.00	10,287.08	10,300.51	10,292.71	13.98	35.91	130.01	-147.57	-94.58	120.84	71.15	49.69	2.432	
10,400.00	10,387.08	10,399.23	10,391.25	14.06	36.24	131.57	-146.82	-100.37	115.90	65.78	50.12	2.312	
10,500.00	10,487.08	10,497.11	10,489.03	14.15	36.57	132.83	-146.28	-104.72	112.23	61.68	50.56	2.220	
10,600.00	10,587.08	10,596.19	10,588.08	14.24	36.91	132.47	-144.38	-105.74	110.19	59.20	50.98	2.161	
10,700.00	10,687.08	10,695.77	10,687.62	14.33	37.24	131.04	-141.28	-105.11	108.58	57.17	51.41	2.112	
10,800.00	10,787.08	10,795.55	10,787.36	14.41	37.58	129.80	-138.68	-104.58	107.29	55.46	51.83	2.070	
10,900.00	10,887.08	10,897.78	10,889.53	14.50	37.92	128.56	-135.54	-104.80	105.19	52.93	52.26	2.013	
11,000.00	10,987.08	10,999.32	10,990.97	14.59	38.27	127.67	-131.66	-107.13	101.02	48.34	52.68	1.918 Collision Risk Procedures Req.	
11,100.00	11,087.08	11,097.10	11,088.69	14.68	38.60	127.60	-129.50	-109.75	97.54	44.43	53.11	1.837 Collision Risk Procedures Req.	
11,200.00	11,187.07	11,203.66	11,195.00	14.75	38.96	127.84	-126.20	-115.79	91.60	38.10	53.50	1.712 Collision Risk Procedures Req.	
11,280.23	11,266.65	11,286.35	11,277.12	14.89	39.24	133.53	-120.57	-123.71	88.49	34.64	53.85	1.643 Collision Risk Procedures Req., SF	
11,300.00	11,286.00	11,304.76	11,295.39	14.93	39.30	135.44	-119.16	-125.51	88.92	34.97	53.95	1.648 Collision Risk Procedures Req.	
11,400.00	11,381.03	11,396.16	11,386.42	15.11	39.61	146.19	-114.01	-131.66	104.75	50.28	54.46	1.923 Collision Risk Procedures Req.	
11,500.00	11,469.29	11,483.62	11,473.77	15.27	39.90	154.55	-110.36	-133.79	142.10	87.14	54.96	2.585	
11,600.00	11,548.09	11,562.21	11,552.32	15.42	40.17	159.60	-107.93	-134.48	197.66	142.27	55.40	3.568	
11,700.00	11,615.03	11,634.28	11,624.35	15.54	40.41	162.42	-105.63	-134.93	267.57	211.81	55.76	4.799	
11,800.00	11,668.09	11,694.15	11,684.16	15.66	40.62	163.04	-103.01	-135.14	348.52	292.48	56.04	6.219	
11,900.00	11,705.65	11,778.48	11,768.10	15.79	40.90	164.18	-95.48	-134.50	437.01	380.76	56.24	7.770	
12,000.00	11,726.57	12,259.83	12,147.65	16.00	42.35	172.27	171.88	-121.60	499.09	445.29	53.80	9.276	
12,100.00	11,730.73	12,539.40	12,237.76	16.38	43.13	171.00	433.62	-97.20	523.52	471.21	52.31	10.008	
12,200.00	11,729.85	12,688.67	12,258.37	16.93	43.60	170.94	581.31	-92.17	538.67	486.25	52.42	10.276	
12,300.00	11,728.97	12,824.95	12,265.38	17.60	44.09	170.69	717.37	-89.80	544.79	492.02	52.76	10.325	
12,400.00	11,728.10	12,931.46	12,267.22	18.36	44.51	170.53	823.86	-88.78	547.66	494.58	53.08	10.317	
12,500.00	11,727.22	13,014.18	12,269.70	19.19	44.88	170.57	906.53	-89.42	551.55	498.26	53.29	10.350	
12,600.00	11,726.34	13,163.32	12,271.98	20.09	45.62	171.20	1,055.40	-96.41	553.62	499.69	53.93	10.266	
12,700.00	11,725.47	13,278.20	12,266.07	21.03	46.25	171.79	1,169.88	-103.96	548.49	494.09	54.40	10.083	
12,800.00	11,724.59	13,380.52	12,259.93	22.02	46.87	172.53	1,271.63	-112.78	542.34	487.59	54.75	9.905	
12,900.00	11,723.71	13,472.01	12,254.30	23.06	47.44	172.96	1,362.77	-118.38	536.48	481.44	55.04	9.748	
13,000.00	11,722.84	13,565.67	12,250.10	24.12	48.06	173.18	1,456.27	-121.73	532.56	477.17	55.39	9.615	
13,100.00	11,721.96	13,649.71	12,247.18	25.22	48.64	173.24	1,540.24	-123.33	529.96	474.30	55.66	9.522	
13,112.61	11,721.85	13,659.25	12,247.04	25.36	48.71	173.22	1,549.77	-123.25	529.92	474.24	55.68	9.517	
13,200.00	11,721.09	13,742.44	12,247.08	26.34	49.29	172.91	1,632.94	-121.02	531.06	474.96	56.10	9.467	
13,300.00	11,720.21	13,829.37	12,247.04	27.49	49.93	172.57	1,719.82	-118.62	532.45	475.95	56.49	9.425	
13,400.00	11,719.33	13,916.06	12,249.68	28.65	50.59	171.95	1,806.30	-113.16	537.27	480.32	56.95	9.434	
13,500.00	11,718.46	14,009.14	12,253.89	29.83	51.32	171.31	1,899.09	-107.16	543.69	486.16	57.53	9.450	
13,600.00	11,717.58	14,102.68	12,259.21	31.03	52.08	170.72	1,992.30	-101.38	551.30	493.15	58.15	9.481	
13,700.00	11,716.70	14,203.89	12,265.82	32.25	52.93	170.18	2,093.14	-95.87	559.68	500.78	58.90	9.502	
13,800.00	11,715.83	14,317.07	12,271.92	33.47	53.91	169.84	2,206.09	-92.29	566.59	506.76	59.83	9.471	
13,900.00	11,714.95	14,454.09	12,273.79	34.71	55.14	169.75	2,343.06	-92.11	569.02	507.90	61.12	9.310	
14,000.00	11,714.07	14,579.28	12,267.58	35.95	56.30	169.22	2,468.05	-88.94	565.57	503.18	62.39	9.065	
14,100.00	11,713.20	14,679.99	12,259.56	37.21	57.26	168.53	2,568.33	-84.36	559.66	496.32	63.34	8.836	
14,200.00	11,712.32	14,771.24	12,253.32	38.47	58.15	167.91	2,659.27	-80.27	554.92	490.77	64.15	8.650	
14,300.00	11,711.44	14,862.49	12,248.95	39.74	59.05	167.51	2,750.39	-77.95	551.84	486.91	64.93	8.499	
14,400.00	11,710.57	14,956.25	12,246.13	41.02	59.99	167.29	2,844.09	-77.06	550.17	484.45	65.72	8.372	
14,500.00	11,709.69	15,050.47	12,244.75	42.30	60.95	167.32	2,938.29	-78.44	549.48	483.05	66.43	8.271	
14,510.71	11,709.60	15,060.49	12,244.69	42.44	61.05	167.34	2,948.31	-78.70	549.48	482.97	66.50	8.262	
14,600.00	11,708.81	15,144.58	12,244.81	43.59	61.92	167.55	3,032.35	-81.41	549.92	482.84	67.08	8.198	
14,700.00	11,707.94	15,242.61	12,245.79	44.88	62.95	167.86	3,130.31	-84.97	551.18	483.40	67.78	8.132	

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 154H
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 154H	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 (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,800.00	11,707.06	15,338.41	12,247.04	46.18	63.97	168.18	3,226.04	-88.61	552.73	484.30	68.43	8.077	
14,900.00	11,706.19	15,433.82	12,249.44	47.48	65.01	168.61	3,321.31	-93.09	555.31	486.27	69.04	8.043	
15,000.00	11,705.31	15,527.98	12,252.56	48.79	66.04	169.05	3,415.31	-97.56	558.68	489.06	69.62	8.025	
15,100.00	11,704.43	15,631.70	12,256.40	50.10	67.19	169.43	3,518.89	-101.40	562.68	492.24	70.44	7.988	
15,200.00	11,703.56	15,729.50	12,259.17	51.41	68.29	169.71	3,616.60	-104.45	565.94	494.77	71.18	7.951	
15,300.00	11,702.68	15,839.65	12,262.08	52.73	69.53	169.99	3,726.67	-107.70	569.08	496.88	72.20	7.882	
15,400.00	11,701.80	15,956.68	12,261.53	54.04	70.87	170.14	3,843.65	-110.20	569.24	495.80	73.45	7.750	
15,500.00	11,700.93	16,056.15	12,259.81	55.37	72.02	170.15	3,943.11	-111.36	568.37	494.00	74.37	7.642	
15,600.00	11,700.05	16,160.81	12,257.18	56.69	73.24	170.13	4,047.72	-112.52	566.71	491.28	75.43	7.513	
15,700.00	11,699.17	16,258.49	12,254.91	58.01	74.39	170.14	4,145.36	-113.76	565.23	488.90	76.33	7.405	
15,800.00	11,698.30	16,358.78	12,252.57	59.34	75.58	170.16	4,245.62	-115.17	563.72	486.42	77.30	7.293	
15,900.00	11,697.42	16,455.87	12,250.55	60.67	76.74	170.17	4,342.68	-116.38	562.48	484.27	78.21	7.192	
16,000.00	11,696.54	16,553.74	12,249.07	62.00	77.91	170.17	4,440.54	-117.46	561.83	482.69	79.14	7.099	
16,100.00	11,695.67	16,652.02	12,247.85	63.34	79.10	170.25	4,538.79	-119.21	561.33	481.27	80.06	7.012	
16,136.08	11,695.35	16,686.69	12,247.55	63.82	79.52	170.28	4,573.45	-119.86	561.28	480.92	80.37	6.984	
16,200.00	11,694.79	16,750.12	12,247.12	64.67	80.29	170.32	4,636.87	-120.90	561.33	480.36	80.97	6.932	
16,300.00	11,693.91	16,854.75	12,246.00	66.01	81.57	170.30	4,741.50	-121.65	561.19	479.07	82.12	6.834	
16,400.00	11,693.04	16,958.29	12,243.57	67.35	82.84	170.11	4,845.00	-121.05	560.00	476.66	83.34	6.720	
16,500.00	11,692.16	17,057.99	12,241.00	68.69	84.07	169.90	4,944.67	-120.26	558.62	474.13	84.49	6.612	
16,600.00	11,691.28	17,155.30	12,238.68	70.03	85.28	169.67	5,041.94	-119.12	557.52	471.90	85.62	6.512	
16,654.20	11,690.81	17,204.89	12,237.88	70.76	85.90	169.60	5,091.53	-119.00	557.25	471.14	86.11	6.471	
16,700.00	11,690.41	17,245.56	12,237.68	71.37	86.41	169.58	5,132.20	-119.15	557.46	470.99	86.47	6.447	
16,800.00	11,689.53	17,353.53	12,237.27	72.71	87.76	169.53	5,240.16	-119.58	558.08	470.30	87.78	6.358	
16,866.20	11,688.95	17,416.91	12,236.35	73.60	88.56	169.46	5,303.53	-119.52	557.84	469.37	88.47	6.306	
16,900.00	11,688.66	17,448.59	12,236.13	74.06	88.96	169.45	5,335.21	-119.75	557.91	469.13	88.78	6.284	
17,000.00	11,687.78	17,546.18	12,235.91	75.40	90.19	169.47	5,432.79	-120.81	558.53	468.76	89.77	6.222	
17,100.00	11,686.90	17,655.69	12,234.95	76.75	91.58	169.48	5,542.29	-121.93	558.52	467.41	91.11	6.130	
17,200.00	11,686.03	17,761.91	12,232.32	78.10	92.94	169.42	5,648.48	-122.61	557.00	464.59	92.41	6.027	
17,300.00	11,685.15	17,864.68	12,228.69	79.45	94.25	169.15	5,751.17	-121.52	554.76	460.97	93.79	5.915	
17,400.00	11,684.27	17,967.78	12,224.31	80.79	95.58	168.81	5,854.17	-119.74	551.96	456.71	95.26	5.794	
17,500.00	11,683.40	18,067.41	12,219.65	82.14	96.86	168.44	5,953.67	-117.89	548.79	452.11	96.68	5.676	
17,600.00	11,682.52	18,161.94	12,215.88	83.50	98.08	168.15	6,048.11	-116.56	546.22	448.29	97.93	5.578	
17,700.00	11,681.64	18,259.91	12,213.05	84.85	99.35	167.90	6,146.04	-115.50	544.67	445.42	99.25	5.488	
17,800.00	11,680.77	18,354.51	12,210.37	86.20	100.58	167.68	6,240.59	-114.65	543.17	442.70	100.47	5.406	
17,826.32	11,680.54	18,377.46	12,210.03	86.55	100.88	167.65	6,263.55	-114.56	543.09	442.38	100.71	5.392	
17,900.00	11,679.89	18,445.19	12,209.78	87.55	101.76	167.59	6,331.27	-114.62	543.58	442.13	101.45	5.358	
18,000.00	11,679.01	18,539.77	12,210.45	88.90	103.00	167.61	6,425.84	-115.32	545.17	442.74	102.44	5.322	
18,100.00	11,678.14	18,636.87	12,212.11	90.26	104.27	167.68	6,522.93	-116.45	547.65	444.21	103.44	5.294	
18,200.00	11,677.26	18,733.92	12,214.15	91.61	105.55	167.82	6,619.94	-118.09	550.41	446.03	104.38	5.273	
18,300.00	11,676.38	18,836.60	12,216.82	92.97	106.90	167.98	6,722.57	-119.89	553.66	448.19	105.47	5.249	
18,400.00	11,675.51	18,943.42	12,218.34	94.32	108.32	168.19	6,829.35	-122.41	555.61	448.96	106.65	5.210	
18,500.00	11,674.63	19,053.97	12,218.66	95.68	109.79	168.53	6,939.82	-126.56	556.20	448.42	107.77	5.161	
18,600.00	11,673.76	19,157.00	12,217.54	97.03	111.16	168.93	7,042.72	-131.63	555.20	446.60	108.61	5.112	
18,700.00	11,672.88	19,253.36	12,216.72	98.39	112.45	169.38	7,138.93	-136.91	554.39	445.17	109.21	5.076	
18,800.00	11,672.00	19,369.60	12,214.25	99.75	114.01	169.94	7,254.93	-143.77	552.21	441.95	110.26	5.008	
18,900.00	11,671.13	19,466.67	12,211.25	101.11	115.32	170.38	7,351.79	-149.38	549.19	438.28	110.91	4.952	
19,000.00	11,670.25	19,562.27	12,208.67	102.46	116.60	170.62	7,447.29	-152.96	546.93	435.22	111.71	4.896	
19,100.00	11,669.37	19,658.67	12,206.51	103.82	117.90	170.75	7,543.64	-155.29	545.35	432.71	112.65	4.841	
19,200.00	11,668.50	19,753.61	12,205.08	105.18	119.18	170.86	7,638.54	-157.39	544.53	430.99	113.55	4.796	
19,223.85	11,668.29	19,775.81	12,204.91	105.50	119.48	170.90	7,660.73	-157.99	544.50	430.76	113.73	4.788	
19,300.00	11,667.62	19,850.98	12,204.76	106.54	120.49	171.07	7,735.87	-160.28	544.75	430.33	114.42	4.761	
19,400.00	11,666.74	19,955.53	12,203.58	107.90	121.90	171.15	7,840.39	-162.01	544.38	428.74	115.65	4.707	

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 154H
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 154H	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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
19,500.00	11,665.87	20,053.46	12,202.03	109.26	123.22	171.08	7,938.31	-162.43	543.77	426.96	116.81	4.655	
19,527.19	11,665.63	20,079.19	12,201.74	109.63	123.57	171.06	7,964.04	-162.51	543.73	426.63	117.10	4.643	
19,600.00	11,664.99	20,145.93	12,201.43	110.62	124.47	171.03	8,030.77	-162.77	544.10	426.30	117.79	4.619	
19,700.00	11,664.11	20,247.96	12,202.00	111.98	125.85	171.00	8,132.80	-163.20	545.61	426.54	119.06	4.582	
19,800.00	11,663.24	20,351.44	12,200.95	113.34	127.25	170.88	8,236.28	-163.05	545.63	425.15	120.48	4.529	
19,900.00	11,662.36	20,459.48	12,199.64	114.70	128.71	170.86	8,344.31	-163.99	545.33	423.42	121.91	4.473	
20,000.00	11,661.48	20,555.85	12,197.62	116.06	130.03	170.90	8,440.64	-165.43	544.06	421.11	122.95	4.425	
20,100.00	11,660.61	20,658.21	12,196.07	117.42	131.42	170.98	8,542.97	-167.37	543.28	419.18	124.11	4.378	
20,200.00	11,659.73	20,760.17	12,194.05	118.78	132.82	171.13	8,644.88	-169.91	541.95	416.76	125.19	4.329	
20,300.00	11,658.85	20,855.00	12,192.83	120.15	134.11	171.35	8,739.65	-172.96	541.19	415.21	125.98	4.296	
20,336.13	11,658.54	20,888.35	12,192.68	120.64	134.57	171.45	8,772.98	-174.22	541.18	414.97	126.21	4.288	
20,400.00	11,657.98	20,952.84	12,192.30	121.51	135.45	171.62	8,837.43	-176.42	541.13	414.34	126.80	4.268	
20,500.00	11,657.10	21,057.11	12,191.49	122.87	136.89	172.02	8,941.58	-181.21	540.71	413.02	127.69	4.235	
20,600.00	11,656.23	21,165.60	12,188.88	124.23	138.38	172.41	9,049.92	-186.22	538.67	409.96	128.71	4.185	
20,700.00	11,655.35	21,260.08	12,186.56	125.60	139.68	172.75	9,144.27	-190.48	536.65	407.25	129.39	4.147	
20,800.00	11,654.47	21,359.89	12,185.27	126.96	141.06	173.17	9,243.95	-195.51	535.74	405.59	130.15	4.116	
20,900.00	11,653.60	21,469.06	12,181.71	128.32	142.57	173.44	9,352.99	-199.38	533.02	401.68	131.33	4.059	
21,000.00	11,652.72	21,567.34	12,178.16	129.69	143.93	173.65	9,451.15	-202.59	530.05	397.79	132.26	4.008	
21,100.00	11,651.84	21,669.78	12,174.47	131.05	145.34	173.74	9,553.50	-204.71	527.22	393.80	133.42	3.952	
21,200.00	11,650.97	21,775.40	12,169.14	132.41	146.79	173.33	9,658.96	-202.42	523.41	388.30	135.12	3.874	
21,300.00	11,650.09	21,871.86	12,163.69	133.78	148.11	172.78	9,755.19	-198.82	519.24	382.49	136.75	3.797	
21,400.00	11,649.21	21,973.44	12,158.45	135.14	149.50	172.17	9,856.56	-194.85	515.63	376.99	138.64	3.719	
21,500.00	11,648.34	22,069.37	12,153.53	136.51	150.82	171.67	9,952.31	-191.76	512.01	371.69	140.31	3.649	
21,600.00	11,647.46	22,166.57	12,149.40	137.87	152.16	171.23	10,049.39	-189.28	509.19	367.21	141.97	3.586	
21,700.00	11,646.58	22,261.24	12,146.13	139.24	153.46	170.87	10,143.98	-187.29	507.12	363.62	143.50	3.534	
21,763.54	11,646.03	22,317.12	12,144.96	140.10	154.23	170.71	10,199.84	-186.49	506.60	362.36	144.24	3.512	
21,800.00	11,645.71	22,348.79	12,144.75	140.60	154.67	170.66	10,231.52	-186.32	506.77	362.19	144.58	3.505	
21,900.00	11,644.83	22,440.86	12,145.87	141.97	155.94	170.66	10,323.57	-186.91	508.85	363.36	145.49	3.497	
21,946.87	11,644.42	22,465.00	12,146.27	142.61	156.27	170.67	10,347.71	-187.13	510.53	365.50	145.03	3.520	

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 154H
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 154H	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)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-91.04	-1.00	-55.00	55.02				
100.00	100.00	98.91	98.91	0.50	0.15	-91.24	-1.19	-55.07	55.09	54.43	0.66	84.072	
200.00	200.00	199.04	199.04	1.31	0.35	-91.82	-1.76	-55.26	55.28	53.62	1.66	33.257	
300.00	300.00	299.25	299.24	1.79	0.70	-92.34	-2.23	-54.76	54.81	52.31	2.49	21.975	
400.00	400.00	399.33	399.32	2.17	1.06	-93.54	-3.36	-54.25	54.36	51.13	3.23	16.830	
500.00	500.00	499.33	499.31	2.49	1.42	-95.14	-4.82	-53.53	53.75	49.84	3.91	13.738	
600.00	600.00	599.89	599.85	2.78	1.78	-96.61	-6.07	-52.37	52.73	48.17	4.56	11.560	
700.00	700.00	699.50	699.43	3.04	2.14	-98.43	-7.54	-50.90	51.45	46.27	5.18	9.930	
800.00	800.00	799.45	799.37	3.15	2.50	70.21	-8.91	-49.82	50.50	44.86	5.64	8.948	
900.00	899.96	898.97	898.89	3.43	2.85	72.32	-9.52	-49.55	49.49	43.27	6.21	7.966	
1,000.00	999.82	999.08	998.99	3.69	3.20	77.41	-10.25	-49.31	47.94	41.18	6.77	7.085	
1,100.00	1,099.51	1,098.72	1,098.64	3.94	3.55	86.62	-10.45	-48.91	46.44	39.13	7.31	6.355	
1,178.26	1,177.42	1,176.49	1,176.40	4.01	3.83	89.69	-10.97	-48.94	46.12	38.47	7.65	6.031	
1,200.00	1,199.01	1,198.04	1,197.95	4.03	3.90	91.21	-11.17	-49.02	46.50	38.76	7.74	6.006	
1,300.00	1,298.54	1,297.48	1,297.39	4.23	4.25	86.64	-11.98	-49.66	46.62	38.28	8.34	5.591	
1,400.00	1,398.09	1,397.04	1,396.95	4.45	4.58	82.51	-11.78	-49.99	46.09	37.16	8.93	5.159	
1,500.00	1,497.59	1,496.34	1,496.24	4.66	4.91	80.82	-11.51	-50.20	44.93	35.41	9.52	4.719	
1,600.00	1,596.97	1,595.95	1,595.85	4.87	5.25	82.95	-10.98	-51.05	44.18	34.08	10.10	4.374	
1,684.88	1,681.18	1,680.18	1,680.08	5.03	5.55	89.00	-11.07	-51.19	43.33	32.76	10.57	4.100 CC	
1,700.00	1,696.16	1,695.08	1,694.98	5.06	5.60	90.40	-11.04	-51.25	43.36	32.72	10.65	4.072 ES	
1,800.00	1,795.19	1,793.95	1,793.84	5.18	5.94	105.74	-10.31	-51.90	45.95	34.84	11.10	4.138	
1,900.00	1,894.22	1,893.51	1,893.40	5.36	6.28	120.04	-9.75	-52.38	51.85	40.25	11.60	4.470	
2,000.00	1,993.24	1,991.50	1,991.39	5.54	6.62	131.40	-9.69	-52.39	60.13	48.04	12.09	4.974	
2,100.00	2,092.27	2,087.72	2,087.52	5.72	6.95	141.42	-8.94	-48.70	73.40	60.84	12.56	5.845	
2,200.00	2,191.30	2,183.37	2,182.83	5.91	7.29	149.95	-8.24	-40.79	91.73	78.70	13.03	7.041	
2,300.00	2,290.32	2,279.69	2,278.70	6.09	7.63	155.61	-6.71	-31.60	112.93	99.41	13.52	8.353	
2,400.00	2,389.35	2,375.78	2,374.24	6.28	7.97	159.89	-5.71	-21.36	135.60	121.58	14.02	9.672	
2,500.00	2,488.41	2,471.58	2,469.38	6.40	8.31	163.30	-5.29	-10.13	159.29	144.83	14.46	11.017	
2,600.00	2,587.75	2,567.84	2,564.91	6.58	8.66	165.68	-4.54	1.66	181.86	166.87	15.00	12.128	
2,700.00	2,687.36	2,664.19	2,660.49	6.75	9.01	167.16	-2.95	13.76	202.72	187.19	15.53	13.056	
2,800.00	2,787.16	2,765.15	2,760.65	6.91	9.38	168.22	-1.17	26.24	221.02	204.92	16.11	13.723	
2,900.00	2,887.09	2,867.58	2,862.38	7.08	9.76	169.57	-2.06	38.10	235.33	218.64	16.69	14.103	
3,000.00	2,987.08	2,966.63	2,960.66	7.18	10.13	74.90	-6.12	49.74	246.52	229.38	17.14	14.384	
3,100.00	3,087.08	3,068.11	3,061.34	7.28	10.51	76.64	-11.00	61.43	256.54	238.92	17.62	14.583	
3,200.00	3,187.08	3,170.57	3,163.18	7.39	10.89	78.07	-15.32	71.87	265.57	247.47	18.10	14.672	
3,300.00	3,287.08	3,271.90	3,264.01	7.49	11.27	79.15	-18.57	81.36	274.13	255.56	18.57	14.760	
3,400.00	3,387.08	3,376.56	3,368.30	7.59	11.66	80.15	-21.99	89.41	281.11	262.04	19.07	14.744	
3,500.00	3,487.08	3,474.68	3,466.14	7.69	12.02	80.96	-24.97	96.16	287.41	267.90	19.51	14.730	
3,600.00	3,587.08	3,568.89	3,560.00	7.79	12.37	81.63	-27.17	104.09	295.37	275.44	19.93	14.820	
3,700.00	3,687.08	3,667.20	3,657.78	7.89	12.74	82.43	-30.05	113.80	304.76	284.38	20.38	14.955	
3,800.00	3,787.08	3,767.10	3,757.21	7.99	13.11	83.12	-32.56	123.15	313.73	292.89	20.84	15.055	
3,900.00	3,887.08	3,862.79	3,852.36	8.08	13.47	83.84	-35.45	132.88	323.50	302.23	21.27	15.211	
4,000.00	3,987.08	3,958.61	3,947.48	8.18	13.84	84.66	-39.08	143.88	334.55	312.86	21.70	15.420	
4,100.00	4,087.08	4,056.09	4,044.17	8.28	14.21	85.43	-42.60	155.80	346.44	324.30	22.14	15.648	
4,200.00	4,187.08	4,157.63	4,144.88	8.38	14.60	86.12	-45.90	168.24	358.43	335.81	22.62	15.849	
4,300.00	4,287.08	4,258.86	4,245.41	8.48	14.99	86.72	-49.00	179.70	369.54	346.45	23.09	16.005	
4,400.00	4,387.08	4,363.17	4,349.03	8.57	15.39	87.45	-53.16	190.91	380.10	356.52	23.58	16.119	
4,500.00	4,487.08	4,460.92	4,446.26	8.67	15.76	87.93	-55.97	200.59	389.88	365.86	24.03	16.228	
4,600.00	4,587.08	4,560.44	4,545.25	8.77	16.14	87.99	-56.04	210.84	400.17	375.69	24.48	16.345	
4,700.00	4,687.08	4,656.85	4,641.10	8.86	16.50	87.77	-54.14	220.92	410.69	385.78	24.92	16.483	
4,800.00	4,787.08	4,752.65	4,736.20	8.96	16.86	87.23	-49.75	231.63	422.07	396.73	25.34	16.654	
4,900.00	4,887.08	4,855.00	4,837.70	9.06	17.24	86.46	-43.36	243.10	433.64	407.82	25.81	16.798	

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 154H
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 154H	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)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,987.08	4,959.14	4,941.17	9.15	17.62	85.90	-38.41	253.85	444.25	417.96	26.30	16.894	
5,100.00	5,087.08	5,062.08	5,043.57	9.25	18.01	85.49	-34.47	263.62	454.02	427.25	26.77	16.960	
5,200.00	5,187.08	5,163.00	5,144.03	9.34	18.38	85.16	-31.09	272.52	463.07	435.84	27.23	17.006	
5,300.00	5,287.08	5,262.83	5,243.40	9.44	18.76	85.44	-32.61	281.91	472.33	444.65	27.69	17.060	
5,400.00	5,387.08	5,363.41	5,343.50	9.53	19.14	85.96	-36.25	290.97	481.05	452.90	28.15	17.091	
5,500.00	5,487.08	5,459.59	5,439.16	9.63	19.50	86.52	-40.36	300.12	490.27	461.69	28.58	17.152	
5,600.00	5,587.08	5,559.14	5,538.15	9.72	19.88	87.01	-44.06	310.03	500.01	470.97	29.04	17.218	
5,700.00	5,687.08	5,659.16	5,637.62	9.81	20.26	87.51	-47.95	319.67	509.46	479.96	29.50	17.271	
5,800.00	5,787.08	5,755.14	5,733.07	9.91	20.63	87.93	-51.36	329.19	519.24	489.30	29.93	17.346	
5,900.00	5,887.08	5,853.90	5,831.23	10.00	21.01	88.34	-54.70	339.60	529.67	499.28	30.39	17.432	
6,000.00	5,987.08	5,955.66	5,932.37	10.09	21.40	88.76	-58.34	350.03	539.83	508.98	30.85	17.497	
6,100.00	6,087.08	6,058.19	6,034.26	10.19	21.79	89.37	-64.02	360.05	549.54	518.21	31.32	17.544	
6,200.00	6,187.08	6,161.61	6,137.10	10.28	22.18	89.94	-69.40	369.49	558.65	526.85	31.80	17.569	
6,300.00	6,287.08	6,264.46	6,239.48	10.37	22.57	90.40	-73.94	378.20	567.13	534.87	32.27	17.577	
6,400.00	6,387.08	6,360.24	6,334.84	10.47	22.93	90.78	-77.80	386.38	575.71	543.01	32.70	17.605	
6,500.00	6,487.08	6,462.25	6,436.37	10.56	23.32	91.18	-82.01	395.18	584.43	551.26	33.17	17.620	
6,600.00	6,587.08	6,564.93	6,538.62	10.65	23.71	91.62	-86.66	403.51	592.65	559.01	33.63	17.620	
6,700.00	6,687.08	6,663.91	6,637.21	10.74	24.08	91.97	-90.59	411.29	600.64	566.55	34.08	17.622	
6,800.00	6,787.08	6,759.72	6,732.61	10.84	24.44	92.29	-94.28	419.34	609.17	574.65	34.52	17.646	
6,900.00	6,887.08	6,859.43	6,831.85	10.93	24.82	92.67	-98.64	427.88	617.94	582.96	34.98	17.668	
7,000.00	6,987.08	6,960.60	6,932.57	11.02	25.20	93.02	-102.89	436.55	626.71	591.27	35.44	17.686	
7,100.00	7,087.08	7,062.69	7,034.27	11.11	25.59	93.29	-106.35	444.74	634.90	599.00	35.90	17.686	
7,200.00	7,187.08	7,160.91	7,132.13	11.20	25.96	93.46	-108.66	452.77	643.20	606.86	36.35	17.697	
7,300.00	7,287.08	7,263.51	7,234.35	11.29	26.34	93.66	-111.49	461.12	651.51	614.70	36.81	17.699	
7,400.00	7,387.08	7,364.91	7,335.43	11.38	26.72	93.84	-114.07	468.75	659.18	621.91	37.27	17.687	
7,500.00	7,487.08	7,468.30	7,438.53	11.47	27.11	93.88	-115.04	476.49	666.71	628.98	37.73	17.669	
7,600.00	7,587.08	7,571.43	7,541.42	11.57	27.49	93.91	-115.81	483.50	673.54	635.35	38.19	17.634	
7,700.00	7,687.08	7,674.10	7,643.87	11.66	27.87	93.96	-116.88	490.04	679.97	641.31	38.65	17.591	
7,800.00	7,787.08	7,776.34	7,745.92	11.75	28.24	94.03	-118.14	496.13	686.00	646.89	39.11	17.540	
7,900.00	7,887.08	7,884.61	7,854.03	11.84	28.64	94.19	-120.44	501.56	691.15	651.57	39.58	17.461	
8,000.00	7,987.08	7,981.70	7,950.98	11.93	28.99	94.34	-122.55	506.12	696.00	655.97	40.02	17.389	
8,100.00	8,087.08	8,080.37	8,049.52	12.02	29.35	94.43	-124.06	511.17	701.21	660.74	40.47	17.327	
8,200.00	8,187.08	8,188.80	8,157.81	12.11	29.74	94.59	-126.47	516.12	705.95	665.01	40.94	17.244	
8,300.00	8,287.08	8,295.17	8,264.11	12.20	30.12	94.72	-128.29	519.42	709.16	667.76	41.40	17.129	
8,400.00	8,387.08	8,391.92	8,360.80	12.29	30.47	94.75	-128.97	522.63	712.53	670.69	41.84	17.030	
8,500.00	8,487.08	8,490.65	8,459.46	12.38	30.82	94.82	-130.16	526.16	716.19	673.91	42.28	16.938	
8,600.00	8,587.08	8,597.14	8,565.88	12.47	31.20	94.91	-131.59	529.75	719.67	676.93	42.74	16.837	
8,700.00	8,687.08	8,703.68	8,672.38	12.56	31.58	94.99	-132.73	532.04	721.91	678.71	43.20	16.711	
8,800.00	8,787.08	8,811.20	8,779.88	12.65	31.95	95.12	-134.56	533.42	723.33	679.68	43.65	16.570	
8,900.00	8,887.08	8,904.06	8,872.69	12.73	32.27	95.34	-137.39	534.33	724.60	680.52	44.08	16.438	
9,000.00	8,987.08	9,014.45	8,982.99	12.82	32.65	95.66	-141.64	535.32	725.87	681.34	44.53	16.300	
9,100.00	9,087.08	9,121.87	9,090.36	12.91	33.01	95.94	-145.14	534.72	725.63	680.66	44.97	16.136	
9,200.00	9,187.08	9,218.44	9,186.88	13.00	33.33	96.19	-148.20	534.18	725.41	680.01	45.39	15.980	
9,300.00	9,287.08	9,323.20	9,291.60	13.09	33.68	96.40	-150.78	533.34	724.88	679.05	45.83	15.817	
9,400.00	9,387.08	9,423.96	9,392.32	13.18	34.01	96.60	-153.17	532.27	724.09	677.84	46.25	15.655	
9,500.00	9,487.08	9,526.43	9,494.79	13.27	34.34	96.63	-153.50	531.20	723.09	676.41	46.67	15.493	
9,600.00	9,587.08	9,620.26	9,588.61	13.36	34.64	96.69	-154.15	530.06	721.98	674.90	47.09	15.332	
9,616.42	9,603.50	9,634.15	9,602.50	13.37	34.69	96.70	-154.23	530.03	721.96	674.80	47.16	15.310	
9,700.00	9,687.08	9,709.49	9,677.83	13.45	34.95	96.72	-154.52	530.57	722.58	675.07	47.51	15.209	
9,800.00	9,787.08	9,809.24	9,777.57	13.53	35.30	96.78	-155.40	531.76	723.87	675.92	47.95	15.096	
9,900.00	9,887.08	9,908.44	9,876.76	13.62	35.64	96.87	-156.73	532.65	724.91	676.52	48.39	14.980	
10,000.00	9,987.08	10,018.17	9,986.46	13.71	36.02	97.00	-158.54	533.67	726.09	677.25	48.84	14.867	

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 154H
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 154H	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		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	
10,100.00	10,087.08	10,126.51	10,094.79	13.80	36.37	96.88	-156.92	532.86	725.14	675.88	49.27	14.718		
10,200.00	10,187.08	10,221.97	10,190.23	13.89	36.68	96.77	-155.32	532.12	724.17	674.49	49.68	14.576		
10,300.00	10,287.08	10,327.78	10,296.03	13.98	37.03	96.62	-153.40	531.46	723.36	673.25	50.11	14.437		
10,400.00	10,387.08	10,427.01	10,395.24	14.06	37.35	96.54	-152.22	530.24	721.99	671.47	50.52	14.291		
10,498.70	10,485.79	10,516.57	10,484.79	14.15	37.64	96.47	-151.26	529.76	721.36	670.43	50.93	14.165		
10,500.00	10,487.08	10,517.74	10,485.96	14.15	37.64	96.47	-151.25	529.77	721.36	670.42	50.93	14.163		
10,600.00	10,587.08	10,620.15	10,588.36	14.24	37.98	96.34	-149.63	529.85	721.26	669.90	51.36	14.043		
10,630.21	10,617.29	10,648.11	10,616.32	14.27	38.08	96.29	-149.08	529.87	721.22	669.73	51.49	14.008		
10,700.00	10,687.08	10,714.00	10,682.19	14.33	38.30	96.21	-148.02	530.21	721.45	669.67	51.78	13.933		
10,800.00	10,787.08	10,814.91	10,783.09	14.41	38.64	96.10	-146.78	530.87	721.97	669.75	52.21	13.827		
10,900.00	10,887.08	10,909.93	10,878.11	14.50	38.97	96.07	-146.47	531.70	722.80	670.16	52.64	13.731		
11,000.00	10,987.08	11,020.78	10,988.95	14.59	39.34	96.07	-146.50	532.00	723.07	669.98	53.08	13.622		
11,100.00	11,087.08	11,123.90	11,092.07	14.68	39.68	96.03	-145.91	531.34	722.36	668.86	53.50	13.501		
11,200.00	11,187.07	11,229.14	11,197.27	14.75	40.03	94.89	-142.85	530.68	721.51	667.61	53.90	13.385		
11,300.00	11,286.00	11,351.91	11,319.91	14.93	40.42	96.16	-139.17	527.34	719.82	665.53	54.29	13.259		
11,367.45	11,350.70	11,413.97	11,381.90	15.05	40.62	97.65	-139.19	524.14	718.64	664.13	54.51	13.184		
11,400.00	11,381.03	11,438.87	11,406.77	15.11	40.70	98.37	-139.44	523.07	718.98	664.37	54.61	13.166		
11,500.00	11,469.29	11,523.40	11,491.24	15.27	40.98	101.08	-140.72	520.20	724.46	669.55	54.91	13.193		
11,600.00	11,548.09	11,601.08	11,568.87	15.42	41.23	103.59	-141.57	517.44	737.23	682.01	55.22	13.352		
11,700.00	11,615.03	11,667.00	11,634.74	15.54	41.44	105.11	-142.42	515.18	760.14	704.60	55.54	13.687		
11,800.00	11,668.09	11,995.03	11,935.49	15.66	42.33	117.70	-34.58	498.28	781.47	725.42	56.05	13.943		
11,900.00	11,705.65	12,076.60	11,997.96	15.79	42.48	118.56	17.68	494.30	800.63	744.24	56.39	14.197		
12,000.00	11,726.57	12,138.00	12,042.47	16.00	42.59	117.79	59.87	496.44	833.19	776.45	56.74	14.685		
12,100.00	11,730.73	12,613.12	12,246.27	16.38	43.64	126.62	474.86	517.23	866.87	809.53	57.34	15.117		
12,200.00	11,729.85	12,723.24	12,247.96	16.93	43.98	126.54	584.79	523.39	873.11	815.16	57.95	15.068		
12,300.00	11,728.97	12,824.48	12,248.97	17.60	44.33	126.37	685.84	529.36	879.74	821.10	58.64	15.003		
12,400.00	11,728.10	12,917.59	12,250.46	18.36	44.70	126.25	778.79	534.75	886.63	827.24	59.39	14.930		
12,500.00	11,727.22	13,043.36	12,252.93	19.19	45.25	126.19	904.42	539.84	892.31	831.94	60.37	14.781		
12,600.00	11,726.34	13,157.78	12,254.33	20.09	45.80	126.19	1,018.81	542.15	895.96	834.57	61.39	14.595		
12,700.00	11,725.47	13,264.61	12,255.64	21.03	46.35	126.26	1,125.63	542.30	898.07	835.63	62.44	14.383		
12,800.00	11,724.59	13,367.23	12,258.28	22.02	46.92	126.45	1,228.21	541.14	899.98	836.46	63.51	14.170		
12,900.00	11,723.71	13,471.99	12,261.69	23.06	47.55	126.72	1,332.88	538.81	901.42	836.77	64.64	13.944		
13,000.00	11,722.84	13,581.69	12,265.76	24.12	48.24	127.08	1,442.43	534.93	902.11	836.27	65.84	13.701		
13,100.00	11,721.96	13,707.42	12,265.31	25.22	49.09	127.24	1,568.07	530.52	900.28	833.02	67.26	13.385		
13,200.00	11,721.09	13,802.04	12,261.52	26.34	49.76	127.11	1,662.59	528.94	897.82	829.21	68.61	13.085		
13,300.00	11,720.21	13,897.37	12,257.90	27.49	50.47	126.97	1,757.85	528.01	896.04	826.01	70.03	12.795		
13,400.00	11,719.33	13,997.21	12,255.13	28.65	51.24	126.90	1,857.64	526.44	894.40	822.89	71.51	12.508		
13,500.00	11,718.46	14,099.70	12,253.41	29.83	52.05	126.91	1,960.08	524.04	892.81	819.79	73.02	12.227		
13,600.00	11,717.58	14,201.48	12,251.53	31.03	52.89	126.94	2,061.81	521.06	890.65	816.08	74.57	11.944		
13,700.00	11,716.70	14,297.66	12,251.05	32.25	53.70	127.06	2,157.92	517.64	888.80	812.73	76.07	11.684		
13,800.00	11,715.83	14,395.30	12,251.46	33.47	54.54	127.23	2,255.49	513.93	887.31	809.71	77.59	11.435		
13,900.00	11,714.95	14,523.30	12,253.09	34.71	55.69	127.61	2,383.27	506.66	885.00	805.70	79.30	11.161		
14,000.00	11,714.07	14,607.88	12,253.26	35.95	56.46	127.84	2,467.66	501.14	881.26	800.52	80.73	10.916		
14,100.00	11,713.20	14,689.22	12,254.00	37.21	57.23	128.03	2,548.92	497.44	879.52	797.35	82.17	10.704		
14,132.54	11,712.91	14,716.00	12,254.38	37.62	57.48	128.09	2,575.68	496.60	879.42	796.78	82.64	10.641		
14,200.00	11,712.32	14,782.61	12,255.41	38.47	58.12	128.22	2,642.25	494.76	879.47	795.75	83.73	10.504		
14,300.00	11,711.44	14,887.40	12,256.22	39.74	59.14	128.37	2,747.01	492.28	879.39	793.95	85.44	10.292		
14,400.00	11,710.57	14,990.17	12,254.62	41.02	60.17	128.34	2,849.76	491.03	878.75	791.49	87.26	10.070		
14,470.47	11,709.95	15,053.99	12,253.54	41.92	60.81	128.31	2,913.57	490.46	878.44	789.96	88.48	9.928		
14,500.00	11,709.69	15,080.20	12,253.38	42.30	61.08	128.32	2,939.78	490.22	878.50	789.52	88.98	9.873		
14,600.00	11,708.81	15,161.51	12,254.13	43.59	61.91	128.38	3,021.08	489.69	879.87	789.33	90.55	9.717		
14,700.00	11,707.94	15,265.19	12,255.98	44.88	62.99	128.46	3,124.74	490.15	882.63	790.25	92.38	9.555		

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 154H
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 154H	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				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)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,800.00	11,707.06	15,396.01	12,252.41	46.18	64.38	128.24	3,255.49	491.52	883.07	788.32	94.74	9.321	
14,900.00	11,706.19	15,513.16	12,245.20	47.48	65.65	127.89	3,372.41	491.23	880.31	783.25	97.06	9.070	
15,000.00	11,705.31	15,606.81	12,238.73	48.79	66.69	127.57	3,465.84	490.96	877.15	777.99	99.16	8.846	
15,100.00	11,704.43	15,698.33	12,233.83	50.10	67.70	127.32	3,557.22	491.02	875.22	774.01	101.21	8.647	
15,200.00	11,703.56	15,797.15	12,229.66	51.41	68.81	127.13	3,655.95	490.59	873.61	770.29	103.32	8.455	
15,300.00	11,702.68	15,906.32	12,225.73	52.73	70.05	126.97	3,765.05	489.56	872.01	766.48	105.53	8.263	
15,400.00	11,701.80	15,992.95	12,220.28	54.04	71.04	126.69	3,851.50	489.46	869.54	761.91	107.63	8.079	
15,427.59	11,701.56	16,011.93	12,219.61	54.41	71.25	126.66	3,870.47	489.54	869.40	761.28	108.12	8.041	
15,500.00	11,700.93	16,067.27	12,219.03	55.37	71.89	126.62	3,925.80	489.93	870.25	760.83	109.42	7.954	
15,600.00	11,700.05	16,157.70	12,219.95	56.69	72.93	126.64	4,016.22	490.80	872.91	761.61	111.30	7.843	
15,700.00	11,699.17	16,266.88	12,222.71	58.01	74.20	126.80	4,125.37	490.75	875.69	762.35	113.34	7.726	
15,800.00	11,698.30	16,368.92	12,221.79	59.34	75.40	126.73	4,227.39	491.45	876.97	761.49	115.49	7.594	
15,900.00	11,697.42	16,460.29	12,223.18	60.67	76.48	126.79	4,318.75	491.96	879.59	762.20	117.38	7.493	
16,000.00	11,696.54	16,563.77	12,224.49	62.00	77.72	126.85	4,422.22	492.44	882.00	762.54	119.45	7.384	
16,100.00	11,695.67	16,663.63	12,225.62	63.34	78.91	126.89	4,522.07	492.98	884.40	762.91	121.50	7.279	
16,200.00	11,694.79	16,765.72	12,226.93	64.67	80.14	126.96	4,624.15	493.25	886.67	763.11	123.56	7.176	
16,300.00	11,693.91	16,882.25	12,225.93	66.01	81.56	126.88	4,740.66	494.19	888.13	762.17	125.96	7.051	
16,400.00	11,693.04	16,981.95	12,222.67	67.35	82.78	126.68	4,840.30	495.21	888.28	760.00	128.28	6.924	
16,500.00	11,692.16	17,111.04	12,217.34	68.69	84.38	126.43	4,969.27	494.85	886.87	755.88	130.99	6.770	
16,600.00	11,691.28	17,217.62	12,211.07	70.03	85.70	126.18	5,075.65	493.05	883.29	749.82	133.47	6.618	
16,700.00	11,690.41	17,317.67	12,206.01	71.37	86.96	126.02	5,175.55	490.72	879.71	743.89	135.82	6.477	
16,800.00	11,689.53	17,421.51	12,201.62	72.71	88.27	125.93	5,279.23	487.16	875.73	737.61	138.12	6.340	
16,900.00	11,688.66	17,522.40	12,197.67	74.06	89.54	125.89	5,379.96	483.12	871.48	731.12	140.36	6.209	
17,000.00	11,687.78	17,610.52	12,194.94	75.40	90.66	125.89	5,467.96	479.52	867.66	725.20	142.46	6.091	
17,100.00	11,686.90	17,699.76	12,194.39	76.75	91.79	126.00	5,557.14	476.21	865.57	721.14	144.43	5.993	
17,200.00	11,686.03	17,799.34	12,194.69	78.10	93.06	126.17	5,656.65	472.50	864.02	717.60	146.42	5.901	
17,300.00	11,685.15	17,897.14	12,195.35	79.45	94.31	126.37	5,754.37	468.51	862.41	714.07	148.35	5.814	
17,400.00	11,684.27	17,996.73	12,196.76	80.79	95.59	126.62	5,853.86	464.36	861.19	710.96	150.23	5.732	
17,500.00	11,683.40	18,097.38	12,198.64	82.14	96.89	126.91	5,954.38	459.61	859.81	707.76	152.05	5.655	
17,600.00	11,682.52	18,193.71	12,200.97	83.50	98.14	127.24	6,050.56	454.84	858.61	704.82	153.79	5.583	
17,700.00	11,681.64	18,329.40	12,199.73	84.85	99.90	127.41	6,186.07	449.18	856.18	700.12	156.06	5.486	
17,800.00	11,680.77	18,432.20	12,193.78	86.20	101.25	127.25	6,288.64	445.64	851.22	692.72	158.50	5.370	
17,900.00	11,679.89	18,531.05	12,187.29	87.55	102.55	127.06	6,387.21	441.94	845.56	684.58	160.98	5.253	
18,000.00	11,679.01	18,616.24	12,183.14	88.90	103.67	126.96	6,472.24	438.97	841.13	677.88	163.24	5.153	
18,100.00	11,678.14	18,700.68	12,180.80	90.26	104.78	126.94	6,556.61	436.52	838.44	673.08	165.36	5.070	
18,168.29	11,677.54	18,754.62	12,180.82	91.18	105.49	127.01	6,610.53	435.05	837.86	671.24	166.62	5.029	
18,200.00	11,677.26	18,783.00	12,181.46	91.61	105.86	127.08	6,638.89	434.27	837.99	670.82	167.17	5.013	
18,300.00	11,676.38	18,867.37	12,184.13	92.97	106.97	127.30	6,723.20	432.56	839.54	670.71	168.83	4.973	
18,400.00	11,675.51	18,967.94	12,186.09	94.32	108.30	127.42	6,823.74	432.38	841.87	670.99	170.87	4.927	
18,500.00	11,674.63	19,070.13	12,185.60	95.68	109.64	127.35	6,925.93	433.75	843.94	670.69	173.25	4.871	
18,600.00	11,673.76	19,171.70	12,184.61	97.03	110.98	127.24	7,027.48	435.18	845.76	670.09	175.67	4.815	
18,700.00	11,672.88	19,269.85	12,183.46	98.39	112.28	127.12	7,125.61	436.86	847.70	669.64	178.06	4.761	
18,800.00	11,672.00	19,376.12	12,180.33	99.75	113.69	126.85	7,231.80	439.49	849.18	668.35	180.83	4.696	
18,900.00	11,671.13	19,473.69	12,177.51	101.11	114.98	126.62	7,329.30	441.69	850.55	667.13	183.42	4.637	
19,000.00	11,670.25	19,570.81	12,175.89	102.46	116.28	126.47	7,426.39	443.43	852.28	666.41	185.87	4.585	
19,100.00	11,669.37	19,669.56	12,175.48	103.82	117.59	126.41	7,525.13	444.54	854.23	666.02	188.21	4.539	
19,200.00	11,668.50	19,780.48	12,175.32	105.18	119.07	126.39	7,636.05	445.30	856.02	665.33	190.69	4.489	
19,300.00	11,667.62	19,895.83	12,172.24	106.54	120.62	126.23	7,751.36	445.18	855.61	662.19	193.42	4.424	
19,400.00	11,666.74	19,993.18	12,169.57	107.90	121.93	126.13	7,848.66	444.34	854.58	658.74	195.84	4.364	
19,500.00	11,665.87	20,088.94	12,168.44	109.26	123.22	126.13	7,944.41	443.07	854.10	656.02	198.08	4.312	
19,548.18	11,665.44	20,135.05	12,167.61	109.91	123.85	126.10	7,990.50	442.87	854.04	654.83	199.21	4.287	
19,600.00	11,664.99	20,184.52	12,166.76	110.62	124.51	126.06	8,039.97	442.79	854.11	653.68	200.43	4.261	

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 154H
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 154H	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		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)					
19,700.00	11,664.11	20,268.89	12,166.90	111.98	125.65	126.09	8,124.33	442.45	855.20	652.77	202.43	4.225			
19,800.00	11,663.24	20,374.43	12,170.35	113.34	127.08	126.34	8,229.80	441.09	857.40	653.04	204.37	4.195			
19,900.00	11,662.36	20,510.20	12,167.65	114.70	128.92	126.27	8,365.50	439.61	856.58	649.37	207.21	4.134			
20,000.00	11,661.48	20,618.23	12,160.80	116.06	130.40	125.95	8,473.30	438.50	853.28	643.13	210.14	4.060			
20,100.00	11,660.61	20,719.85	12,154.20	117.42	131.78	125.66	8,574.69	436.94	849.52	636.53	212.99	3.989			
20,200.00	11,659.73	20,820.61	12,147.70	118.78	133.16	125.38	8,675.23	435.21	845.65	629.82	215.83	3.918			
20,300.00	11,658.85	20,911.14	12,142.15	120.15	134.40	125.14	8,765.58	433.70	842.06	623.51	218.55	3.853			
20,400.00	11,657.98	20,993.28	12,138.05	121.51	135.52	124.93	8,847.61	433.50	840.28	619.17	221.11	3.800			
20,428.19	11,657.73	21,015.91	12,137.23	121.89	135.83	124.88	8,870.23	433.62	840.18	618.39	221.79	3.788			
20,500.00	11,657.10	21,072.76	12,135.94	122.87	136.60	124.79	8,927.06	434.23	840.80	617.40	223.41	3.764			
20,600.00	11,656.23	21,152.40	12,136.63	124.23	137.69	124.79	9,006.68	435.53	843.90	618.57	225.33	3.745			
20,700.00	11,655.35	21,251.75	12,139.54	125.60	139.04	124.91	9,105.97	437.10	848.15	620.72	227.43	3.729			
20,800.00	11,654.47	21,357.05	12,143.24	126.96	140.48	125.08	9,211.21	438.06	852.21	622.68	229.53	3.713			
20,900.00	11,653.60	21,480.84	12,146.20	128.32	142.17	125.27	9,334.96	437.86	854.81	622.87	231.93	3.686			
21,000.00	11,652.72	21,595.69	12,145.26	129.69	143.75	125.30	9,449.79	436.18	854.37	619.96	234.41	3.645			
21,100.00	11,651.84	21,701.26	12,143.38	131.05	145.20	125.28	9,555.32	434.28	853.16	616.32	236.83	3.602			
21,200.00	11,650.97	21,811.25	12,139.64	132.41	146.72	125.16	9,665.23	432.33	851.03	611.54	239.49	3.553			
21,300.00	11,650.09	21,914.32	12,136.15	133.78	148.14	125.09	9,768.20	429.42	848.05	606.05	242.00	3.504			
21,400.00	11,649.21	22,011.61	12,133.44	135.14	149.49	125.07	9,865.40	426.44	845.23	600.85	244.38	3.459			
21,500.00	11,648.34	22,113.40	12,130.92	136.51	150.90	125.08	9,967.09	422.80	842.16	595.45	246.71	3.414			
21,600.00	11,647.46	22,207.77	12,130.93	137.87	152.20	125.26	10,061.36	418.47	839.69	591.05	248.63	3.377			
21,700.00	11,646.58	22,315.69	12,131.40	139.24	153.70	125.53	10,169.14	412.82	836.96	586.50	250.46	3.342			
21,800.00	11,645.71	22,416.96	12,132.72	140.60	155.11	125.88	10,270.17	406.04	833.56	581.54	252.02	3.307			
21,900.00	11,644.83	22,513.00	12,133.99	141.97	156.44	126.22	10,365.98	399.58	830.18	576.62	253.57	3.274			
21,924.17	11,644.62	22,513.00	12,133.99	142.30	156.44	126.22	10,365.98	399.58	829.83	575.94	253.90	3.268			
21,946.87	11,644.42	22,513.00	12,133.99	142.61	156.44	126.22	10,365.98	399.58	830.14	576.12	254.03	3.268 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 154H
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 154H	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					Rule Assigned:			Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Minimum Separation (usft)	
0.00	0.00	0.00	0.00	0.00	0.00	-90.88	-2.00	-130.00	130.02					
100.00	100.00	98.37	98.36	0.50	0.15	-91.13	-2.57	-130.61	130.64	129.98	0.66	199.211		
200.00	200.00	197.06	197.02	1.31	0.36	-91.83	-4.22	-132.39	132.50	130.83	1.67	79.500		
300.00	300.00	297.38	297.31	1.79	0.72	-92.54	-5.96	-134.53	134.69	132.18	2.50	53.770		
400.00	400.00	397.88	397.78	2.17	1.08	-93.17	-7.55	-136.26	136.49	133.25	3.24	42.076		
500.00	500.00	496.69	496.56	2.49	1.43	-93.78	-9.13	-138.10	138.45	134.53	3.92	35.291		
600.00	600.00	596.57	596.39	2.78	1.80	-94.44	-10.91	-140.56	141.03	136.46	4.57	30.854		
700.00	700.00	696.77	696.56	3.04	2.16	-94.83	-12.09	-142.96	143.51	138.31	5.19	27.629		
800.00	800.00	796.57	796.33	3.15	2.52	75.00	-13.00	-145.35	145.89	140.24	5.65	25.800		
900.00	899.96	896.97	896.70	3.43	2.88	75.83	-13.53	-147.78	147.69	141.46	6.23	23.713		
1,000.00	999.82	997.46	997.16	3.69	3.23	77.90	-13.38	-149.66	148.36	141.57	6.79	21.856		
1,100.00	1,099.51	1,097.38	1,097.07	3.94	3.59	80.91	-13.29	-151.43	148.69	141.35	7.34	20.262		
1,200.00	1,199.01	1,197.49	1,197.17	4.03	3.95	77.92	-13.30	-152.83	148.55	140.77	7.78	19.101		
1,300.00	1,298.54	1,297.19	1,296.86	4.23	4.30	66.33	-13.14	-153.99	146.79	138.43	8.36	17.556		
1,400.00	1,398.09	1,396.78	1,396.45	4.45	4.66	53.85	-12.94	-155.12	143.21	134.27	8.94	16.019		
1,500.00	1,497.59	1,496.62	1,496.28	4.66	5.01	42.70	-12.81	-156.21	137.60	128.10	9.51	14.475		
1,600.00	1,596.97	1,596.43	1,596.08	4.87	5.37	34.25	-12.51	-156.95	129.65	119.59	10.06	12.888		
1,700.00	1,696.16	1,695.89	1,695.54	5.06	5.71	28.58	-12.10	-157.44	119.36	108.76	10.60	11.259		
1,800.00	1,795.19	1,795.13	1,794.78	5.18	6.06	30.78	-11.64	-157.73	107.64	96.55	11.09	9.709		
1,900.00	1,894.22	1,894.11	1,893.76	5.36	6.41	35.14	-11.27	-157.99	96.31	84.68	11.63	8.283		
2,000.00	1,993.24	1,992.81	1,992.45	5.54	6.76	40.03	-11.48	-158.91	85.92	73.74	12.18	7.056		
2,100.00	2,092.27	2,091.80	2,091.38	5.72	7.11	44.24	-13.56	-161.72	76.63	63.91	12.73	6.021		
2,200.00	2,191.30	2,191.83	2,191.28	5.91	7.47	48.26	-17.00	-165.46	67.65	54.36	13.28	5.093		
2,300.00	2,290.32	2,291.45	2,290.81	6.09	7.83	54.39	-20.26	-168.03	58.42	44.57	13.84	4.220		
2,400.00	2,389.35	2,390.48	2,389.77	6.28	8.18	63.08	-23.17	-170.33	50.22	35.81	14.41	3.485		
2,500.00	2,488.41	2,489.49	2,488.70	6.40	8.54	73.45	-25.68	-173.54	44.41	29.50	14.91	2.978		
2,600.00	2,587.75	2,589.07	2,588.18	6.58	8.90	82.64	-27.87	-177.32	41.13	25.66	15.46	2.660		
2,700.00	2,687.36	2,688.75	2,687.80	6.75	9.26	90.39	-29.55	-180.41	39.46	23.47	15.99	2.468		
2,800.00	2,787.16	2,788.50	2,787.51	6.91	9.62	95.46	-30.64	-183.08	38.85	22.34	16.50	2.354		
2,900.00	2,887.09	2,888.65	2,887.49	7.08	9.98	92.46	-31.95	-188.64	38.03	21.02	17.01	2.236		
2,988.99	2,976.07	2,977.45	2,976.06	7.17	10.31	84.75	-33.24	-194.73	37.55	20.13	17.42	2.156 CC		
3,000.00	2,987.08	2,988.42	2,987.01	7.18	10.35	-12.97	-33.38	-195.44	37.58	20.11	17.47	2.151 ES		
3,100.00	3,087.08	3,088.18	3,086.60	7.28	10.71	-21.72	-34.39	-201.18	38.33	20.39	17.94	2.137 SF		
3,200.00	3,187.08	3,187.95	3,186.24	7.39	11.07	-28.87	-34.94	-206.33	40.04	21.64	18.40	2.176		
3,300.00	3,287.08	3,287.86	3,286.02	7.49	11.43	-35.06	-35.26	-211.37	42.45	23.59	18.86	2.251		
3,400.00	3,387.08	3,388.00	3,386.07	7.59	11.80	-39.74	-35.53	-215.66	44.85	25.52	19.32	2.321		
3,500.00	3,487.08	3,488.07	3,486.07	7.69	12.16	-43.35	-35.82	-219.26	47.01	27.23	19.78	2.376		
3,600.00	3,587.08	3,587.37	3,585.28	7.79	12.52	-47.34	-36.42	-223.43	49.58	29.34	20.24	2.450		
3,700.00	3,687.08	3,686.90	3,684.55	7.89	12.88	-53.51	-37.84	-230.48	54.14	33.44	20.69	2.616		
3,800.00	3,787.08	3,787.58	3,785.01	7.99	13.25	-58.65	-39.65	-236.83	58.38	37.22	21.16	2.759		
3,900.00	3,887.08	3,888.32	3,885.60	8.08	13.62	-62.99	-42.17	-241.60	61.30	39.68	21.62	2.836		
4,000.00	3,987.08	3,989.30	3,986.49	8.18	13.98	-66.60	-44.96	-244.86	63.05	40.98	22.07	2.857		
4,100.00	4,087.08	4,089.63	4,086.77	8.28	14.34	-69.42	-47.62	-246.59	63.66	41.14	22.52	2.827		
4,200.00	4,187.08	4,189.12	4,186.19	8.38	14.70	-72.87	-51.00	-248.66	64.53	41.56	22.97	2.809		
4,300.00	4,287.08	4,289.02	4,285.99	8.48	15.06	-76.37	-54.43	-251.22	66.09	42.67	23.42	2.822		
4,400.00	4,387.08	4,387.87	4,384.74	8.57	15.41	-79.50	-57.50	-254.42	68.61	44.73	23.88	2.874		
4,500.00	4,487.08	4,486.44	4,483.15	8.67	15.77	-82.22	-60.12	-259.30	73.08	48.76	24.32	3.005		
4,600.00	4,587.08	4,586.41	4,582.95	8.77	16.14	-83.89	-61.66	-264.94	78.49	53.72	24.78	3.168		
4,700.00	4,687.08	4,687.58	4,684.01	8.86	16.50	-84.42	-61.93	-269.55	83.00	57.77	25.24	3.289		
4,800.00	4,787.08	4,788.99	4,785.38	8.96	16.86	-83.98	-61.01	-272.30	85.79	60.11	25.69	3.340		
4,900.00	4,887.08	4,889.74	4,886.10	9.06	17.21	-82.94	-59.29	-273.54	87.21	61.09	26.13	3.338		
5,000.00	4,987.08	4,989.72	4,986.07	9.15	17.56	-82.02	-57.74	-274.49	88.35	61.78	26.57	3.326		

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 154H
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 154H	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
				(usft)	(usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	5,087.08	5,089.99	5,086.32	9.25	17.90	-81.18	-56.29	-275.29	89.35	62.34	27.00	3.309	
5,200.00	5,187.08	5,188.38	5,184.70	9.34	18.25	-80.63	-55.24	-276.47	90.71	63.26	27.45	3.305	
5,300.00	5,287.08	5,287.07	5,283.32	9.44	18.60	-81.30	-55.75	-280.13	94.29	66.40	27.89	3.381	
5,400.00	5,387.08	5,387.14	5,383.29	9.53	18.96	-82.41	-57.03	-284.39	98.32	69.98	28.34	3.469	
5,500.00	5,487.08	5,486.81	5,482.87	9.63	19.33	-83.59	-58.60	-288.50	102.23	73.44	28.79	3.550	
5,600.00	5,587.08	5,586.43	5,582.37	9.72	19.69	-84.77	-60.30	-292.98	106.53	77.28	29.24	3.643	
5,700.00	5,687.08	5,686.80	5,682.63	9.81	20.05	-85.86	-62.00	-297.42	110.80	81.10	29.70	3.731	
5,800.00	5,787.08	5,786.91	5,782.63	9.91	20.42	-86.85	-63.69	-301.47	114.73	84.58	30.15	3.806	
5,900.00	5,887.08	5,886.63	5,882.26	10.00	20.78	-87.98	-65.82	-305.53	118.70	88.11	30.60	3.880	
6,000.00	5,987.08	5,987.44	5,982.96	10.09	21.15	-89.16	-68.20	-309.34	122.43	91.38	31.05	3.943	
6,100.00	6,087.08	6,087.80	6,083.25	10.19	21.51	-90.22	-70.48	-312.35	125.41	93.91	31.50	3.981	
6,200.00	6,187.08	6,184.46	6,179.77	10.28	21.86	-91.50	-73.40	-316.62	129.87	97.93	31.94	4.067	
6,300.00	6,287.08	6,283.11	6,278.17	10.37	22.22	-93.04	-77.20	-322.55	136.03	103.65	32.38	4.201	
6,400.00	6,387.08	6,382.74	6,377.50	10.47	22.59	-94.63	-81.49	-328.92	142.70	109.88	32.83	4.347	
6,500.00	6,487.08	6,482.72	6,477.18	10.56	22.96	-96.22	-86.15	-335.16	149.37	116.09	33.28	4.488	
6,600.00	6,587.08	6,582.42	6,576.59	10.65	23.33	-97.57	-90.51	-341.29	156.00	122.27	33.73	4.625	
6,700.00	6,687.08	6,681.93	6,675.79	10.74	23.69	-98.96	-95.32	-347.51	162.89	128.71	34.18	4.766	
6,800.00	6,787.08	6,781.70	6,775.24	10.84	24.06	-100.38	-100.52	-353.63	169.81	135.19	34.63	4.904	
6,900.00	6,887.08	6,882.49	6,875.71	10.93	24.43	-101.64	-105.58	-359.71	176.70	141.62	35.08	5.037	
7,000.00	6,987.08	6,983.13	6,976.14	11.02	24.80	-102.32	-108.93	-365.20	182.73	147.19	35.54	5.142	
7,100.00	7,087.08	7,083.71	7,076.54	11.11	25.17	-102.82	-111.79	-370.63	188.62	152.63	35.99	5.241	
7,200.00	7,187.08	7,183.85	7,176.52	11.20	25.54	-103.31	-114.60	-375.56	194.05	157.61	36.44	5.325	
7,300.00	7,287.08	7,284.41	7,276.93	11.29	25.91	-103.73	-117.26	-380.43	199.38	162.48	36.89	5.404	
7,400.00	7,387.08	7,384.06	7,376.43	11.38	26.27	-104.25	-120.27	-384.90	204.47	167.12	37.34	5.475	
7,500.00	7,487.08	7,483.79	7,476.00	11.47	26.64	-104.91	-123.89	-389.38	209.73	171.94	37.79	5.550	
7,600.00	7,587.08	7,584.35	7,576.39	11.57	27.00	-105.57	-127.60	-393.74	214.88	176.63	38.24	5.619	
7,700.00	7,687.08	7,689.83	7,681.78	11.66	27.39	-106.09	-130.56	-396.96	218.59	179.88	38.70	5.648	
7,800.00	7,787.08	7,793.29	7,785.22	11.75	27.75	-106.36	-132.04	-398.29	220.22	181.07	39.15	5.625	
7,900.00	7,887.08	7,896.13	7,888.06	11.84	28.09	-106.45	-132.38	-398.32	220.33	180.76	39.57	5.568	
8,000.00	7,987.08	7,997.30	7,989.22	11.93	28.42	-106.47	-132.25	-397.62	219.64	179.65	39.99	5.493	
8,100.00	8,087.08	8,098.59	8,090.50	12.02	28.75	-106.74	-132.88	-396.09	218.36	177.96	40.40	5.405	
8,200.00	8,187.08	8,199.47	8,191.36	12.11	29.07	-107.07	-133.55	-393.97	216.55	175.74	40.82	5.305	
8,300.00	8,287.08	8,300.76	8,292.61	12.20	29.40	-107.41	-134.11	-391.49	214.38	173.15	41.23	5.199	
8,400.00	8,387.08	8,402.97	8,394.77	12.29	29.73	-107.43	-133.24	-388.44	211.28	169.64	41.64	5.074	
8,500.00	8,487.08	8,501.39	8,493.13	12.38	30.05	-107.45	-132.26	-385.02	207.66	165.60	42.06	4.937	
8,600.00	8,587.08	8,599.60	8,591.31	12.47	30.37	-107.41	-131.42	-382.91	205.35	162.87	42.48	4.834	
8,700.00	8,687.08	8,700.12	8,691.80	12.56	30.69	-107.42	-130.83	-380.88	203.25	160.35	42.90	4.738	
8,800.00	8,787.08	8,799.08	8,790.75	12.65	31.02	-107.50	-130.45	-378.71	201.05	157.74	43.32	4.641	
8,900.00	8,887.08	8,899.93	8,891.57	12.73	31.35	-107.33	-129.32	-377.06	199.15	155.42	43.73	4.554	
9,000.00	8,987.08	9,002.46	8,994.06	12.82	31.68	-107.47	-128.88	-374.12	196.28	152.14	44.15	4.446	
9,100.00	9,087.08	9,100.84	9,092.37	12.91	32.00	-107.97	-129.54	-370.58	193.07	148.50	44.57	4.332	
9,200.00	9,187.08	9,198.00	9,189.49	13.00	32.32	-108.32	-129.83	-367.74	190.40	145.40	45.00	4.231	
9,276.14	9,263.23	9,271.75	9,263.23	13.07	32.57	-108.33	-129.56	-366.80	189.41	144.08	45.33	4.179	
9,300.00	9,287.08	9,293.00	9,284.48	13.09	32.65	-108.29	-129.47	-366.91	189.50	144.07	45.43	4.171	
9,400.00	9,387.08	9,391.27	9,382.74	13.18	33.00	-108.13	-129.43	-368.52	191.05	145.18	45.87	4.165	
9,500.00	9,487.08	9,490.29	9,481.72	13.27	33.35	-108.13	-130.19	-370.85	193.53	147.22	46.31	4.179	
9,600.00	9,587.08	9,587.10	9,578.46	13.36	33.70	-108.55	-132.63	-373.66	197.07	150.32	46.75	4.215	
9,700.00	9,687.08	9,683.61	9,674.79	13.45	34.05	-109.25	-136.66	-377.83	202.51	155.33	47.19	4.292	
9,800.00	9,787.08	9,787.78	9,778.80	13.53	34.43	-110.00	-140.90	-381.84	207.50	159.85	47.65	4.355	
9,900.00	9,887.08	9,890.34	9,881.28	13.62	34.80	-110.59	-144.07	-384.20	210.73	162.63	48.10	4.381	
10,000.00	9,987.08	9,990.68	9,981.56	13.71	35.15	-111.19	-147.10	-385.88	213.37	164.83	48.54	4.396	
10,100.00	10,087.08	10,092.01	10,082.84	13.80	35.52	-111.69	-149.76	-387.51	215.83	166.85	48.99	4.406	

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 154H
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 154H	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		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		
10,200.00	10,187.08	10,194.55	10,185.36	13.89	35.88	-111.96	-151.20	-388.36	217.12	167.69	49.43	4.393			
10,300.00	10,287.08	10,294.04	10,284.85	13.98	36.23	-111.87	-151.11	-389.12	217.80	167.93	49.87	4.367			
10,400.00	10,387.08	10,392.63	10,383.41	14.06	36.58	-111.31	-149.66	-391.22	219.23	168.93	50.31	4.358			
10,500.00	10,487.08	10,493.23	10,483.91	14.15	36.93	-110.25	-146.46	-394.23	220.91	170.17	50.74	4.353			
10,600.00	10,587.08	10,594.20	10,584.80	14.24	37.28	-109.25	-143.21	-396.69	222.11	170.93	51.18	4.340			
10,700.00	10,687.08	10,693.67	10,684.20	14.33	37.62	-108.34	-140.22	-398.85	223.20	171.59	51.61	4.325			
10,800.00	10,787.08	10,795.08	10,785.54	14.41	37.97	-107.42	-137.16	-401.00	224.29	172.25	52.05	4.310			
10,900.00	10,887.08	10,893.20	10,883.59	14.50	38.31	-106.49	-133.95	-403.01	225.30	172.83	52.48	4.293			
11,000.00	10,987.08	10,991.73	10,982.04	14.59	38.66	-105.63	-131.19	-405.76	227.22	174.30	52.91	4.294			
11,100.00	11,087.08	11,096.00	11,086.25	14.68	39.02	-104.82	-128.42	-407.88	228.47	175.12	53.35	4.282			
11,200.00	11,187.07	11,187.00	11,177.10	14.75	39.33	-104.65	-124.14	-410.63	230.50	176.75	53.75	4.288			
11,300.00	11,286.00	11,281.00	11,270.56	14.93	39.66	-104.79	-117.36	-417.90	239.78	185.64	54.14	4.429			
11,400.00	11,381.03	11,371.65	11,360.45	15.11	39.99	-107.37	-110.76	-427.56	257.02	202.50	54.52	4.714			
11,500.00	11,469.29	11,461.19	11,449.39	15.27	40.31	-111.95	-106.18	-436.80	282.86	227.90	54.96	5.147			
11,600.00	11,548.09	11,546.30	11,534.10	15.42	40.61	-116.89	-103.01	-444.46	320.26	264.82	55.45	5.776			
11,700.00	11,615.03	11,619.06	11,606.63	15.54	40.87	-120.07	-100.57	-449.55	371.00	315.04	55.96	6.630			
11,800.00	11,668.09	11,675.54	11,663.01	15.66	41.08	-119.98	-99.04	-452.58	435.63	379.19	56.43	7.719			
11,900.00	11,705.65	11,713.95	11,701.37	15.79	41.21	-115.00	-98.16	-454.47	512.43	455.61	56.82	9.019			
12,000.00	11,726.57	11,735.85	11,723.24	16.00	41.29	-103.17	-97.72	-455.54	598.05	540.97	57.09	10.476			
12,100.00	11,730.73	11,741.47	11,728.85	16.38	41.31	-88.45	-97.61	-455.81	688.71	631.46	57.25	12.031			
12,200.00	11,729.85	11,742.40	11,729.77	16.93	41.31	-88.71	-97.60	-455.85	781.00	723.64	57.36	13.616			
12,300.00	11,728.97	13,072.56	12,507.72	17.60	45.10	-164.70	728.81	-391.04	807.36	753.48	53.89	14.983			
12,400.00	11,728.10	13,192.08	12,506.73	18.36	45.56	-164.85	848.32	-389.94	806.88	752.64	54.24	14.876			
12,500.00	11,727.22	13,294.26	12,504.64	19.19	46.01	-164.95	950.47	-389.20	805.31	750.74	54.57	14.759			
12,600.00	11,726.34	13,399.36	12,502.08	20.09	46.51	-165.02	1,055.54	-388.65	803.42	748.48	54.95	14.622			
12,700.00	11,725.47	13,494.99	12,498.87	21.03	47.00	-165.06	1,151.11	-388.38	800.74	745.43	55.31	14.478			
12,753.46	11,725.00	13,534.05	12,498.17	21.56	47.21	-165.06	1,190.16	-388.70	800.26	744.82	55.43	14.436			
12,800.00	11,724.59	13,558.00	12,498.06	22.02	47.34	-165.05	1,214.11	-389.07	800.71	745.22	55.49	14.430			
12,900.00	11,723.71	13,636.63	12,499.80	23.06	47.80	-165.03	1,292.70	-390.75	804.18	748.38	55.80	14.411			
13,000.00	11,722.84	13,720.38	12,504.47	24.12	48.31	-165.02	1,376.28	-393.11	810.85	754.67	56.18	14.433			
13,100.00	11,721.96	13,823.35	12,510.94	25.22	48.98	-164.99	1,478.99	-396.54	818.39	761.68	56.71	14.432			
13,200.00	11,721.09	13,961.78	12,516.09	26.34	49.92	-164.96	1,617.27	-399.97	823.28	765.74	57.53	14.309			
13,300.00	11,720.21	14,081.63	12,515.41	27.49	50.78	-164.80	1,737.06	-403.71	824.07	765.76	58.31	14.132			
13,400.00	11,719.33	14,182.19	12,512.97	28.65	51.54	-164.44	1,837.41	-409.52	823.85	764.86	59.00	13.964			
13,417.63	11,719.18	14,199.13	12,512.53	28.86	51.67	-164.37	1,854.31	-410.68	823.85	764.73	59.12	13.936			
13,500.00	11,718.46	14,274.88	12,510.71	29.83	52.27	-164.01	1,929.81	-416.48	824.14	764.48	59.67	13.812			
13,600.00	11,717.58	14,376.33	12,508.64	31.03	53.09	-163.47	2,030.86	-425.25	825.19	764.70	60.49	13.641			
13,700.00	11,716.70	14,456.78	12,507.24	32.25	53.77	-163.07	2,111.03	-431.80	826.56	765.45	61.11	13.525			
13,800.00	11,715.83	14,540.53	12,508.83	33.47	54.49	-162.71	2,194.48	-438.65	831.23	769.44	61.79	13.453			
13,900.00	11,714.95	14,674.45	12,510.69	34.71	55.67	-162.39	2,328.18	-445.74	834.84	771.82	63.02	13.247			
14,000.00	11,714.07	14,802.59	12,507.38	35.95	56.84	-162.16	2,456.21	-449.77	833.81	769.60	64.21	12.985			
14,100.00	11,713.20	14,908.09	12,502.89	37.21	57.83	-161.98	2,561.59	-452.41	831.07	765.90	65.17	12.752			
14,200.00	11,712.32	15,008.68	12,498.19	38.47	58.80	-161.82	2,662.04	-454.64	827.85	761.75	66.10	12.524			
14,300.00	11,711.44	15,101.52	12,494.77	39.74	59.71	-161.78	2,754.81	-455.25	825.09	758.18	66.92	12.330			
14,400.00	11,710.57	15,194.29	12,492.58	41.02	60.63	-161.81	2,847.55	-455.26	823.39	755.67	67.72	12.159			
14,500.00	11,709.69	15,294.62	12,490.60	42.30	61.63	-161.84	2,947.86	-455.28	822.05	753.43	68.63	11.979			
14,590.98	11,708.89	15,373.89	12,488.97	43.47	62.44	-161.86	3,027.12	-455.47	820.90	751.58	69.32	11.842			
14,600.00	11,708.81	15,379.45	12,488.94	43.59	62.50	-161.86	3,032.68	-455.49	820.92	751.56	69.36	11.835			
14,700.00	11,707.94	15,447.00	12,490.55	44.88	63.20	-161.93	3,100.20	-455.91	823.72	753.87	69.85	11.793			
14,800.00	11,707.06	15,544.04	12,495.03	46.18	64.22	-162.06	3,197.13	-456.58	828.84	758.13	70.71	11.722			
14,900.00	11,706.19	15,639.68	12,499.44	47.48	65.23	-162.21	3,292.68	-456.92	833.88	762.33	71.55	11.655			
15,000.00	11,705.31	15,784.06	12,503.58	48.79	66.79	-162.43	3,436.97	-456.57	837.36	764.31	73.05	11.462			

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 154H
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 154H	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				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		
15,100.00	11,704.43	15,895.64	12,501.15	50.10	68.01	-162.53	3,548.53	-455.62	835.46	761.30	74.16	11.265		
15,166.82	11,703.85	15,950.23	12,500.26	50.97	68.61	-162.54	3,603.10	-455.89	834.91	760.24	74.67	11.181		
15,200.00	11,703.56	15,975.89	12,500.12	51.41	68.90	-162.54	3,628.76	-456.25	835.06	760.15	74.91	11.148		
15,300.00	11,702.68	16,083.63	12,500.45	52.73	70.10	-162.52	3,736.48	-457.86	836.42	760.35	76.07	10.996		
15,386.67	11,701.92	16,170.12	12,499.83	53.87	71.07	-162.64	3,822.97	-456.95	836.02	759.12	76.90	10.872		
15,400.00	11,701.80	16,181.96	12,499.80	54.04	71.20	-162.65	3,834.80	-456.86	836.03	759.02	77.01	10.856		
15,500.00	11,700.93	16,314.55	12,497.61	55.37	72.71	-162.85	3,967.35	-454.86	834.66	756.25	78.41	10.645		
15,600.00	11,700.05	16,416.81	12,493.61	56.69	73.89	-163.01	4,069.50	-452.41	830.77	751.37	79.40	10.462		
15,700.00	11,699.17	16,518.81	12,489.38	58.01	75.07	-163.15	4,171.39	-450.21	826.74	746.32	80.41	10.281		
15,800.00	11,698.30	16,630.34	12,483.70	59.34	76.38	-163.29	4,282.75	-447.78	821.80	740.23	81.57	10.075		
15,900.00	11,697.42	16,719.76	12,478.71	60.67	77.44	-163.35	4,372.02	-446.51	816.62	734.15	82.47	9.902		
16,000.00	11,696.54	16,799.21	12,475.90	62.00	78.39	-163.40	4,451.41	-445.82	813.55	730.32	83.23	9.775		
16,100.00	11,695.67	16,891.00	12,473.50	63.34	79.48	-163.47	4,543.17	-445.21	811.48	727.32	84.16	9.642		
16,137.59	11,695.34	16,921.66	12,472.90	63.84	79.85	-163.48	4,573.82	-445.34	811.08	726.62	84.47	9.602		
16,200.00	11,694.79	16,959.83	12,472.99	64.67	80.32	-163.45	4,611.98	-446.27	812.02	727.24	84.77	9.579		
16,300.00	11,693.91	17,043.50	12,475.34	66.01	81.34	-163.29	4,695.51	-450.37	816.57	730.84	85.74	9.524		
16,400.00	11,693.04	17,171.91	12,477.79	67.35	82.91	-163.03	4,823.74	-456.43	820.47	732.86	87.61	9.365		
16,500.00	11,692.16	17,262.68	12,478.12	68.69	84.02	-162.88	4,914.45	-459.91	822.50	733.76	88.74	9.268		
16,600.00	11,691.28	17,350.56	12,479.21	70.03	85.11	-162.66	5,002.19	-464.70	825.87	735.97	89.90	9.187		
16,700.00	11,690.41	17,513.77	12,476.16	71.37	87.15	-162.30	5,165.17	-471.11	825.60	733.12	92.47	8.928		
16,800.00	11,689.53	17,600.60	12,472.16	72.71	88.24	-162.23	5,251.90	-472.03	822.18	728.63	93.55	8.789		
16,845.90	11,689.13	17,632.91	12,471.32	73.33	88.64	-162.18	5,284.19	-472.91	821.67	727.74	93.93	8.748		
16,900.00	11,688.66	17,671.12	12,470.87	74.06	89.13	-162.10	5,322.37	-474.48	822.05	727.65	94.40	8.708		
17,000.00	11,687.78	17,742.80	12,471.47	75.40	90.03	-161.84	5,393.86	-479.42	825.49	730.14	95.35	8.658		
17,100.00	11,686.90	17,896.02	12,470.57	76.75	91.98	-161.50	5,546.88	-486.22	826.58	728.68	97.90	8.443		
17,200.00	11,686.03	17,989.28	12,468.22	78.10	93.16	-161.45	5,640.11	-487.30	825.13	726.04	99.09	8.327		
17,300.00	11,685.15	18,114.54	12,465.27	79.45	94.76	-161.34	5,765.29	-489.56	824.23	723.36	100.87	8.171		
17,400.00	11,684.27	18,205.38	12,461.87	80.79	95.92	-161.36	5,856.06	-489.20	821.09	719.12	101.97	8.052		
17,500.00	11,683.40	18,299.30	12,459.06	82.14	97.13	-161.33	5,949.94	-489.91	819.02	715.84	103.18	7.938		
17,574.04	11,682.75	18,359.20	12,457.93	83.14	97.90	-161.32	6,009.83	-490.46	818.33	714.42	103.91	7.876		
17,600.00	11,682.52	18,379.71	12,457.86	83.50	98.16	-161.33	6,030.33	-490.56	818.42	714.28	104.13	7.859		
17,700.00	11,681.64	18,515.38	12,456.45	84.85	99.90	-161.64	6,165.92	-487.13	817.24	711.63	105.62	7.738		
17,800.00	11,680.77	18,591.00	12,455.03	86.20	100.87	-161.96	6,241.40	-482.80	814.41	708.29	106.11	7.675		
17,866.48	11,680.18	18,652.06	12,454.95	87.10	101.65	-162.22	6,302.37	-479.57	813.65	707.12	106.54	7.637		
17,900.00	11,679.89	18,685.00	12,455.43	87.55	102.07	-162.35	6,335.28	-478.19	813.87	707.08	106.79	7.621		
18,000.00	11,679.01	18,768.18	12,457.30	88.90	103.14	-162.64	6,418.39	-475.52	815.49	708.10	107.39	7.594		
18,100.00	11,678.14	18,843.39	12,459.83	90.26	104.12	-162.80	6,493.56	-474.82	819.03	711.09	107.93	7.588		
18,200.00	11,677.26	18,952.33	12,464.87	91.61	105.55	-162.87	6,602.36	-476.71	824.59	715.27	109.32	7.543		
18,300.00	11,676.38	19,119.69	12,462.90	92.97	107.73	-163.20	6,769.59	-473.17	822.61	711.22	111.39	7.385		
18,400.00	11,675.51	19,266.22	12,455.84	94.32	109.63	-163.89	6,915.52	-462.56	816.85	704.49	112.36	7.270		
18,500.00	11,674.63	19,347.00	12,450.89	95.68	110.67	-164.43	6,995.72	-454.25	808.61	695.88	112.73	7.173		
18,600.00	11,673.76	19,402.07	12,449.12	97.03	111.39	-164.75	7,050.56	-449.75	803.97	691.07	112.90	7.121		
18,631.66	11,673.48	19,419.22	12,449.10	97.46	111.61	-164.82	7,067.70	-448.85	803.69	690.76	112.93	7.117		
18,700.00	11,672.88	19,466.30	12,450.09	98.39	112.23	-164.97	7,114.75	-447.56	804.87	691.71	113.15	7.113		
18,800.00	11,672.00	19,562.67	12,452.29	99.75	113.51	-165.02	7,211.07	-448.61	807.95	693.69	114.26	7.071		
18,900.00	11,671.13	19,693.19	12,451.58	101.11	115.26	-164.49	7,341.24	-457.59	810.02	693.19	116.83	6.933		
19,000.00	11,670.25	19,823.46	12,443.75	102.46	117.02	-163.66	7,470.75	-469.22	807.18	687.42	119.76	6.740		
19,100.00	11,669.37	19,946.94	12,433.76	103.82	118.68	-163.32	7,593.75	-472.69	800.62	678.79	121.84	6.571		
19,200.00	11,668.50	20,030.76	12,427.63	105.18	119.81	-163.27	7,677.34	-472.51	794.17	671.18	122.99	6.457		
19,300.00	11,667.62	20,101.00	12,425.02	106.54	120.74	-163.38	7,747.51	-471.06	790.65	666.99	123.66	6.394		
19,352.38	11,667.16	20,141.73	12,424.68	107.25	121.29	-163.48	7,788.22	-470.01	790.17	666.20	123.97	6.374		
19,400.00	11,666.74	20,176.31	12,424.95	107.90	121.75	-163.55	7,822.80	-469.42	790.56	666.35	124.21	6.365		

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 154H
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 154H	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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
19,500.00	11,665.87	20,254.73	12,427.15	109.26	122.80	-163.69	7,901.18	-469.05	793.68	668.87	124.81	6.359
19,600.00	11,664.99	20,352.36	12,431.26	110.62	124.11	-163.76	7,998.71	-470.38	798.66	672.72	125.94	6.341
19,700.00	11,664.11	20,476.64	12,433.61	111.98	125.79	-163.63	8,122.89	-474.57	802.04	674.02	128.03	6.265
19,800.00	11,663.24	20,576.11	12,433.49	113.34	127.14	-163.42	8,222.28	-478.80	803.70	674.04	129.66	6.198
19,900.00	11,662.36	20,687.25	12,432.51	114.70	128.65	-163.17	8,333.31	-483.54	804.64	673.02	131.63	6.113
20,000.00	11,661.48	20,788.09	12,431.47	116.06	130.02	-163.12	8,434.12	-485.13	804.68	671.63	133.05	6.048
20,100.00	11,660.61	20,890.24	12,431.13	117.42	131.41	-163.08	8,536.26	-486.81	805.41	670.93	134.48	5.989
20,200.00	11,659.73	20,998.96	12,427.84	118.78	132.89	-162.89	8,644.87	-489.95	803.84	667.53	136.31	5.897
20,243.67	11,659.35	21,034.89	12,426.88	119.38	133.38	-162.79	8,680.75	-491.57	803.55	666.63	136.93	5.869
20,300.00	11,658.85	21,077.56	12,426.21	120.15	133.97	-162.66	8,723.36	-493.83	803.91	666.27	137.64	5.841
20,400.00	11,657.98	21,161.12	12,426.99	121.51	135.11	-162.42	8,806.78	-498.60	806.97	667.91	139.05	5.803
20,500.00	11,657.10	21,314.03	12,425.69	122.87	137.20	-162.16	8,959.56	-503.90	808.01	666.09	141.92	5.693
20,600.00	11,656.23	21,417.47	12,420.63	124.23	138.62	-162.00	9,062.86	-505.87	804.47	660.83	143.64	5.601
20,700.00	11,655.35	21,506.69	12,416.90	125.60	139.85	-161.86	9,151.98	-507.85	801.72	656.61	145.11	5.525
20,800.00	11,654.47	21,614.28	12,412.33	126.96	141.33	-161.59	9,259.41	-511.61	799.33	652.21	147.12	5.433
20,900.00	11,653.60	21,697.46	12,409.22	128.32	142.47	-161.39	9,342.46	-514.61	797.44	648.81	148.64	5.365
20,914.93	11,653.47	21,705.00	12,409.04	128.53	142.58	-161.38	9,350.00	-514.84	797.35	648.62	148.73	5.361
21,000.00	11,652.72	21,759.06	12,408.91	129.69	143.32	-161.27	9,404.02	-517.05	798.84	649.38	149.45	5.345
21,100.00	11,651.84	21,846.41	12,412.26	131.05	144.53	-161.06	9,491.14	-522.31	804.76	653.81	150.95	5.331
21,200.00	11,650.97	21,978.26	12,414.46	132.41	146.35	-160.91	9,622.87	-526.95	807.91	654.47	153.44	5.265
21,300.00	11,650.09	22,080.50	12,415.28	133.78	147.75	-161.01	9,725.11	-527.05	809.22	654.53	154.68	5.231
21,400.00	11,649.21	22,178.25	12,416.84	135.14	149.08	-161.25	9,822.83	-525.23	810.65	655.12	155.53	5.212
21,500.00	11,648.34	22,303.57	12,416.58	136.51	150.80	-161.59	9,948.08	-521.72	809.94	653.25	156.69	5.169
21,600.00	11,647.46	22,397.60	12,415.83	137.87	152.08	-161.83	10,042.08	-518.98	808.81	651.35	157.45	5.137
21,700.00	11,646.58	22,501.89	12,415.52	139.24	153.50	-162.14	10,146.31	-515.53	808.04	649.80	158.24	5.106
21,800.00	11,645.71	22,618.52	12,413.46	140.60	155.10	-162.53	10,262.82	-510.67	805.63	646.56	159.07	5.065
21,900.00	11,644.83	22,703.00	12,410.88	141.97	156.25	-162.77	10,347.19	-507.28	802.25	642.58	159.67	5.024
21,911.61	11,644.73	22,703.00	12,410.88	142.12	156.25	-162.77	10,347.19	-507.28	802.16	642.55	159.61	5.026
21,946.87	11,644.42	22,703.00	12,410.88	142.61	156.25	-162.77	10,347.19	-507.28	802.94	643.67	159.27	5.041

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 154H
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 154H	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)			
0.00	0.00	0.00	0.00	0.00	0.00	-91.43	-2.00	-80.00	80.03				
100.00	100.00	98.91	98.91	0.50	0.15	-91.49	-2.09	-80.05	80.08	79.42	0.66	122.236	
200.00	200.00	198.85	198.85	1.31	0.35	-91.71	-2.39	-80.21	80.24	78.58	1.66	48.254	
300.00	300.00	299.60	299.59	1.79	0.71	-92.56	-3.59	-80.06	80.15	77.65	2.50	32.060	
400.00	400.00	399.61	399.58	2.17	1.06	-93.69	-5.11	-79.06	79.22	75.99	3.23	24.500	
500.00	500.00	500.06	500.02	2.49	1.42	-94.85	-6.62	-78.02	78.30	74.39	3.92	20.000	
600.00	600.00	600.11	600.05	2.78	1.78	-95.97	-8.00	-76.50	76.92	72.36	4.56	16.866	
700.00	700.00	699.93	699.85	3.04	2.14	-97.30	-9.61	-75.06	75.67	70.49	5.18	14.602	
800.00	800.00	799.32	799.22	3.15	2.49	71.66	-11.19	-74.14	74.88	69.23	5.64	13.270	
900.00	899.96	899.17	899.06	3.43	2.85	72.84	-12.15	-73.98	74.05	67.83	6.21	11.915	
1,000.00	999.82	999.86	999.75	3.69	3.20	76.42	-12.63	-73.06	71.79	65.02	6.77	10.602	
1,100.00	1,099.51	1,099.67	1,099.54	3.94	3.55	83.11	-12.17	-71.53	68.85	61.54	7.31	9.421	
1,200.00	1,199.01	1,199.00	1,198.86	4.03	3.90	85.50	-11.42	-70.16	66.87	59.14	7.73	8.649	
1,300.00	1,298.54	1,298.56	1,298.41	4.23	4.24	79.42	-11.00	-68.57	64.21	55.90	8.32	7.719	
1,400.00	1,398.09	1,397.33	1,397.16	4.45	4.58	73.41	-10.04	-67.09	61.05	52.14	8.91	6.852	
1,500.00	1,497.59	1,496.21	1,496.03	4.66	4.92	69.14	-8.97	-67.03	58.37	48.88	9.49	6.151	
1,600.00	1,596.97	1,595.57	1,595.38	4.87	5.26	69.14	-7.50	-67.05	55.41	45.34	10.06	5.506	
1,700.00	1,696.16	1,695.32	1,695.12	5.06	5.60	74.47	-6.22	-66.45	52.13	41.50	10.63	4.903	
1,800.00	1,795.19	1,794.63	1,794.43	5.18	5.95	88.16	-6.70	-66.65	49.45	38.33	11.12	4.446	
1,825.28	1,820.23	1,819.67	1,819.47	5.23	6.03	92.00	-6.84	-66.82	49.34	38.08	11.26	4.382 CC, ES	
1,900.00	1,894.22	1,893.69	1,893.49	5.36	6.29	103.39	-7.23	-67.15	50.34	38.69	11.64	4.323 SF	
2,000.00	1,993.24	1,992.80	1,992.59	5.54	6.64	117.91	-7.87	-66.95	54.74	42.59	12.15	4.504	
2,100.00	2,092.27	2,091.72	2,091.51	5.72	6.99	130.04	-8.76	-66.41	62.08	49.42	12.66	4.904	
2,200.00	2,191.30	2,189.92	2,189.70	5.91	7.34	139.09	-9.12	-65.69	72.10	58.93	13.16	5.477	
2,300.00	2,290.32	2,288.54	2,288.32	6.09	7.69	145.46	-8.56	-64.78	84.22	70.55	13.67	6.159	
2,400.00	2,389.35	2,386.93	2,386.70	6.28	8.03	150.07	-7.63	-63.71	97.47	83.28	14.19	6.869	
2,500.00	2,488.41	2,485.81	2,485.56	6.40	8.38	153.69	-6.77	-62.31	111.20	96.55	14.65	7.591	
2,600.00	2,587.75	2,582.97	2,582.69	6.58	8.72	156.42	-6.15	-59.91	124.01	108.82	15.19	8.165	
2,700.00	2,687.36	2,678.69	2,678.27	6.75	9.06	159.09	-6.39	-54.76	136.79	121.08	15.71	8.709	
2,800.00	2,787.16	2,776.74	2,776.01	6.91	9.42	161.82	-7.76	-47.17	149.01	132.76	16.24	9.174	
2,900.00	2,887.09	2,876.02	2,874.96	7.08	9.77	163.75	-8.65	-39.23	159.42	142.63	16.79	9.497	
3,000.00	2,987.08	2,976.74	2,975.36	7.18	10.14	69.09	-10.54	-31.34	166.98	149.72	17.25	9.677	
3,100.00	3,087.08	3,076.04	3,074.31	7.28	10.50	70.82	-13.07	-23.37	173.65	155.94	17.71	9.806	
3,200.00	3,187.08	3,176.48	3,174.43	7.39	10.86	72.21	-15.04	-15.69	180.29	162.11	18.17	9.921	
3,300.00	3,287.08	3,277.04	3,274.69	7.49	11.23	73.68	-17.66	-8.30	186.56	167.92	18.64	10.010	
3,400.00	3,387.08	3,377.91	3,375.22	7.59	11.60	75.34	-21.35	-1.07	192.50	173.39	19.10	10.076	
3,500.00	3,487.08	3,478.74	3,475.76	7.69	11.97	76.94	-25.35	5.45	197.83	178.26	19.57	10.109	
3,600.00	3,587.08	3,580.13	3,576.90	7.79	12.34	78.40	-29.25	11.52	202.87	182.83	20.04	10.124	
3,700.00	3,687.08	3,679.67	3,676.27	7.89	12.70	79.47	-32.17	16.47	207.19	186.70	20.49	10.111	
3,800.00	3,787.08	3,774.66	3,771.05	7.99	13.05	80.32	-34.31	22.33	212.88	191.97	20.91	10.181	
3,900.00	3,887.08	3,866.82	3,862.74	8.08	13.39	81.59	-37.76	30.99	221.59	200.30	21.29	10.408	
4,000.00	3,987.08	3,960.56	3,955.59	8.18	13.74	83.15	-42.37	43.00	233.65	211.97	21.68	10.778	
4,100.00	4,087.08	4,060.60	4,054.52	8.28	14.12	84.71	-47.43	56.89	246.95	224.81	22.14	11.152	
4,200.00	4,187.08	4,167.25	4,160.31	8.38	14.52	85.98	-51.95	69.60	258.52	235.84	22.68	11.399	
4,300.00	4,287.08	4,270.21	4,262.71	8.48	14.91	87.13	-56.64	79.29	267.65	244.49	23.17	11.554	
4,400.00	4,387.08	4,374.22	4,366.23	8.57	15.30	88.32	-61.92	87.85	275.68	252.03	23.66	11.654	
4,500.00	4,487.08	4,473.00	4,464.69	8.67	15.67	89.04	-65.26	95.03	282.88	258.78	24.10	11.736	
4,600.00	4,587.08	4,571.34	4,562.73	8.77	16.03	89.41	-67.04	102.58	290.54	265.99	24.55	11.835	
4,700.00	4,687.08	4,668.92	4,659.95	8.86	16.39	89.42	-67.00	110.74	298.90	273.91	24.99	11.962	
4,800.00	4,787.08	4,763.29	4,753.88	8.96	16.74	89.18	-65.60	119.80	308.51	283.12	25.40	12.147	
4,900.00	4,887.08	4,861.41	4,851.40	9.06	17.10	88.82	-63.49	130.39	319.34	293.50	25.84	12.359	
5,000.00	4,987.08	4,971.36	4,960.89	9.15	17.51	88.67	-62.38	140.28	328.34	301.97	26.37	12.451	

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 154H
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 154H	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 (°)	Offset Wellbore Centre	Distance	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,087.08	5,073.98	5,063.25	9.25	17.89	88.72	-62.51	147.71	335.57	308.73	26.84	12.502	
5,200.00	5,187.08	5,174.00	5,163.04	9.34	18.25	88.83	-63.04	154.31	342.16	314.86	27.30	12.535	
5,300.00	5,287.08	5,272.79	5,261.57	9.44	18.62	89.18	-65.04	161.25	349.15	321.40	27.74	12.584	
5,400.00	5,387.08	5,371.90	5,360.40	9.53	18.99	89.59	-67.43	168.25	356.19	327.99	28.19	12.633	
5,500.00	5,487.08	5,470.66	5,458.86	9.63	19.35	89.98	-69.87	175.55	363.57	334.93	28.64	12.693	
5,600.00	5,587.08	5,570.48	5,558.36	9.72	19.72	90.37	-72.40	183.04	371.08	341.99	29.10	12.753	
5,700.00	5,687.08	5,670.91	5,658.50	9.81	20.10	90.70	-74.63	190.44	378.47	348.92	29.55	12.806	
5,800.00	5,787.08	5,771.25	5,758.56	9.91	20.47	91.00	-76.72	197.63	385.68	355.67	30.01	12.851	
5,900.00	5,887.08	5,871.60	5,858.64	10.00	20.84	91.27	-78.72	204.68	392.74	362.27	30.47	12.891	
6,000.00	5,987.08	5,973.27	5,960.07	10.09	21.22	91.49	-80.37	211.53	399.51	368.58	30.93	12.917	
6,100.00	6,087.08	6,077.29	6,063.88	10.19	21.60	91.79	-82.62	217.72	405.52	374.12	31.40	12.914	
6,200.00	6,187.08	6,180.31	6,166.73	10.28	21.98	92.17	-85.51	222.83	410.58	378.72	31.87	12.885	
6,300.00	6,287.08	6,281.21	6,267.49	10.37	22.35	92.51	-88.15	227.40	415.22	382.90	32.32	12.847	
6,400.00	6,387.08	6,383.22	6,369.38	10.47	22.72	92.85	-90.83	231.53	419.38	386.60	32.78	12.794	
6,500.00	6,487.08	6,482.91	6,468.97	10.56	23.08	93.13	-93.13	235.41	423.39	390.16	33.23	12.742	
6,600.00	6,587.08	6,583.07	6,569.02	10.65	23.44	93.43	-95.58	239.35	427.45	393.77	33.68	12.692	
6,700.00	6,687.08	6,687.32	6,673.17	10.74	23.82	93.74	-98.13	243.03	431.15	397.00	34.14	12.628	
6,800.00	6,787.08	6,792.66	6,778.48	10.84	24.20	93.92	-99.65	245.26	433.35	398.74	34.61	12.523	
6,900.00	6,887.08	6,893.04	6,878.84	10.93	24.55	94.06	-100.76	246.81	434.96	399.91	35.05	12.409	
7,000.00	6,987.08	6,993.34	6,979.12	11.02	24.91	94.21	-102.07	248.41	436.64	401.14	35.50	12.300	
7,100.00	7,087.08	7,092.95	7,078.71	11.11	25.26	94.38	-103.45	249.90	438.24	402.29	35.95	12.191	
7,200.00	7,187.08	7,194.58	7,180.32	11.20	25.62	94.58	-105.10	251.36	439.80	403.41	36.40	12.084	
7,300.00	7,287.08	7,294.96	7,280.67	11.29	25.98	94.84	-107.24	252.43	441.03	404.20	36.84	11.972	
7,400.00	7,387.08	7,396.06	7,381.74	11.38	26.33	95.12	-109.45	253.37	442.15	404.87	37.28	11.859	
7,500.00	7,487.08	7,495.00	7,480.65	11.47	26.68	95.39	-111.67	254.27	443.27	405.54	37.72	11.750	
7,600.00	7,587.08	7,595.11	7,580.73	11.57	27.03	95.72	-114.29	255.26	444.50	406.34	38.17	11.646	
7,700.00	7,687.08	7,696.13	7,681.69	11.66	27.38	96.12	-117.52	256.03	445.59	406.98	38.61	11.541	
7,800.00	7,787.08	7,796.11	7,781.59	11.75	27.73	96.61	-121.40	256.58	446.57	407.52	39.05	11.436	
7,900.00	7,887.08	7,896.96	7,882.35	11.84	28.08	97.15	-125.70	257.13	447.62	408.13	39.49	11.335	
8,000.00	7,987.08	7,999.74	7,985.08	11.93	28.44	97.50	-128.49	257.06	447.89	407.96	39.93	11.216	
8,100.00	8,087.08	8,095.65	8,080.98	12.02	28.77	97.74	-130.40	257.47	448.59	408.22	40.36	11.113	
8,200.00	8,187.08	8,192.00	8,177.29	12.11	29.12	98.03	-132.84	258.65	450.14	409.34	40.80	11.033	
8,300.00	8,287.08	8,288.51	8,273.75	12.20	29.46	98.29	-135.24	260.58	452.47	411.24	41.24	10.972	
8,400.00	8,387.08	8,385.81	8,370.98	12.29	29.81	98.55	-137.67	263.26	455.57	413.89	41.68	10.931	
8,500.00	8,487.08	8,485.13	8,470.22	12.38	30.17	98.81	-140.24	266.29	458.98	416.85	42.12	10.896	
8,600.00	8,587.08	8,586.25	8,571.26	12.47	30.54	99.08	-142.97	269.35	462.38	419.81	42.57	10.861	
8,700.00	8,687.08	8,687.85	8,672.81	12.56	30.90	99.15	-144.00	272.25	465.36	422.34	43.02	10.816	
8,800.00	8,787.08	8,787.95	8,772.87	12.65	31.26	99.17	-144.58	275.01	468.17	424.70	43.47	10.770	
8,900.00	8,887.08	8,886.49	8,871.36	12.73	31.62	99.30	-146.10	277.69	471.11	427.20	43.91	10.728	
9,000.00	8,987.08	8,984.43	8,969.24	12.82	31.97	99.42	-147.59	280.75	474.45	430.09	44.36	10.697	
9,100.00	9,087.08	9,084.05	9,068.78	12.91	32.33	99.65	-150.10	284.00	478.08	433.28	44.80	10.671	
9,200.00	9,187.08	9,186.54	9,171.15	13.00	32.70	100.06	-154.04	286.86	481.49	436.23	45.25	10.640	
9,300.00	9,287.08	9,302.37	9,286.91	13.09	33.11	100.45	-157.59	288.12	483.13	437.40	45.72	10.566	
9,400.00	9,387.08	9,403.69	9,388.22	13.18	33.45	100.63	-159.07	287.55	482.84	436.68	46.16	10.461	
9,500.00	9,487.08	9,502.08	9,486.57	13.27	33.79	100.93	-161.52	286.99	482.75	436.16	46.59	10.362	
9,600.00	9,587.08	9,608.71	9,593.18	13.36	34.15	101.15	-163.17	285.71	481.85	434.83	47.02	10.248	
9,700.00	9,687.08	9,708.86	9,693.30	13.45	34.47	101.01	-161.72	284.27	480.17	432.73	47.44	10.122	
9,800.00	9,787.08	9,806.91	9,791.34	13.53	34.79	100.87	-160.36	283.42	479.05	431.20	47.85	10.011	
9,900.00	9,887.08	9,910.91	9,895.33	13.62	35.13	100.85	-159.90	281.99	477.62	429.35	48.27	9.895	
10,000.00	9,987.08	10,010.48	9,994.88	13.71	35.45	100.85	-159.48	279.87	475.45	426.76	48.69	9.765	
10,100.00	10,087.08	10,108.86	10,093.25	13.80	35.77	100.85	-159.24	278.40	473.93	424.83	49.10	9.652	
10,193.94	10,181.03	10,195.65	10,180.03	13.88	36.06	100.83	-158.86	277.48	472.90	423.41	49.49	9.555	

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 154H
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 154H	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		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		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		
10,200.00	10,187.08	10,200.91	10,185.28	13.89	36.08	100.83	-158.83	277.49	472.90	423.39	49.52	9.550			
10,300.00	10,287.08	10,296.23	10,280.60	13.98	36.41	100.77	-158.56	278.61	473.99	424.04	49.95	9.490			
10,400.00	10,387.08	10,398.37	10,382.72	14.06	36.77	100.89	-159.72	279.33	474.89	424.50	50.39	9.424			
10,500.00	10,487.08	10,498.91	10,483.25	14.15	37.12	101.11	-161.66	279.58	475.51	424.68	50.83	9.355			
10,600.00	10,587.08	10,600.86	10,585.18	14.24	37.48	101.35	-163.65	279.65	475.95	424.68	51.27	9.283			
10,700.00	10,687.08	10,706.50	10,690.81	14.33	37.84	101.57	-165.35	278.93	475.61	423.90	51.71	9.198			
10,800.00	10,787.08	10,805.55	10,789.83	14.41	38.17	101.75	-166.63	277.71	474.67	422.53	52.14	9.104			
10,900.00	10,887.08	10,912.39	10,896.66	14.50	38.53	101.78	-166.55	276.11	473.18	420.61	52.57	9.002			
11,000.00	10,987.08	11,017.83	11,002.03	14.59	38.87	101.49	-163.64	273.58	470.27	417.29	52.99	8.875			
11,100.00	11,087.08	11,119.74	11,103.83	14.68	39.20	101.16	-160.26	270.61	466.77	413.36	53.41	8.740			
11,200.00	11,187.07	11,223.55	11,207.52	14.75	39.54	100.07	-157.02	266.68	462.58	408.78	53.80	8.598			
11,295.56	11,281.66	11,316.43	11,300.24	14.92	39.84	101.36	-152.91	263.10	460.49	406.34	54.15	8.504			
11,300.00	11,286.00	11,320.44	11,304.24	14.93	39.86	101.45	-152.77	262.95	460.50	406.33	54.17	8.501			
11,400.00	11,381.03	11,412.19	11,395.93	15.11	40.16	104.43	-151.11	260.03	464.04	409.54	54.50	8.514			
11,500.00	11,469.29	11,502.33	11,486.00	15.27	40.45	108.39	-150.61	256.66	474.87	420.04	54.83	8.661			
11,600.00	11,548.09	11,578.56	11,562.19	15.42	40.70	111.65	-150.11	253.94	496.77	441.60	55.16	9.006			
11,700.00	11,615.03	11,636.21	11,619.82	15.54	40.89	112.81	-150.05	252.58	533.20	477.70	55.50	9.607			
11,800.00	11,668.09	11,684.43	11,668.04	15.66	41.06	111.79	-150.38	252.05	584.77	528.93	55.84	10.471			
11,900.00	11,705.65	11,721.24	11,704.85	15.79	41.18	107.71	-150.67	251.71	649.39	593.24	56.15	11.565			
12,000.00	11,726.57	11,741.38	11,724.98	16.00	41.25	99.10	-150.83	251.52	724.26	667.87	56.38	12.845			
12,100.00	11,730.73	11,744.72	11,728.32	16.38	41.26	89.03	-150.85	251.49	805.90	749.37	56.53	14.255			
12,200.00	11,729.85	13,013.12	12,504.19	16.93	44.86	151.97	629.42	235.68	878.35	822.89	55.47	15.835			
12,300.00	11,728.97	13,106.38	12,507.18	17.60	45.19	152.25	722.55	232.00	880.55	824.78	55.77	15.789			
12,400.00	11,728.10	13,211.45	12,509.15	18.36	45.61	152.46	827.56	228.92	882.03	825.86	56.18	15.701			
12,500.00	11,727.22	13,302.39	12,511.86	19.19	46.01	152.65	918.42	226.43	884.61	828.05	56.56	15.640			
12,600.00	11,726.34	13,422.22	12,513.85	20.09	46.59	152.82	1,038.21	224.06	886.42	829.27	57.15	15.510			
12,700.00	11,725.47	13,562.86	12,510.86	21.03	47.33	152.86	1,178.77	221.12	884.86	826.88	57.98	15.261			
12,800.00	11,724.59	13,675.42	12,503.07	22.02	48.00	152.62	1,291.05	220.55	879.64	820.88	58.75	14.971			
12,900.00	11,723.71	13,745.00	12,497.84	23.06	48.44	152.39	1,360.42	221.59	875.17	815.93	59.24	14.774			
12,974.55	11,723.06	13,801.78	12,494.92	23.85	48.80	152.19	1,417.09	223.22	873.84	814.17	59.67	14.645			
13,000.00	11,722.84	13,817.50	12,494.50	24.12	48.90	152.14	1,432.80	223.79	873.99	814.20	59.78	14.619			
13,100.00	11,721.96	13,918.69	12,492.65	25.22	49.57	151.77	1,533.85	228.63	875.86	815.22	60.64	14.443			
13,200.00	11,721.09	14,004.78	12,490.67	26.34	50.16	151.45	1,619.82	232.74	877.38	815.97	61.40	14.288			
13,300.00	11,720.21	14,090.91	12,492.13	27.49	50.78	151.39	1,705.92	234.18	880.86	818.74	62.12	14.179			
13,400.00	11,719.33	14,202.98	12,495.43	28.65	51.62	151.45	1,817.94	234.43	884.84	821.76	63.08	14.026			
13,500.00	11,718.46	14,304.55	12,496.23	29.83	52.41	151.37	1,919.49	235.76	887.38	823.35	64.03	13.859			
13,600.00	11,717.58	14,386.48	12,497.73	31.03	53.06	151.32	2,001.39	236.99	890.94	826.15	64.79	13.751			
13,700.00	11,716.70	14,530.14	12,497.48	32.25	54.27	151.10	2,144.96	240.20	893.08	826.74	66.33	13.463			
13,800.00	11,715.83	14,631.96	12,494.50	33.47	55.15	150.83	2,246.69	242.89	893.04	825.55	67.49	13.232			
13,900.00	11,714.95	14,752.69	12,488.75	34.71	56.23	150.42	2,367.23	246.28	891.50	822.53	68.97	12.926			
14,000.00	11,714.07	14,847.57	12,482.25	35.95	57.10	149.99	2,461.82	249.83	888.66	818.44	70.22	12.655			
14,100.00	11,713.20	14,928.84	12,478.36	37.21	57.86	149.69	2,542.95	252.62	887.49	816.20	71.29	12.449			
14,100.86	11,713.19	14,929.51	12,478.34	37.22	57.87	149.69	2,543.63	252.64	887.49	816.19	71.30	12.447			
14,200.00	11,712.32	15,002.75	12,477.23	38.47	58.56	149.53	2,616.82	254.54	888.79	816.57	72.22	12.307			
14,300.00	11,711.44	15,072.34	12,479.69	39.74	59.23	149.55	2,686.35	255.23	893.52	820.54	72.98	12.243			
14,400.00	11,710.57	15,212.73	12,485.44	41.02	60.61	149.78	2,826.61	253.92	897.92	823.33	74.59	12.037			
14,500.00	11,709.69	15,335.18	12,484.94	42.30	61.84	149.84	2,949.04	251.99	897.91	821.84	76.07	11.803			
14,600.00	11,708.81	15,464.73	12,480.55	43.59	63.18	149.77	3,078.49	250.13	895.47	817.73	77.74	11.519			
14,700.00	11,707.94	15,569.11	12,475.35	44.88	64.28	149.70	3,182.72	247.97	891.36	812.24	79.12	11.265			
14,800.00	11,707.06	15,672.33	12,468.85	46.18	65.38	149.55	3,285.72	246.34	886.36	805.79	80.57	11.001			
14,900.00	11,706.19	15,762.42	12,464.18	47.48	66.36	149.48	3,375.67	244.51	882.10	800.27	81.82	10.780			
15,000.00	11,705.31	15,849.13	12,460.51	48.79	67.31	149.41	3,462.29	243.10	878.90	795.86	83.04	10.584			

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 154H
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 154H	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				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)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,078.16	11,704.62	15,908.07	12,459.41	49.81	67.95	149.41	3,521.21	242.20	878.00	794.17	83.83	10.473	
15,100.00	11,704.43	15,920.00	12,459.38	50.10	68.08	149.42	3,533.14	242.00	878.07	794.09	83.98	10.456	
15,200.00	11,703.56	16,015.00	12,461.51	51.41	69.14	149.63	3,628.06	239.01	879.64	794.54	85.09	10.337	
15,300.00	11,702.68	16,132.01	12,463.56	52.73	70.45	149.93	3,744.95	234.38	880.41	793.94	86.47	10.182	
15,318.40	11,702.52	16,148.04	12,463.64	52.97	70.63	149.96	3,760.96	233.81	880.38	793.72	86.66	10.159	
15,400.00	11,701.80	16,217.69	12,464.64	54.04	71.42	150.13	3,830.56	231.19	880.89	793.42	87.47	10.071	
15,500.00	11,700.93	16,299.00	12,467.47	55.37	72.35	150.35	3,911.77	228.47	883.45	795.10	88.35	9.999	
15,600.00	11,700.05	16,401.64	12,469.80	56.69	73.53	150.51	4,014.36	226.48	885.67	796.03	89.64	9.880	
15,700.00	11,699.17	16,532.00	12,473.22	58.01	75.05	150.78	4,144.61	222.95	888.08	796.80	91.28	9.730	
15,800.00	11,698.30	16,681.03	12,467.84	59.34	76.82	150.95	4,293.38	216.38	883.47	790.25	93.22	9.478	
15,900.00	11,697.42	16,785.11	12,462.42	60.67	78.06	151.08	4,397.16	210.59	877.45	782.89	94.56	9.279	
16,000.00	11,696.54	16,888.74	12,456.99	62.00	79.31	151.26	4,500.43	203.94	870.99	775.14	95.85	9.087	
16,100.00	11,695.67	16,956.82	12,454.34	63.34	80.14	151.39	4,568.33	199.93	866.02	769.30	96.72	8.954	
16,200.00	11,694.79	17,049.96	12,453.46	64.67	81.27	151.58	4,661.37	195.71	864.20	766.34	97.85	8.832	
16,300.00	11,693.91	17,159.66	12,449.95	66.01	82.61	151.62	4,770.97	192.58	861.23	761.83	99.40	8.664	
16,400.00	11,693.04	17,257.78	12,446.75	67.35	83.82	151.70	4,868.98	189.14	857.92	757.17	100.74	8.516	
16,500.00	11,692.16	17,333.70	12,445.50	68.69	84.75	151.80	4,944.83	186.33	855.99	754.29	101.70	8.417	
16,509.94	11,692.07	17,340.86	12,445.53	68.82	84.84	151.81	4,951.99	186.06	855.98	754.20	101.78	8.410	
16,600.00	11,691.28	17,442.88	12,446.01	70.03	86.11	152.00	5,053.94	182.69	856.14	753.06	103.08	8.306	
16,700.00	11,690.41	17,577.35	12,439.59	71.37	87.79	151.87	5,188.22	180.87	852.44	747.22	105.22	8.101	
16,800.00	11,689.53	17,675.39	12,432.18	72.71	89.02	151.64	5,285.98	180.17	846.67	739.71	106.96	7.916	
16,900.00	11,688.66	17,746.00	12,428.65	74.06	89.91	151.56	5,356.49	179.35	843.02	734.89	108.13	7.797	
17,000.00	11,687.78	17,841.00	12,426.14	75.40	91.10	151.48	5,451.46	178.90	841.69	732.03	109.66	7.676	
17,100.00	11,686.90	17,932.73	12,424.75	76.75	92.26	151.42	5,543.17	178.58	841.38	730.28	111.10	7.573	
17,200.00	11,686.03	18,029.00	12,423.53	78.10	93.48	151.40	5,639.43	177.81	841.12	728.54	112.58	7.471	
17,222.00	11,685.83	18,053.41	12,423.15	78.39	93.79	151.39	5,663.84	177.77	841.07	728.09	112.98	7.444	
17,300.00	11,685.15	18,124.00	12,422.24	79.45	94.69	151.29	5,734.42	178.47	841.51	727.34	114.17	7.371	
17,400.00	11,684.27	18,214.14	12,421.57	80.79	95.83	151.13	5,824.54	180.40	843.09	727.34	115.75	7.284	
17,500.00	11,683.40	18,308.03	12,422.09	82.14	97.03	151.04	5,918.41	181.76	845.51	728.21	117.31	7.208	
17,600.00	11,682.52	18,396.79	12,424.34	83.50	98.17	151.09	6,007.14	181.72	848.93	730.39	118.55	7.161	
17,700.00	11,681.64	18,500.94	12,426.77	84.85	99.51	151.06	6,111.24	183.17	852.89	732.64	120.25	7.093	
17,800.00	11,680.77	18,613.06	12,426.87	86.20	100.95	150.81	6,223.30	186.92	855.83	733.38	122.45	6.989	
17,900.00	11,679.89	18,716.85	12,425.68	87.55	102.29	150.59	6,327.04	189.57	857.29	732.83	124.45	6.889	
18,000.00	11,679.01	18,797.62	12,426.11	88.90	103.33	150.46	6,407.78	191.74	860.27	734.42	125.86	6.835	
18,100.00	11,678.14	18,893.30	12,427.76	90.26	104.57	150.32	6,503.40	194.56	864.46	736.89	127.58	6.776	
18,200.00	11,677.26	18,985.23	12,431.08	91.61	105.77	150.34	6,595.27	195.71	869.45	740.49	128.96	6.742	
18,300.00	11,676.38	19,086.49	12,435.89	92.97	107.10	150.48	6,696.41	195.58	874.75	744.38	130.37	6.710	
18,400.00	11,675.51	19,190.02	12,441.44	94.32	108.46	150.71	6,799.77	194.08	879.95	748.31	131.65	6.684	
18,500.00	11,674.63	19,311.48	12,445.79	95.68	110.06	150.91	6,921.15	192.51	883.70	750.33	133.37	6.626	
18,600.00	11,673.76	19,413.75	12,446.96	97.03	111.41	150.97	7,023.40	191.62	885.50	750.58	134.92	6.563	
18,700.00	11,672.88	19,524.23	12,448.74	98.39	112.87	151.09	7,133.86	190.00	887.47	750.95	136.51	6.501	
18,800.00	11,672.00	19,630.63	12,449.63	99.75	114.29	151.27	7,240.20	186.70	887.93	750.03	137.90	6.439	
18,900.00	11,671.13	19,771.39	12,443.53	101.11	116.17	151.10	7,380.70	185.69	884.65	744.20	140.45	6.299	
19,000.00	11,670.25	19,851.68	12,438.02	102.46	117.24	150.80	7,460.78	187.68	881.14	738.78	142.36	6.189	
19,057.78	11,669.74	19,890.93	12,436.49	103.25	117.76	150.69	7,499.99	188.58	880.53	737.33	143.20	6.149	
19,100.00	11,669.37	19,920.00	12,436.01	103.82	118.14	150.63	7,529.05	189.16	880.86	737.11	143.75	6.128	
19,200.00	11,668.50	20,027.96	12,434.96	105.18	119.58	150.51	7,636.99	190.27	881.73	735.96	145.78	6.049	
19,300.00	11,667.62	20,119.31	12,434.69	106.54	120.80	150.44	7,728.34	190.84	883.00	735.63	147.38	5.991	
19,400.00	11,666.74	20,252.23	12,433.44	107.90	122.59	150.45	7,861.24	189.28	882.88	733.31	149.57	5.903	
19,500.00	11,665.87	20,359.24	12,429.59	109.26	124.03	150.45	7,968.14	186.61	879.71	728.39	151.32	5.814	
19,600.00	11,664.99	20,437.58	12,427.89	110.62	125.09	150.50	8,046.43	184.40	877.74	725.21	152.52	5.755	
19,615.01	11,664.86	20,448.30	12,427.92	110.82	125.24	150.52	8,057.14	184.03	877.70	725.04	152.65	5.750	

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 154H
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 154H	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 (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
19,700.00	11,664.11	20,517.74	12,429.54	111.98	126.18	150.72	8,126.51	181.20	878.71	725.36	153.35	5.730
19,800.00	11,663.24	20,621.79	12,432.85	113.34	127.59	151.07	8,230.39	176.43	880.50	726.17	154.33	5.705
19,900.00	11,662.36	20,791.34	12,429.82	114.70	129.90	151.32	8,399.67	169.48	878.39	721.94	156.45	5.615
20,000.00	11,661.48	20,891.84	12,423.38	116.06	131.27	151.34	8,499.88	165.25	871.98	713.92	158.06	5.517
20,100.00	11,660.61	20,981.87	12,417.15	117.42	132.50	151.34	8,589.61	161.34	865.13	705.54	159.59	5.421
20,200.00	11,659.73	21,051.00	12,415.15	118.78	133.44	151.38	8,658.67	159.34	862.10	701.36	160.74	5.363
20,300.00	11,658.85	21,141.49	12,414.73	120.15	134.68	151.47	8,749.13	157.09	861.64	699.63	162.01	5.318
20,400.00	11,657.98	21,239.00	12,413.84	121.51	136.01	151.56	8,846.60	154.56	860.82	697.42	163.40	5.268
20,441.39	11,657.62	21,275.60	12,413.66	122.07	136.51	151.60	8,883.19	153.66	860.67	696.77	163.90	5.251
20,500.00	11,657.10	21,325.43	12,414.18	122.87	137.19	151.70	8,932.99	151.94	860.97	696.52	164.45	5.235
20,600.00	11,656.23	21,406.35	12,416.92	124.23	138.30	151.97	9,013.78	148.35	863.08	698.06	165.02	5.230
20,700.00	11,655.35	21,537.80	12,419.68	125.60	140.10	152.25	9,145.09	144.51	864.89	698.20	166.69	5.189
20,800.00	11,654.47	21,635.33	12,419.00	126.96	141.43	152.28	9,242.60	143.04	864.78	696.61	168.18	5.142
20,900.00	11,653.60	21,743.56	12,417.66	128.32	142.92	152.32	9,350.81	141.16	864.09	694.22	169.86	5.087
21,000.00	11,652.72	21,852.21	12,415.50	129.69	144.41	152.33	9,459.42	139.33	862.79	691.18	171.61	5.028
21,100.00	11,651.84	21,946.32	12,412.20	131.05	145.70	152.25	9,553.46	138.46	860.50	687.16	173.34	4.964
21,146.38	11,651.44	21,982.37	12,411.88	131.68	146.20	152.29	9,589.50	137.52	860.14	686.32	173.82	4.948
21,200.00	11,650.97	22,028.59	12,412.26	132.41	146.83	152.38	9,635.69	135.93	860.32	686.00	174.32	4.935
21,300.00	11,650.09	22,157.45	12,412.72	133.78	148.61	152.57	9,764.48	132.24	860.88	684.90	175.98	4.892
21,400.00	11,649.21	22,278.98	12,406.71	135.14	150.29	152.54	9,885.82	129.03	856.38	678.42	177.96	4.812
21,500.00	11,648.34	22,363.53	12,402.55	136.51	151.46	152.51	9,970.24	127.06	852.15	672.66	179.50	4.748
21,600.00	11,647.46	22,445.70	12,400.23	137.87	152.60	152.52	10,052.36	125.19	849.81	669.00	180.81	4.700
21,700.00	11,646.58	22,548.68	12,398.92	139.24	154.02	152.62	10,155.30	122.38	848.65	666.41	182.24	4.657
21,800.00	11,645.71	22,645.28	12,397.38	140.60	155.36	152.71	10,251.84	119.63	847.15	663.57	183.58	4.615
21,900.00	11,644.83	22,744.83	12,396.19	141.97	156.74	152.82	10,351.34	116.73	845.97	661.05	184.92	4.575
21,910.10	11,644.74	22,745.00	12,396.19	142.10	156.74	152.82	10,351.51	116.73	845.91	661.02	184.90	4.575
21,946.87	11,644.42	22,745.00	12,396.19	142.61	156.74	152.82	10,351.51	116.73	846.71	662.10	184.61	4.586

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 154H
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 154H	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						Rule Assigned:				Offset Well Error:	0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Minimum Separation (usft)	
0.00	0.00	0.00	0.00	0.00	0.00	-90.64	-2.00	-180.00	180.01					
100.00	100.00	98.75	98.75	0.50	0.23	-90.50	-1.57	-180.59	180.60	179.87	0.73	245.973		
200.00	200.00	198.47	198.45	1.31	0.69	-90.15	-0.49	-181.64	181.65	179.65	2.00	90.763		
300.00	300.00	297.70	297.67	1.79	1.11	-89.80	0.64	-182.90	182.92	180.03	2.89	63.200		
400.00	400.00	396.89	396.84	2.17	1.50	-89.53	1.51	-184.69	184.74	181.07	3.66	50.419		
500.00	500.00	497.75	497.68	2.49	1.89	-89.32	2.21	-186.58	186.62	182.25	4.37	42.722		
600.00	600.00	600.34	600.26	2.78	2.23	-89.20	2.62	-187.48	187.50	182.51	5.00	37.532		
700.00	700.00	701.30	701.22	3.04	2.58	-89.19	2.66	-187.26	187.28	181.67	5.61	33.378		
800.00	800.00	800.55	800.47	3.15	2.91	80.88	2.54	-187.05	187.02	180.96	6.05	30.902		
900.00	899.96	899.82	899.75	3.43	3.26	81.64	2.45	-187.26	186.82	180.22	6.61	28.267		
1,000.00	999.82	999.62	999.55	3.69	3.62	83.24	2.48	-187.66	186.54	179.36	7.17	26.013		
1,100.00	1,099.51	1,099.27	1,099.20	3.94	3.97	85.71	2.76	-188.06	186.21	178.48	7.72	24.116		
1,200.00	1,199.01	1,198.58	1,198.50	4.03	4.33	82.11	3.20	-188.46	185.89	177.73	8.16	22.781		
1,300.00	1,298.54	1,297.51	1,297.42	4.23	4.68	70.00	3.89	-189.06	184.33	175.58	8.75	21.077		
1,400.00	1,398.09	1,397.18	1,397.09	4.45	5.04	57.15	4.76	-189.82	181.04	171.71	9.33	19.409		
1,500.00	1,497.59	1,497.97	1,497.88	4.66	5.39	45.72	5.42	-190.19	175.30	165.41	9.89	17.725		
1,600.00	1,596.97	1,597.58	1,597.48	4.87	6.13	36.55	4.89	-190.26	166.77	155.94	10.83	15.397		
1,700.00	1,696.16	1,695.91	1,695.69	5.06	7.31	28.45	0.56	-192.13	156.30	144.10	12.20	12.810		
1,800.00	1,795.19	1,795.01	1,794.43	5.18	7.92	26.26	-6.98	-195.78	144.72	131.78	12.94	11.184		
1,900.00	1,894.22	1,894.63	1,893.47	5.36	8.25	24.30	-16.77	-200.05	133.01	119.56	13.45	9.890		
2,000.00	1,993.24	1,993.41	1,991.74	5.54	8.58	22.23	-25.99	-204.07	121.42	107.46	13.96	8.698		
2,100.00	2,092.27	2,093.09	2,091.13	5.72	8.91	21.08	-32.74	-207.60	110.12	95.64	14.48	7.607		
2,200.00	2,191.30	2,192.86	2,190.64	5.91	9.24	19.81	-39.34	-210.59	98.38	83.39	14.99	6.563		
2,300.00	2,290.32	2,292.29	2,289.82	6.09	9.57	18.45	-45.65	-213.17	86.35	70.85	15.50	5.570		
2,400.00	2,389.35	2,390.28	2,387.57	6.28	9.90	16.55	-51.92	-216.38	75.05	59.04	16.02	4.686		
2,500.00	2,488.41	2,490.18	2,487.18	6.40	10.24	13.79	-58.28	-220.32	64.79	48.33	16.47	3.935		
2,600.00	2,587.75	2,590.09	2,586.89	6.58	10.58	10.45	-63.89	-223.44	56.15	39.14	17.01	3.302		
2,700.00	2,687.36	2,690.25	2,686.90	6.75	10.92	6.52	-68.72	-225.76	49.55	32.02	17.53	2.826		
2,800.00	2,787.16	2,789.73	2,786.18	6.91	11.26	0.11	-74.52	-227.93	45.83	27.78	18.05	2.540		
2,834.74	2,821.87	2,824.20	2,820.55	6.96	11.39	-3.01	-77.12	-228.83	45.53	27.31	18.22	2.498 CC, ES		
2,900.00	2,887.09	2,888.93	2,884.99	7.08	11.62	-9.67	-82.81	-230.74	46.64	28.09	18.55	2.515		
3,000.00	2,987.08	2,988.55	2,984.13	7.18	11.99	-115.31	-92.13	-233.80	51.89	32.94	18.94	2.739		
3,100.00	3,087.08	3,088.52	3,083.66	7.28	12.37	-122.20	-101.12	-236.41	58.53	39.19	19.33	3.027		
3,200.00	3,187.08	3,188.22	3,182.97	7.39	12.74	-127.40	-109.62	-238.82	65.39	45.67	19.73	3.315		
3,300.00	3,287.08	3,287.55	3,281.92	7.49	13.11	-131.24	-117.79	-241.51	72.72	52.59	20.12	3.614		
3,400.00	3,387.08	3,386.75	3,380.73	7.59	13.50	-133.66	-125.74	-245.41	81.03	60.50	20.53	3.947		
3,500.00	3,487.08	3,488.26	3,481.91	7.69	13.95	-133.27	-130.84	-251.62	88.93	67.94	21.00	4.236		
3,600.00	3,587.08	3,593.22	3,586.75	7.79	14.39	-131.68	-131.74	-256.35	92.85	71.31	21.55	4.310		
3,700.00	3,687.08	3,696.52	3,690.00	7.89	14.86	-129.94	-128.64	-257.03	91.37	69.27	22.10	4.134		
3,800.00	3,787.08	3,798.09	3,791.50	7.99	15.31	-129.52	-125.86	-254.71	87.87	65.31	22.56	3.895		
3,900.00	3,887.08	3,896.49	3,889.75	8.08	15.66	-131.59	-125.62	-249.68	83.83	60.72	23.10	3.628		
3,979.45	3,966.53	3,973.92	3,967.03	8.16	15.91	-134.79	-128.35	-245.78	82.83	59.24	23.59	3.511		
4,000.00	3,987.08	3,993.97	3,987.05	8.18	15.98	-135.67	-129.30	-244.92	82.89	59.18	23.71	3.496		
4,100.00	4,087.08	4,093.50	4,086.43	8.28	16.33	-139.23	-133.77	-241.98	84.21	60.02	24.19	3.481		
4,200.00	4,187.08	4,194.77	4,187.67	8.38	16.75	-139.35	-134.45	-242.34	84.95	60.02	24.93	3.407		
4,260.83	4,247.92	4,255.57	4,248.42	8.44	17.10	-137.59	-132.65	-244.24	84.86	59.43	25.43	3.337		
4,300.00	4,287.08	4,294.57	4,287.37	8.48	17.39	-136.29	-131.38	-245.67	84.91	59.11	25.80	3.291		
4,400.00	4,387.08	4,392.71	4,385.44	8.57	17.75	-134.40	-130.33	-248.60	86.25	59.97	26.28	3.282		
4,500.00	4,487.08	4,491.66	4,484.34	8.67	18.08	-133.90	-131.90	-251.33	89.33	62.62	26.71	3.344		
4,600.00	4,587.08	4,598.63	4,591.23	8.77	18.73	-131.75	-129.21	-253.33	88.99	61.65	27.33	3.256		
4,700.00	4,687.08	4,701.28	4,693.55	8.86	19.47	-128.41	-121.35	-251.75	82.86	54.85	28.01	2.958		
4,800.00	4,787.08	4,799.47	4,791.52	8.96	19.87	-126.84	-115.90	-248.26	76.65	48.08	28.57	2.683		

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 154H
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 154H	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	Reference	Offset	Highside	Offset Wellbore Centre		Distance		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 (usft)	Factor	
4,900.00	4,887.08	4,897.85	4,889.81	9.06	20.22	-127.83	-114.60	-244.44	72.76	43.72	29.03	2.506	
5,000.00	4,987.08	4,996.52	4,988.42	9.15	20.52	-129.65	-114.70	-240.94	70.06	40.63	29.43	2.380	
5,020.64	5,007.72	5,016.33	5,008.22	9.17	20.58	-129.85	-114.82	-240.69	69.94	40.42	29.52	2.369	
5,100.00	5,087.08	5,093.68	5,085.56	9.25	20.83	-129.73	-115.68	-241.97	71.50	41.66	29.84	2.396	
5,200.00	5,187.08	5,193.85	5,185.69	9.34	21.15	-129.10	-116.81	-244.59	74.24	43.98	30.26	2.454	
5,300.00	5,287.08	5,294.08	5,285.89	9.44	21.45	-128.66	-117.82	-246.78	76.57	45.91	30.66	2.497	
5,400.00	5,387.08	5,394.01	5,385.79	9.53	21.76	-128.26	-118.78	-248.84	78.79	47.72	31.07	2.536	
5,500.00	5,487.08	5,493.98	5,485.73	9.63	22.07	-127.91	-119.82	-250.98	81.11	49.64	31.47	2.577	
5,600.00	5,587.08	5,594.05	5,585.78	9.72	22.38	-127.55	-120.77	-253.04	83.32	51.44	31.88	2.613	
5,700.00	5,687.08	5,694.70	5,686.41	9.81	22.70	-127.13	-121.45	-254.95	85.24	52.95	32.29	2.640	
5,800.00	5,787.08	5,795.04	5,786.74	9.91	23.01	-126.64	-121.48	-256.22	86.27	53.57	32.70	2.638	
5,900.00	5,887.08	5,894.90	5,886.59	10.00	23.32	-125.88	-121.17	-257.74	87.31	54.19	33.12	2.636	
6,000.00	5,987.08	5,995.02	5,986.69	10.09	23.63	-125.03	-120.76	-259.40	88.43	54.89	33.53	2.637	
6,100.00	6,087.08	6,096.45	6,088.12	10.19	23.95	-124.48	-120.25	-260.18	88.77	54.83	33.94	2.616	
6,200.00	6,187.08	6,196.47	6,188.13	10.28	24.27	-124.36	-119.68	-259.66	88.02	53.68	34.35	2.563	
6,300.00	6,287.08	6,296.48	6,288.14	10.37	24.59	-124.33	-119.30	-259.18	87.41	52.66	34.75	2.515	
6,400.00	6,387.08	6,396.79	6,388.44	10.47	24.90	-124.30	-118.80	-258.53	86.60	51.44	35.16	2.463	
6,500.00	6,487.08	6,496.74	6,488.39	10.56	25.22	-124.27	-118.21	-257.76	85.63	50.06	35.57	2.407	
6,600.00	6,587.08	6,596.75	6,588.40	10.65	25.54	-124.30	-117.72	-256.95	84.67	48.69	35.98	2.353	
6,700.00	6,687.08	6,696.60	6,688.24	10.74	25.86	-124.40	-117.33	-256.13	83.78	47.39	36.39	2.302	
6,800.00	6,787.08	6,796.21	6,787.86	10.84	26.17	-124.48	-117.12	-255.61	83.23	46.43	36.80	2.262	
6,900.00	6,887.08	6,896.07	6,887.71	10.93	26.49	-124.62	-117.19	-255.35	83.06	45.85	37.21	2.232	
7,000.00	6,987.08	6,996.28	6,987.92	11.02	26.81	-124.84	-117.26	-254.91	82.73	45.11	37.62	2.199	
7,100.00	7,087.08	7,096.27	7,087.91	11.11	27.13	-125.05	-117.30	-254.42	82.36	44.33	38.03	2.165	
7,200.00	7,187.08	7,196.43	7,188.07	11.20	27.46	-125.39	-117.42	-253.74	81.87	43.42	38.45	2.129	
7,300.00	7,287.08	7,296.59	7,288.22	11.29	27.78	-125.95	-117.65	-252.70	81.17	42.31	38.86	2.089	
7,400.00	7,387.08	7,396.61	7,388.24	11.38	28.10	-126.62	-117.92	-251.48	80.34	41.07	39.27	2.046	
7,500.00	7,487.08	7,496.56	7,488.18	11.47	28.42	-127.40	-118.33	-250.20	79.57	39.89	39.68	2.005	
7,600.00	7,587.08	7,596.48	7,588.08	11.57	28.75	-128.50	-119.10	-248.72	78.86	38.77	40.09	1.967 Collision Risk Procedures Req.	
7,700.00	7,687.08	7,696.42	7,688.00	11.66	29.07	-129.86	-120.19	-247.10	78.30	37.80	40.50	1.933 Collision Risk Procedures Req.	
7,800.00	7,787.08	7,796.35	7,787.91	11.75	29.40	-131.31	-121.37	-245.45	77.82	36.90	40.91	1.902 Collision Risk Procedures Req.	
7,860.63	7,847.71	7,856.66	7,848.21	11.80	29.60	-132.14	-122.09	-244.57	77.64	36.48	41.17	1.886 Collision Risk Procedures Req.	
7,900.00	7,887.08	7,895.67	7,887.21	11.84	29.73	-132.71	-122.72	-244.12	77.74	36.41	41.33	1.881 Collision Risk Procedures Req.	
8,000.00	7,987.08	7,995.66	7,987.18	11.93	30.06	-134.33	-124.78	-243.07	78.39	36.65	41.74	1.878 Collision Risk Procedures Req.	
8,100.00	8,087.08	8,096.08	8,087.58	12.02	30.39	-135.86	-126.46	-241.78	78.67	36.52	42.15	1.866 Collision Risk Procedures Req.	
8,200.00	8,187.08	8,196.29	8,187.77	12.11	30.72	-136.92	-127.35	-240.64	78.53	35.96	42.57	1.845 Collision Risk Procedures Req.	
8,300.00	8,287.08	8,296.46	8,287.94	12.20	31.06	-137.18	-127.35	-240.14	78.18	35.18	43.00	1.818 Collision Risk Procedures Req.	
8,400.00	8,387.08	8,396.67	8,388.14	12.29	31.43	-136.26	-126.07	-240.65	77.61	34.14	43.47	1.785 Collision Risk Procedures Req.	
8,500.00	8,487.08	8,496.68	8,488.15	12.38	31.76	-135.81	-125.13	-240.59	76.89	33.00	43.89	1.752 Collision Risk Procedures Req.	
8,600.00	8,587.08	8,596.77	8,588.23	12.47	32.09	-135.62	-124.39	-240.22	76.10	31.79	44.31	1.718 Collision Risk Procedures Req.	
8,700.00	8,687.08	8,696.79	8,688.24	12.56	32.42	-135.58	-123.67	-239.59	75.15	30.42	44.73	1.680 Collision Risk Procedures Req.	
8,764.84	8,751.92	8,760.97	8,752.42	12.61	32.63	-135.47	-123.37	-239.50	74.86	29.86	45.00	1.663 Collision Risk Procedures Req.	
8,800.00	8,787.08	8,796.03	8,787.48	12.65	32.75	-135.36	-123.31	-239.64	74.92	29.77	45.15	1.659 Collision Risk Procedures Req.	
8,900.00	8,887.08	8,896.22	8,887.68	12.73	33.07	-135.41	-123.28	-239.52	74.81	29.24	45.57	1.642 Collision Risk Procedures Req.	
8,916.88	8,903.96	8,913.01	8,904.46	12.75	33.13	-135.41	-123.27	-239.51	74.80	29.16	45.64	1.639 Collision Risk Procedures Req.	
9,000.00	8,987.08	8,995.82	8,987.27	12.82	33.40	-135.16	-123.20	-239.90	75.03	29.04	45.99	1.631 Collision Risk Procedures Req.	
9,100.00	9,087.08	9,095.79	9,087.24	12.91	33.73	-135.41	-123.73	-239.97	75.45	29.04	46.41	1.626 Collision Risk Procedures Req.	
9,200.00	9,187.08	9,195.59	9,187.03	13.00	34.06	-136.33	-124.97	-239.48	76.00	29.17	46.83	1.623 Collision Risk Procedures Req., SF	
9,300.00	9,287.08	9,295.23	9,286.66	13.09	34.40	-137.48	-126.73	-239.02	76.97	29.73	47.25	1.629 Collision Risk Procedures Req.	
9,400.00	9,387.08	9,394.80	9,386.20	13.18	34.73	-138.68	-128.89	-238.77	78.42	30.76	47.66	1.645 Collision Risk Procedures Req.	
9,500.00	9,487.08	9,493.91	9,485.26	13.27	35.07	-139.98	-131.74	-238.85	80.65	32.58	48.08	1.678 Collision Risk Procedures Req.	
9,600.00	9,587.08	9,593.91	9,585.20	13.36	35.40	-140.77	-134.94	-240.03	83.87	35.38	48.49	1.730 Collision Risk Procedures Req.	

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 154H
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 154H	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	
9,700.00	9,687.08	9,695.12	9,686.35	13.45	35.56	-139.00	-134.79	-243.31	85.85	37.12	48.74	1.762	Collision Risk Procedures Req.
9,800.00	9,787.08	9,794.61	9,785.73	13.53	35.56	-136.15	-133.32	-247.82	87.82	38.97	48.85	1.798	Collision Risk Procedures Req.
9,900.00	9,887.08	9,896.14	9,887.16	13.62	35.57	-133.26	-130.98	-251.81	88.99	40.03	48.96	1.818	Collision Risk Procedures Req.
10,000.00	9,987.08	9,996.24	9,987.19	13.71	35.58	-130.78	-128.32	-254.62	89.30	40.23	49.07	1.820	Collision Risk Procedures Req.
10,100.00	10,087.08	10,095.05	10,085.93	13.80	35.60	-128.64	-126.40	-257.55	90.34	41.15	49.18	1.837	Collision Risk Procedures Req.
10,200.00	10,187.08	10,193.47	10,184.27	13.89	35.62	-126.88	-125.85	-261.45	93.13	43.83	49.30	1.889	Collision Risk Procedures Req.
10,300.00	10,287.08	10,293.43	10,284.09	13.98	35.64	-124.90	-125.51	-266.57	97.08	47.66	49.42	1.964	Collision Risk Procedures Req.
10,400.00	10,387.08	10,396.10	10,386.64	14.06	35.66	-122.28	-123.18	-271.18	99.57	50.03	49.54	2.010	
10,500.00	10,487.08	10,497.76	10,488.20	14.15	35.69	-119.80	-119.33	-273.12	99.25	49.58	49.67	1.998	Collision Risk Procedures Req.
10,600.00	10,587.08	10,597.27	10,587.69	14.24	35.73	-118.57	-117.27	-273.79	98.83	49.03	49.79	1.985	Collision Risk Procedures Req.
10,614.28	10,601.37	10,611.45	10,601.87	14.25	35.73	-118.45	-117.08	-273.88	98.82	49.01	49.81	1.984	Collision Risk Procedures Req.
10,700.00	10,687.08	10,697.41	10,687.82	14.33	35.76	-117.90	-116.25	-274.34	98.83	48.91	49.92	1.980	Collision Risk Procedures Req.
10,800.00	10,787.08	10,797.96	10,788.36	14.41	35.80	-117.61	-115.54	-274.09	98.28	48.24	50.04	1.964	Collision Risk Procedures Req.
10,900.00	10,887.08	10,897.85	10,888.25	14.50	35.84	-117.56	-115.10	-273.40	97.47	47.29	50.17	1.943	Collision Risk Procedures Req.
10,956.84	10,943.93	10,954.03	10,944.43	14.55	35.87	-117.49	-114.88	-273.23	97.21	46.96	50.25	1.935	Collision Risk Procedures Req.
11,000.00	10,987.08	10,996.40	10,986.79	14.59	35.89	-117.35	-114.74	-273.50	97.39	47.08	50.31	1.936	Collision Risk Procedures Req.
11,100.00	11,087.08	11,097.93	11,088.31	14.68	35.94	-116.69	-113.92	-274.38	97.80	47.36	50.44	1.939	Collision Risk Procedures Req.
11,131.90	11,118.99	11,129.83	11,120.22	14.70	35.95	-117.51	-113.31	-274.35	97.62	47.14	50.48	1.934	Collision Risk Procedures Req.
11,200.00	11,187.07	11,196.45	11,186.79	14.75	35.99	-116.35	-111.24	-275.37	97.85	47.28	50.56	1.935	Collision Risk Procedures Req.
11,300.00	11,286.00	11,295.40	11,285.58	14.93	36.04	-119.39	-106.77	-278.74	105.31	54.63	50.68	2.078	
11,400.00	11,381.03	11,392.89	11,382.99	15.11	36.10	-128.99	-103.94	-280.21	122.87	72.06	50.81	2.418	
11,500.00	11,469.29	11,478.84	11,468.94	15.27	36.15	-139.43	-104.38	-279.18	157.32	106.32	51.00	3.085	
11,600.00	11,548.09	11,554.61	11,544.70	15.42	36.20	-146.46	-105.88	-278.51	211.34	160.12	51.22	4.126	
11,700.00	11,615.03	11,618.48	11,608.53	15.54	36.24	-149.86	-107.74	-277.82	281.64	230.23	51.41	5.478	
11,800.00	11,668.09	11,668.98	11,659.00	15.66	36.27	-149.57	-109.32	-277.10	364.19	312.62	51.56	7.063	
11,900.00	11,705.65	11,702.99	11,692.98	15.79	36.29	-143.19	-110.42	-276.52	455.48	403.80	51.68	8.814	
12,000.00	11,726.57	11,719.93	11,709.92	16.00	36.31	-119.58	-111.00	-276.22	552.18	500.42	51.76	10.669	
12,100.00	11,730.73	11,720.60	11,710.58	16.38	36.31	-74.35	-111.02	-276.21	650.97	599.16	51.80	12.566	
12,200.00	11,729.85	11,716.48	11,706.46	16.93	36.30	-74.05	-110.88	-276.29	749.80	697.96	51.84	14.463	
12,300.00	11,728.97	11,712.41	11,702.40	17.60	36.30	-72.06	-110.74	-276.36	848.82	796.94	51.88	16.360	
12,400.00	11,728.10	11,708.41	11,698.40	18.36	36.30	-70.14	-110.60	-276.43	948.03	896.11	51.92	18.258	
12,500.00	11,727.22	11,704.47	11,694.47	19.19	36.30	-68.30	-110.47	-276.50	1,047.38	995.41	51.97	20.155	
12,600.00	11,726.34	11,677.64	12,800.59	20.09	40.70	175.39	1,004.15	-94.06	1,077.61	1,022.41	55.20	19.521	
12,700.00	11,725.47	13,816.01	12,801.64	21.03	41.51	175.63	1,142.38	-99.63	1,078.85	1,023.09	55.77	19.345	
12,700.66	11,725.46	13,816.40	12,801.63	21.04	41.51	175.63	1,142.77	-99.65	1,078.85	1,023.08	55.77	19.345	
12,800.00	11,724.59	13,888.00	12,802.87	22.02	41.96	175.81	1,214.24	-103.72	1,080.82	1,024.89	55.93	19.324	
12,900.00	11,723.71	14,013.62	12,804.38	23.06	42.81	176.04	1,339.71	-108.96	1,082.77	1,026.28	56.49	19.166	
13,000.00	11,722.84	14,125.05	12,803.31	24.12	43.61	176.00	1,451.13	-109.31	1,082.77	1,025.77	57.00	18.996	
13,100.00	11,721.96	14,226.69	12,800.68	25.22	44.38	175.72	1,552.64	-105.05	1,081.43	1,023.96	57.47	18.818	
13,200.00	11,721.09	14,329.92	12,798.44	26.34	45.20	175.36	1,655.69	-99.44	1,080.64	1,022.66	57.98	18.637	
13,277.00	11,720.41	14,393.72	12,796.80	27.22	45.72	175.12	1,719.35	-95.55	1,079.84	1,021.58	58.26	18.535	
13,300.00	11,720.21	14,408.94	12,796.63	27.49	45.85	175.07	1,734.54	-94.68	1,079.92	1,021.62	58.31	18.521	
13,400.00	11,719.33	14,480.93	12,797.25	28.65	46.46	174.84	1,806.43	-91.04	1,082.12	1,023.55	58.57	18.476	
13,500.00	11,718.46	14,577.41	12,799.79	29.83	47.29	174.64	1,902.82	-87.72	1,086.00	1,026.92	59.08	18.380	
13,600.00	11,717.58	14,684.83	12,801.27	31.03	48.25	174.45	2,010.20	-84.98	1,088.52	1,028.79	59.73	18.223	
13,700.00	11,716.70	14,798.98	12,803.83	32.25	49.30	174.31	2,124.30	-82.96	1,092.05	1,031.57	60.48	18.057	
13,800.00	11,715.83	14,911.94	12,803.27	33.47	50.37	174.27	2,237.25	-83.36	1,092.40	1,031.17	61.23	17.842	
13,900.00	11,714.95	15,023.63	12,802.57	34.71	51.46	174.39	2,348.89	-86.56	1,092.48	1,030.51	61.97	17.630	
14,000.00	11,714.07	15,135.75	12,800.09	35.95	52.58	174.46	2,460.95	-89.09	1,090.98	1,028.24	62.74	17.388	
14,081.97	11,713.35	15,199.09	12,798.93	36.98	53.22	174.42	2,524.27	-89.07	1,090.28	1,027.21	63.08	17.285	
14,100.00	11,713.20	15,215.00	12,798.79	37.21	53.38	174.40	2,540.18	-88.93	1,090.32	1,027.14	63.17	17.260	
14,200.00	11,712.32	15,280.57	12,799.34	38.47	54.06	174.34	2,605.74	-88.31	1,092.17	1,028.73	63.44	17.216	

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 154H
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 154H	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						Rule Assigned:				Offset Well Error:	0.00 usft	
Reference	Offset	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)				
14,300.00	11,711.44	15,373.54	12,802.34	39.74	55.03	174.29	2,698.66	-87.85	1,096.35	1,032.30	64.05	17.116		
14,400.00	11,710.57	15,463.73	12,805.21	41.02	55.99	174.28	2,788.81	-87.98	1,100.50	1,035.86	64.64	17.025		
14,500.00	11,709.69	15,566.38	12,809.55	42.30	57.09	174.28	2,891.37	-88.57	1,105.63	1,040.23	65.40	16.905		
14,600.00	11,708.81	15,663.20	12,813.16	43.59	58.15	174.33	2,988.10	-89.91	1,110.18	1,044.08	66.09	16.797		
14,700.00	11,707.94	15,752.47	12,817.34	44.88	59.14	174.43	3,077.25	-92.37	1,115.53	1,048.85	66.68	16.729		
14,800.00	11,707.06	15,871.62	12,823.08	46.18	60.47	174.65	3,196.16	-97.07	1,120.99	1,053.30	67.69	16.562		
14,900.00	11,706.19	16,052.15	12,821.60	47.48	62.53	174.94	3,376.46	-104.48	1,120.14	1,050.62	69.52	16.112		
15,000.00	11,705.31	16,141.10	12,817.74	48.79	63.56	175.05	3,465.26	-107.82	1,116.57	1,046.42	70.16	15.916		
15,100.00	11,704.43	16,254.51	12,814.81	50.10	64.89	175.22	3,578.53	-112.28	1,114.71	1,043.59	71.12	15.674		
15,200.00	11,703.56	16,355.00	12,810.77	51.41	66.08	175.45	3,678.78	-117.97	1,111.18	1,039.27	71.91	15.452		
15,300.00	11,702.68	16,420.88	12,809.09	52.73	66.86	175.56	3,744.57	-120.93	1,109.30	1,037.06	72.24	15.355		
15,306.42	11,702.62	16,424.93	12,809.06	52.81	66.91	175.57	3,748.62	-121.09	1,109.29	1,037.03	72.26	15.351		
15,400.00	11,701.80	16,506.78	12,809.35	54.04	67.89	175.68	3,830.41	-123.99	1,110.20	1,037.34	72.86	15.238		
15,500.00	11,700.93	16,607.87	12,809.56	55.37	69.11	175.79	3,931.46	-126.97	1,111.13	1,037.43	73.71	15.075		
15,600.00	11,700.05	16,721.91	12,809.13	56.69	70.50	175.78	4,045.49	-127.84	1,111.67	1,036.87	74.79	14.863		
15,654.78	11,699.57	16,773.36	12,808.53	57.42	71.12	175.75	4,096.94	-127.67	1,111.57	1,036.33	75.23	14.775		
15,700.00	11,699.17	16,816.00	12,808.14	58.01	71.65	175.69	4,139.57	-126.99	1,111.63	1,036.03	75.60	14.704		
15,800.00	11,698.30	16,905.00	12,807.56	59.34	72.74	175.56	4,228.55	-125.19	1,112.11	1,035.77	76.35	14.567		
15,900.00	11,697.42	16,982.47	12,808.19	60.67	73.69	175.44	4,305.99	-123.63	1,114.11	1,037.20	76.90	14.487		
16,000.00	11,696.54	17,073.82	12,810.64	62.00	74.83	175.31	4,397.29	-121.64	1,117.89	1,040.19	77.70	14.387		
16,100.00	11,695.67	17,177.28	12,813.55	63.34	76.11	175.17	4,500.69	-119.54	1,121.82	1,043.10	78.72	14.251		
16,200.00	11,694.79	17,296.50	12,815.47	64.67	77.61	175.08	4,619.89	-118.59	1,124.40	1,044.40	80.00	14.054		
16,300.00	11,693.91	17,386.48	12,816.55	66.01	78.75	175.04	4,709.86	-118.50	1,126.59	1,045.80	80.79	13.945		
16,400.00	11,693.04	17,470.57	12,819.10	67.35	79.81	175.05	4,793.91	-119.31	1,130.44	1,048.98	81.45	13.879		
16,500.00	11,692.16	17,591.27	12,822.57	68.69	81.35	175.16	4,914.52	-122.21	1,134.10	1,051.36	82.74	13.707		
16,600.00	11,691.28	17,697.04	12,823.77	70.03	82.71	175.24	5,020.26	-124.58	1,135.98	1,052.20	83.78	13.559		
16,700.00	11,690.41	17,793.29	12,825.15	71.37	83.95	175.35	5,116.45	-127.62	1,138.09	1,053.44	84.65	13.445		
16,800.00	11,689.53	17,894.76	12,826.77	72.71	85.26	175.49	5,217.84	-131.19	1,140.35	1,054.75	85.61	13.321		
16,900.00	11,688.66	17,993.84	12,828.22	74.06	86.54	175.61	5,316.86	-134.21	1,142.53	1,055.99	86.54	13.203		
17,000.00	11,687.78	18,062.84	12,830.06	75.40	87.44	175.65	5,385.82	-135.57	1,146.02	1,059.07	86.95	13.181		
17,100.00	11,686.90	18,162.74	12,834.97	76.75	88.74	175.77	5,485.56	-138.40	1,151.65	1,063.75	87.90	13.102		
17,200.00	11,686.03	18,336.74	12,834.57	78.10	91.01	175.64	5,659.46	-137.46	1,151.69	1,061.44	90.25	12.761		
17,300.00	11,685.15	18,475.65	12,829.60	79.45	92.83	175.33	5,798.19	-132.77	1,149.65	1,057.68	91.97	12.501		
17,400.00	11,684.27	18,556.48	12,825.39	80.79	93.90	175.15	5,878.86	-130.32	1,145.65	1,052.90	92.76	12.351		
17,500.00	11,683.40	18,659.16	12,820.99	82.14	95.25	175.00	5,981.44	-128.62	1,142.49	1,048.61	93.88	12.170		
17,600.00	11,682.52	18,756.00	12,816.91	83.50	96.53	174.91	6,078.19	-128.06	1,139.29	1,044.39	94.90	12.005		
17,700.00	11,681.64	18,867.32	12,811.61	84.85	98.01	174.85	6,189.38	-128.30	1,135.46	1,039.33	96.14	11.811		
17,800.00	11,680.77	18,949.19	12,808.06	86.20	99.10	174.78	6,271.17	-127.78	1,132.16	1,035.24	96.93	11.681		
17,900.00	11,679.89	19,048.73	12,804.40	87.55	100.43	174.63	6,370.63	-126.11	1,129.61	1,031.57	98.03	11.523		
18,000.00	11,679.01	19,143.39	12,801.24	88.90	101.69	174.51	6,465.22	-124.90	1,127.36	1,028.31	99.05	11.381		
18,100.00	11,678.14	19,247.44	12,798.06	90.26	103.09	174.44	6,569.23	-124.63	1,125.33	1,025.11	100.22	11.229		
18,200.00	11,677.26	19,350.66	12,793.80	91.61	104.47	174.36	6,672.36	-124.45	1,122.18	1,020.80	101.38	11.069		
18,300.00	11,676.38	19,425.78	12,792.05	92.97	105.48	174.33	6,747.45	-124.62	1,120.75	1,018.72	102.03	10.984		
18,400.00	11,675.51	19,526.71	12,790.48	94.32	106.84	174.30	6,848.37	-125.18	1,120.11	1,016.97	103.14	10.860		
18,442.77	11,675.13	19,563.36	12,790.06	94.90	107.34	174.31	6,885.02	-125.62	1,119.99	1,016.50	103.49	10.822		
18,500.00	11,674.63	19,616.83	12,789.83	95.68	108.06	174.34	6,938.48	-126.67	1,120.19	1,016.16	104.02	10.769		
18,600.00	11,673.76	19,747.78	12,787.16	97.03	109.83	174.34	7,069.38	-128.05	1,118.98	1,013.32	105.66	10.591		
18,700.00	11,672.88	19,845.37	12,783.60	98.39	111.15	174.32	7,166.90	-128.85	1,116.24	1,009.52	106.71	10.460		
18,800.00	11,672.00	19,982.10	12,778.43	99.75	113.01	174.30	7,303.52	-130.20	1,113.70	1,005.29	108.41	10.273		
18,900.00	11,671.13	20,064.70	12,773.65	101.11	114.13	174.25	7,385.98	-130.51	1,108.89	999.63	109.26	10.149		
19,000.00	11,670.25	20,170.73	12,768.41	102.46	115.58	174.23	7,491.87	-131.55	1,104.85	994.39	110.46	10.002		
19,100.00	11,669.37	20,297.26	12,759.78	103.82	117.30	174.23	7,618.09	-133.43	1,098.82	986.85	111.96	9.814		

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 154H
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 154H	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	
19,200.00	11,668.50	20,364.00	12,754.56	105.18	118.21	174.20	7,684.62	-134.00	1,092.40	979.82	112.58	9.703	
19,300.00	11,667.62	20,433.50	12,751.10	106.54	119.16	174.16	7,754.03	-134.19	1,088.84	975.66	113.18	9.620	
19,338.19	11,667.29	20,460.00	12,750.84	107.06	119.52	174.15	7,780.52	-134.20	1,088.77	975.38	113.39	9.602	
19,400.00	11,666.74	20,503.20	12,751.01	107.90	120.11	174.13	7,823.73	-134.14	1,089.52	975.80	113.72	9.580	
19,500.00	11,665.87	20,625.79	12,751.53	109.26	121.79	174.06	7,946.31	-133.88	1,091.11	975.78	115.34	9.460	
19,600.00	11,664.99	20,739.23	12,748.95	110.62	123.35	174.03	8,059.72	-134.57	1,089.71	972.98	116.73	9.335	
19,700.00	11,664.11	20,837.27	12,746.53	111.98	124.69	174.01	8,157.72	-135.35	1,088.15	970.32	117.83	9.235	
19,800.00	11,663.24	20,941.23	12,743.82	113.34	126.12	173.97	8,261.65	-135.64	1,086.49	967.43	119.06	9.126	
19,900.00	11,662.36	21,033.05	12,741.59	114.70	127.38	173.90	8,353.44	-135.48	1,085.07	964.98	120.09	9.036	
20,000.00	11,661.48	21,168.77	12,736.42	116.06	129.25	173.92	8,489.04	-137.47	1,082.00	960.17	121.83	8.881	
20,100.00	11,660.61	21,276.49	12,730.47	117.42	130.74	174.02	8,596.53	-141.02	1,077.12	954.11	123.01	8.756	
20,200.00	11,659.73	21,373.62	12,724.95	118.78	132.09	174.13	8,693.44	-144.43	1,072.08	948.05	124.03	8.644	
20,300.00	11,658.85	21,448.07	12,721.43	120.15	133.12	174.23	8,767.75	-147.24	1,068.08	943.42	124.66	8.568	
20,362.24	11,658.31	21,486.68	12,720.71	120.99	133.65	174.30	8,806.32	-148.97	1,067.25	942.38	124.87	8.547	
20,400.00	11,657.98	21,513.09	12,720.70	121.51	134.02	174.36	8,832.70	-150.27	1,067.40	942.38	125.02	8.538	
20,500.00	11,657.10	21,612.15	12,721.14	122.87	135.40	174.58	8,931.63	-155.32	1,068.31	942.33	125.98	8.480	
20,600.00	11,656.23	21,752.80	12,720.14	124.23	137.35	174.74	9,072.20	-159.56	1,068.67	940.87	127.80	8.362	
20,700.00	11,655.35	21,875.24	12,713.46	125.60	139.05	174.78	9,194.42	-162.12	1,063.84	934.55	129.29	8.229	
20,800.00	11,654.47	21,982.43	12,706.96	126.96	140.54	174.83	9,301.39	-164.58	1,058.55	928.04	130.51	8.111	
20,900.00	11,653.60	22,088.64	12,699.58	128.32	142.02	174.89	9,407.30	-167.19	1,052.35	920.64	131.70	7.990	
21,000.00	11,652.72	22,168.00	12,694.69	129.69	143.12	174.95	9,486.48	-169.39	1,046.95	914.47	132.48	7.903	
21,100.00	11,651.84	22,249.55	12,691.21	131.05	144.26	175.03	9,567.91	-171.98	1,043.40	910.16	133.24	7.831	
21,198.64	11,650.98	22,321.52	12,689.89	132.40	145.26	175.21	9,639.76	-175.95	1,042.09	908.36	133.72	7.793	
21,200.00	11,650.97	22,322.50	12,689.88	132.41	145.28	175.21	9,640.73	-176.02	1,042.09	908.36	133.73	7.793	
21,300.00	11,650.09	22,410.70	12,690.66	133.78	146.51	175.63	9,728.54	-184.32	1,043.10	908.77	134.34	7.765	
21,400.00	11,649.21	22,517.85	12,691.12	135.14	148.01	175.95	9,835.42	-191.02	1,044.02	908.58	135.44	7.708	
21,500.00	11,648.34	22,596.68	12,691.06	136.51	149.10	175.78	9,914.22	-188.75	1,045.20	908.99	136.21	7.673	
21,600.00	11,647.46	22,668.42	12,693.14	137.87	150.09	175.65	9,985.90	-186.70	1,049.22	912.47	136.75	7.673	
21,700.00	11,646.58	22,763.91	12,698.05	139.24	151.42	175.51	10,081.24	-184.74	1,055.41	917.54	137.88	7.655	
21,800.00	11,645.71	22,923.11	12,700.04	140.60	153.63	175.19	10,240.33	-180.06	1,057.58	916.90	140.69	7.517	
21,900.00	11,644.83	23,022.79	12,698.98	141.97	155.01	175.02	10,339.98	-177.83	1,057.67	915.70	141.97	7.450	
21,946.87	11,644.42	23,050.00	12,698.70	142.61	155.39	174.97	10,367.19	-177.24	1,057.91	915.79	142.12	7.444	

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 154H
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 154H	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 124H - 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		Rule Assigned:		Distance		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	799.74	799.74	3.15	3.15	-100.26	-0.20	25.25	25.31	19.01	6.30	4.018	
900.00	899.96	899.18	899.14	3.43	3.43	-102.13	-1.83	27.27	27.81	21.05	6.76	4.113	
1,000.00	999.82	998.46	998.29	3.69	3.69	-105.00	-5.08	31.28	32.87	25.68	7.20	4.568	
1,100.00	1,099.51	1,097.48	1,097.00	3.94	3.94	-107.93	-9.93	37.29	40.57	32.96	7.61	5.329	
1,200.00	1,199.01	1,196.13	1,195.12	4.03	4.19	-116.72	-16.35	45.24	51.04	43.13	7.91	6.453	
1,300.00	1,298.54	1,294.28	1,292.44	4.23	4.36	-130.40	-24.32	55.10	64.92	56.63	8.28	7.839	
1,400.00	1,398.09	1,392.84	1,390.04	4.45	4.54	-143.41	-32.94	65.78	81.45	72.76	8.68	9.378	
1,500.00	1,497.59	1,490.98	1,487.23	4.66	4.73	-154.83	-41.53	76.41	100.10	91.02	9.09	11.016	
1,600.00	1,596.97	1,588.64	1,583.93	4.87	4.92	-163.71	-50.08	86.98	120.98	111.50	9.48	12.762	
1,700.00	1,696.16	1,685.75	1,680.10	5.06	5.11	-170.14	-58.58	97.50	144.16	134.30	9.87	14.610	
1,800.00	1,795.19	1,782.46	1,775.87	5.18	5.30	-169.40	-67.04	107.98	168.97	158.77	10.20	16.566	
1,900.00	1,894.22	1,879.16	1,871.62	5.36	5.48	-167.80	-75.50	118.45	193.97	183.39	10.58	18.338	
2,000.00	1,993.24	1,975.86	1,967.38	5.54	5.67	-166.57	-83.97	128.93	219.09	208.13	10.95	19.999	
2,100.00	2,092.27	2,072.56	2,063.14	5.72	5.86	-165.58	-92.43	139.40	244.28	232.95	11.33	21.557	
2,200.00	2,191.30	2,170.94	2,160.58	5.91	6.00	-164.79	-100.98	149.98	269.44	257.78	11.67	23.095	
2,300.00	2,290.32	2,274.73	2,263.62	6.09	6.21	-164.30	-108.71	159.55	292.98	280.91	12.07	24.269	
2,400.00	2,389.35	2,379.69	2,368.14	6.28	6.44	-164.14	-114.74	167.01	314.21	301.72	12.49	25.151	
2,500.00	2,488.41	2,485.73	2,473.97	6.40	6.66	-164.28	-119.00	172.28	332.84	320.00	12.84	25.932	
2,600.00	2,587.75	2,592.99	2,581.16	6.58	6.87	-164.57	-121.42	175.28	346.96	333.71	13.25	26.181	
2,700.00	2,687.36	2,699.20	2,687.36	6.75	6.97	-164.94	-122.00	176.00	356.22	342.67	13.55	26.293	
2,800.00	2,787.16	2,799.00	2,787.16	6.91	7.07	-165.22	-122.00	176.00	362.23	348.39	13.85	26.160	
2,900.00	2,887.09	2,898.94	2,887.09	7.08	7.17	-165.37	-122.00	176.00	365.73	351.59	14.14	25.870	
3,000.00	2,987.08	2,998.93	2,987.08	7.18	7.27	98.15	-122.00	176.00	366.71	352.37	14.34	25.579	
3,100.00	3,087.08	3,098.93	3,087.08	7.28	7.37	98.15	-122.00	176.00	366.71	352.17	14.54	25.228	
3,200.00	3,187.08	3,198.93	3,187.08	7.39	7.47	98.15	-122.00	176.00	366.71	351.97	14.73	24.888	
3,300.00	3,287.08	3,298.93	3,287.08	7.49	7.57	98.15	-122.00	176.00	366.71	351.77	14.93	24.558	
3,400.00	3,387.08	3,398.93	3,387.08	7.59	7.66	98.15	-122.00	176.00	366.71	351.58	15.13	24.238	
3,500.00	3,487.08	3,498.93	3,487.08	7.69	7.76	98.15	-122.00	176.00	366.71	351.38	15.33	23.928	
3,600.00	3,587.08	3,598.93	3,587.08	7.79	7.86	98.15	-122.00	176.00	366.71	351.18	15.52	23.626	
3,700.00	3,687.08	3,698.93	3,687.08	7.89	7.96	98.15	-122.00	176.00	366.71	350.99	15.72	23.333	
3,800.00	3,787.08	3,798.93	3,787.08	7.99	8.05	98.15	-122.00	176.00	366.71	350.80	15.91	23.049	
3,900.00	3,887.08	3,898.93	3,887.08	8.08	8.15	98.15	-122.00	176.00	366.71	350.60	16.10	22.772	
4,000.00	3,987.08	3,998.93	3,987.08	8.18	8.24	98.15	-122.00	176.00	366.71	350.41	16.30	22.503	
4,100.00	4,087.08	4,098.93	4,087.08	8.28	8.34	98.15	-122.00	176.00	366.71	350.22	16.49	22.241	
4,200.00	4,187.08	4,198.93	4,187.08	8.38	8.44	98.15	-122.00	176.00	366.71	350.03	16.68	21.985	
4,300.00	4,287.08	4,298.93	4,287.08	8.48	8.53	98.15	-122.00	176.00	366.71	349.84	16.87	21.737	
4,400.00	4,387.08	4,398.93	4,387.08	8.57	8.63	98.15	-122.00	176.00	366.71	349.64	17.06	21.494	
4,500.00	4,487.08	4,498.93	4,487.08	8.67	8.72	98.15	-122.00	176.00	366.71	349.46	17.25	21.258	
4,600.00	4,587.08	4,598.93	4,587.08	8.77	8.82	98.15	-122.00	176.00	366.71	349.27	17.44	21.027	
4,700.00	4,687.08	4,698.93	4,687.08	8.86	8.91	98.15	-122.00	176.00	366.71	349.08	17.63	20.802	
4,800.00	4,787.08	4,798.93	4,787.08	8.96	9.00	98.15	-122.00	176.00	366.71	348.89	17.82	20.582	
4,900.00	4,887.08	4,898.93	4,887.08	9.06	9.10	98.15	-122.00	176.00	366.71	348.70	18.00	20.368	
5,000.00	4,987.08	4,998.93	4,987.08	9.15	9.19	98.15	-122.00	176.00	366.71	348.51	18.19	20.158	

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 154H
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 154H	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 124H - 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		Rule Assigned:		Distance		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	5,087.08	5,098.93	5,087.08	9.25	9.28	98.15	-122.00	176.00	366.71	348.33	18.38	19.954	
5,200.00	5,187.08	5,198.93	5,187.08	9.34	9.38	98.15	-122.00	176.00	366.71	348.14	18.56	19.753	
5,300.00	5,287.08	5,298.93	5,287.08	9.44	9.47	98.15	-122.00	176.00	366.71	347.96	18.75	19.557	
5,400.00	5,387.08	5,398.93	5,387.08	9.53	9.56	98.15	-122.00	176.00	366.71	347.77	18.94	19.366	
5,500.00	5,487.08	5,498.93	5,487.08	9.63	9.66	98.15	-122.00	176.00	366.71	347.58	19.12	19.178	
5,600.00	5,587.08	5,598.93	5,587.08	9.72	9.75	98.15	-122.00	176.00	366.71	347.40	19.31	18.995	
5,700.00	5,687.08	5,698.93	5,687.08	9.81	9.84	98.15	-122.00	176.00	366.71	347.22	19.49	18.815	
5,800.00	5,787.08	5,798.93	5,787.08	9.91	9.93	98.15	-122.00	176.00	366.71	347.03	19.67	18.640	
5,900.00	5,887.08	5,898.93	5,887.08	10.00	10.02	98.15	-122.00	176.00	366.71	346.85	19.86	18.467	
6,000.00	5,987.08	5,998.93	5,987.08	10.09	10.12	98.15	-122.00	176.00	366.71	346.67	20.04	18.299	
6,100.00	6,087.08	6,098.93	6,087.08	10.19	10.21	98.15	-122.00	176.00	366.71	346.48	20.22	18.133	
6,200.00	6,187.08	6,198.93	6,187.08	10.28	10.30	98.15	-122.00	176.00	366.71	346.30	20.41	17.971	
6,300.00	6,287.08	6,298.93	6,287.08	10.37	10.39	98.15	-122.00	176.00	366.71	346.12	20.59	17.812	
6,400.00	6,387.08	6,398.93	6,387.08	10.47	10.48	98.15	-122.00	176.00	366.71	345.94	20.77	17.656	
6,500.00	6,487.08	6,498.93	6,487.08	10.56	10.57	98.15	-122.00	176.00	366.71	345.75	20.95	17.503	
6,600.00	6,587.08	6,598.93	6,587.08	10.65	10.66	98.15	-122.00	176.00	366.71	345.57	21.13	17.353	
6,700.00	6,687.08	6,698.93	6,687.08	10.74	10.75	98.15	-122.00	176.00	366.71	345.39	21.31	17.205	
6,800.00	6,787.08	6,798.93	6,787.08	10.84	10.84	98.15	-122.00	176.00	366.71	345.21	21.49	17.061	
6,900.00	6,887.08	6,898.93	6,887.08	10.93	10.93	98.15	-122.00	176.00	366.71	345.03	21.67	16.919	
7,000.00	6,987.08	6,998.93	6,987.08	11.02	11.02	98.15	-122.00	176.00	366.71	344.85	21.85	16.779	
7,100.00	7,087.08	7,098.93	7,087.08	11.11	11.11	98.15	-122.00	176.00	366.71	344.67	22.03	16.642	
7,200.00	7,187.08	7,198.93	7,187.08	11.20	11.20	98.15	-122.00	176.00	366.71	344.49	22.21	16.508	
7,300.00	7,287.08	7,298.93	7,287.08	11.29	11.29	98.15	-122.00	176.00	366.71	344.31	22.39	16.376	
7,400.00	7,387.08	7,398.93	7,387.08	11.38	11.38	98.15	-122.00	176.00	366.71	344.13	22.57	16.246	
7,500.00	7,487.08	7,498.93	7,487.08	11.47	11.47	98.15	-122.00	176.00	366.71	343.95	22.75	16.118	
7,600.00	7,587.08	7,598.93	7,587.08	11.57	11.56	98.15	-122.00	176.00	366.71	343.78	22.93	15.992	
7,700.00	7,687.08	7,698.93	7,687.08	11.66	11.65	98.15	-122.00	176.00	366.71	343.60	23.11	15.869	
7,800.00	7,787.08	7,798.93	7,787.08	11.75	11.74	98.15	-122.00	176.00	366.71	343.42	23.29	15.748	
7,900.00	7,887.08	7,898.93	7,887.08	11.84	11.83	98.15	-122.00	176.00	366.71	343.24	23.46	15.628	
8,000.00	7,987.08	7,998.93	7,987.08	11.93	11.92	98.15	-122.00	176.00	366.71	343.06	23.64	15.511	
8,100.00	8,087.08	8,098.93	8,087.08	12.02	12.01	98.15	-122.00	176.00	366.71	342.89	23.82	15.395	
8,200.00	8,187.08	8,198.93	8,187.08	12.11	12.10	98.15	-122.00	176.00	366.71	342.71	24.00	15.281	
8,300.00	8,287.08	8,298.93	8,287.08	12.20	12.19	98.15	-122.00	176.00	366.71	342.53	24.17	15.169	
8,400.00	8,387.08	8,398.93	8,387.08	12.29	12.27	98.15	-122.00	176.00	366.71	342.35	24.35	15.059	
8,500.00	8,487.08	8,498.93	8,487.08	12.38	12.36	98.15	-122.00	176.00	366.71	342.18	24.53	14.951	
8,600.00	8,587.08	8,598.93	8,587.08	12.47	12.45	98.15	-122.00	176.00	366.71	342.00	24.70	14.844	
8,700.00	8,687.08	8,698.93	8,687.08	12.56	12.54	98.15	-122.00	176.00	366.71	341.82	24.88	14.738	
8,800.00	8,787.08	8,798.93	8,787.08	12.65	12.63	98.15	-122.00	176.00	366.71	341.65	25.06	14.635	
8,900.00	8,887.08	8,898.93	8,887.08	12.73	12.72	98.15	-122.00	176.00	366.71	341.47	25.23	14.533	
9,000.00	8,987.08	8,998.93	8,987.08	12.82	12.81	98.15	-122.00	176.00	366.71	341.30	25.41	14.432	
9,100.00	9,087.08	9,098.93	9,087.08	12.91	12.89	98.15	-122.00	176.00	366.71	341.12	25.58	14.333	
9,200.00	9,187.08	9,198.93	9,187.08	13.00	12.98	98.15	-122.00	176.00	366.71	340.95	25.76	14.235	
9,300.00	9,287.08	9,298.93	9,287.08	13.09	13.07	98.15	-122.00	176.00	366.71	340.77	25.94	14.139	
9,400.00	9,387.08	9,398.93	9,387.08	13.18	13.16	98.15	-122.00	176.00	366.71	340.59	26.11	14.044	
9,500.00	9,487.08	9,498.93	9,487.08	13.27	13.25	98.15	-122.00	176.00	366.71	340.42	26.29	13.951	
9,600.00	9,587.08	9,598.93	9,587.08	13.36	13.33	98.15	-122.00	176.00	366.71	340.25	26.46	13.859	
9,700.00	9,687.08	9,698.93	9,687.08	13.45	13.42	98.15	-122.00	176.00	366.71	340.07	26.64	13.768	
9,800.00	9,787.08	9,798.93	9,787.08	13.53	13.51	98.15	-122.00	176.00	366.71	339.90	26.81	13.678	
9,900.00	9,887.08	9,898.93	9,887.08	13.62	13.60	98.15	-122.00	176.00	366.71	339.72	26.98	13.590	
10,000.00	9,987.08	9,998.93	9,987.08	13.71	13.68	98.15	-122.00	176.00	366.71	339.55	27.16	13.502	
10,100.00	10,087.08	10,098.93	10,087.08	13.80	13.77	98.15	-122.00	176.00	366.71	339.37	27.33	13.416	
10,200.00	10,187.08	10,198.93	10,187.08	13.89	13.86	98.15	-122.00	176.00	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 154H
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 154H	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 124H - 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		Highside Toolface (°)	Offset Wellbore Centre		Distance			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Separation Factor
10,300.00	10,287.08	10,298.93	10,287.08	13.98	13.95	98.15	-122.00	176.00	366.71	339.02	27.68	13.248	
10,400.00	10,387.08	10,398.93	10,387.08	14.06	14.03	98.15	-122.00	176.00	366.71	338.85	27.85	13.165	
10,500.00	10,487.08	10,498.93	10,487.08	14.15	14.12	98.15	-122.00	176.00	366.71	338.68	28.03	13.083	
10,600.00	10,587.08	10,598.93	10,587.08	14.24	14.21	98.15	-122.00	176.00	366.71	338.50	28.20	13.003	
10,700.00	10,687.08	10,700.34	10,688.23	14.33	14.31	97.27	-116.39	176.59	366.54	338.21	28.33	12.939	
10,745.78	10,732.87	10,745.72	10,732.87	14.37	14.38	96.00	-108.30	177.44	366.45	338.07	28.38	12.914	
10,800.00	10,787.08	10,797.42	10,782.75	14.41	14.47	93.89	-94.85	178.85	366.72	338.29	28.43	12.899	
10,900.00	10,887.08	10,885.08	10,863.86	14.50	14.62	88.76	-62.03	182.30	370.12	341.53	28.59	12.946	
11,000.00	10,987.08	10,961.18	10,929.51	14.59	14.74	82.95	-23.83	186.32	380.54	351.47	29.07	13.091	
11,100.00	11,087.08	11,025.73	10,980.78	14.68	14.83	77.29	15.10	190.41	401.22	371.08	30.15	13.309	
11,200.00	11,187.07	11,080.23	11,020.42	14.75	14.91	70.21	52.27	194.32	433.51	401.70	31.82	13.625	
11,300.00	11,286.00	11,132.03	11,054.64	14.93	14.97	62.29	90.91	198.38	472.53	438.79	33.74	14.004	
11,400.00	11,381.03	11,183.55	11,085.07	15.11	15.03	55.43	132.24	202.72	513.35	477.71	35.65	14.401	
11,500.00	11,469.29	11,234.86	11,111.54	15.27	15.09	49.81	175.94	207.32	553.11	515.70	37.41	14.786	
11,600.00	11,548.09	11,286.02	11,133.90	15.42	15.15	45.41	221.68	212.12	589.81	550.84	38.96	15.138	
11,700.00	11,615.03	11,337.05	11,152.05	15.54	15.22	42.08	269.10	217.11	622.05	581.77	40.28	15.441	
11,800.00	11,668.09	11,387.99	11,165.85	15.66	15.30	39.69	317.85	222.23	648.88	607.52	41.36	15.688	
11,900.00	11,705.65	11,450.00	11,176.71	15.79	15.44	38.07	378.53	228.61	669.80	627.67	42.13	15.898	
12,000.00	11,726.57	11,500.00	11,180.61	16.00	15.60	37.24	428.09	233.82	684.01	641.26	42.75	15.999	
12,100.00	11,730.73	11,560.86	11,180.62	16.38	15.86	37.14	488.64	239.95	691.38	648.30	43.08	16.049	
12,200.00	11,729.85	11,677.82	11,179.60	16.93	16.53	37.68	605.28	248.33	696.02	652.63	43.39	16.042	
12,300.00	11,728.97	11,795.31	11,178.57	17.60	17.36	37.98	722.70	251.95	698.49	654.64	43.85	15.930	
12,400.00	11,728.10	11,903.87	11,177.63	18.36	18.20	38.02	831.25	251.48	698.78	654.36	44.42	15.731	
12,500.00	11,727.22	12,003.87	11,176.76	19.19	19.04	38.02	931.25	250.52	698.77	653.70	45.08	15.502	
12,600.00	11,726.34	12,103.87	11,175.89	20.09	19.95	38.02	1,031.24	249.56	698.77	652.97	45.80	15.257	
12,700.00	11,725.47	12,203.87	11,175.02	21.03	20.91	38.02	1,131.23	248.61	698.76	652.18	46.58	15.001	
12,800.00	11,724.59	12,303.87	11,174.14	22.02	21.92	38.02	1,231.22	247.65	698.75	651.33	47.42	14.735	
12,900.00	11,723.71	12,403.87	11,173.27	23.06	22.96	38.02	1,331.21	246.69	698.75	650.43	48.32	14.461	
13,000.00	11,722.84	12,503.87	11,172.40	24.12	24.04	38.02	1,431.20	245.73	698.74	649.47	49.27	14.183	
13,100.00	11,721.96	12,603.87	11,171.53	25.22	25.15	38.02	1,531.20	244.78	698.73	648.47	50.26	13.901	
13,200.00	11,721.09	12,703.87	11,170.66	26.34	26.28	38.02	1,631.19	243.82	698.73	647.42	51.31	13.618	
13,300.00	11,720.21	12,803.87	11,169.79	27.49	27.43	38.02	1,731.18	242.86	698.72	646.33	52.39	13.336	
13,400.00	11,719.33	12,903.87	11,168.92	28.65	28.61	38.02	1,831.17	241.90	698.71	645.19	53.52	13.054	
13,500.00	11,718.46	13,003.87	11,168.05	29.83	29.80	38.02	1,931.16	240.94	698.71	644.02	54.69	12.776	
13,600.00	11,717.58	13,103.87	11,167.17	31.03	31.00	38.02	2,031.15	239.99	698.70	642.81	55.89	12.501	
13,700.00	11,716.70	13,203.87	11,166.30	32.25	32.22	38.02	2,131.15	239.03	698.69	641.56	57.13	12.230	
13,800.00	11,715.83	13,303.87	11,165.43	33.47	33.45	38.02	2,231.14	238.07	698.69	640.29	58.40	11.964	
13,900.00	11,714.95	13,403.87	11,164.56	34.71	34.70	38.02	2,331.13	237.11	698.68	638.98	59.69	11.704	
14,000.00	11,714.07	13,503.87	11,163.69	35.95	35.95	38.02	2,431.12	236.16	698.67	637.65	61.02	11.450	
14,100.00	11,713.20	13,603.87	11,162.82	37.21	37.21	38.02	2,531.11	235.20	698.67	636.29	62.37	11.202	
14,200.00	11,712.32	13,703.87	11,161.95	38.47	38.47	38.02	2,631.10	234.24	698.66	634.91	63.75	10.960	
14,300.00	11,711.44	13,803.87	11,161.08	39.74	39.75	38.02	2,731.10	233.28	698.65	633.51	65.15	10.725	
14,400.00	11,710.57	13,903.87	11,160.21	41.02	41.03	38.02	2,831.09	232.32	698.65	632.08	66.56	10.496	
14,500.00	11,709.69	14,003.87	11,159.33	42.30	42.32	38.02	2,931.08	231.37	698.64	630.63	68.00	10.273	
14,600.00	11,708.81	14,103.87	11,158.46	43.59	43.61	38.02	3,031.07	230.41	698.63	629.17	69.46	10.058	
14,700.00	11,707.94	14,203.87	11,157.59	44.88	44.91	38.02	3,131.06	229.45	698.63	627.69	70.94	9.848	
14,800.00	11,707.06	14,303.87	11,156.72	46.18	46.21	38.02	3,231.05	228.49	698.62	626.19	72.43	9.645	
14,900.00	11,706.19	14,403.87	11,155.85	47.48	47.51	38.02	3,331.04	227.54	698.61	624.67	73.94	9.448	
15,000.00	11,705.31	14,503.87	11,154.98	48.79	48.82	38.02	3,431.04	226.58	698.61	623.14	75.46	9.258	
15,100.00	11,704.43	14,603.87	11,154.11	50.10	50.13	38.02	3,531.03	225.62	698.60	621.60	77.00	9.073	
15,200.00	11,703.56	14,703.87	11,153.24	51.41	51.45	38.02	3,631.02	224.66	698.59	620.04	78.55	8.894	
15,300.00	11,702.68	14,803.87	11,152.37	52.73	52.77	38.02	3,731.01	223.71	698.59	618.48	80.11	8.720	

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 154H
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 154H	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 124H - 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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
15,400.00	11,701.80	14,903.87	11,151.49	54.04	54.09	38.02	3,831.00	222.75	698.58	616.90	81.68	8.552	
15,500.00	11,700.93	15,003.87	11,150.62	55.37	55.41	38.02	3,930.99	221.79	698.57	615.31	83.27	8.390	
15,600.00	11,700.05	15,103.87	11,149.75	56.69	56.74	38.02	4,030.99	220.83	698.56	613.70	84.86	8.232	
15,700.00	11,699.17	15,203.87	11,148.88	58.01	58.07	38.02	4,130.98	219.87	698.56	612.09	86.46	8.079	
15,800.00	11,698.30	15,303.87	11,148.01	59.34	59.40	38.02	4,230.97	218.92	698.55	610.47	88.08	7.931	
15,900.00	11,697.42	15,403.87	11,147.14	60.67	60.73	38.02	4,330.96	217.96	698.54	608.85	89.70	7.788	
16,000.00	11,696.54	15,503.87	11,146.27	62.00	62.06	38.02	4,430.95	217.00	698.54	607.21	91.33	7.649	
16,100.00	11,695.67	15,603.87	11,145.40	63.34	63.40	38.02	4,530.94	216.04	698.53	605.57	92.97	7.514	
16,200.00	11,694.79	15,703.87	11,144.52	64.67	64.73	38.02	4,630.94	215.09	698.52	603.91	94.61	7.383	
16,300.00	11,693.91	15,803.87	11,143.65	66.01	66.07	38.02	4,730.93	214.13	698.52	602.26	96.26	7.256	
16,400.00	11,693.04	15,903.87	11,142.78	67.35	67.41	38.02	4,830.92	213.17	698.51	600.59	97.92	7.133	
16,500.00	11,692.16	16,003.87	11,141.91	68.69	68.75	38.02	4,930.91	212.21	698.50	598.92	99.58	7.014	
16,600.00	11,691.28	16,103.87	11,141.04	70.03	70.10	38.02	5,030.90	211.25	698.50	597.24	101.25	6.898	
16,700.00	11,690.41	16,203.87	11,140.17	71.37	71.44	38.02	5,130.89	210.30	698.49	595.56	102.93	6.786	
16,800.00	11,689.53	16,303.87	11,139.30	72.71	72.78	38.02	5,230.89	209.34	698.48	593.87	104.61	6.677	
16,900.00	11,688.66	16,403.87	11,138.43	74.06	74.13	38.02	5,330.88	208.38	698.48	592.18	106.30	6.571	
17,000.00	11,687.78	16,503.87	11,137.56	75.40	75.48	38.02	5,430.87	207.42	698.47	590.48	107.99	6.468	
17,100.00	11,686.90	16,603.87	11,136.68	76.75	76.82	38.02	5,530.86	206.47	698.46	588.78	109.69	6.368	
17,200.00	11,686.03	16,703.87	11,135.81	78.10	78.17	38.02	5,630.85	205.51	698.46	587.07	111.39	6.270	
17,300.00	11,685.15	16,803.87	11,134.94	79.45	79.52	38.02	5,730.84	204.55	698.45	585.36	113.09	6.176	
17,400.00	11,684.27	16,903.87	11,134.07	80.79	80.87	38.02	5,830.84	203.59	698.44	583.64	114.80	6.084	
17,500.00	11,683.40	17,003.87	11,133.20	82.14	82.22	38.02	5,930.83	202.63	698.44	581.92	116.52	5.994	
17,600.00	11,682.52	17,103.87	11,132.33	83.50	83.57	38.02	6,030.82	201.68	698.43	580.20	118.23	5.907	
17,700.00	11,681.64	17,203.87	11,131.46	84.85	84.93	38.02	6,130.81	200.72	698.42	578.47	119.95	5.822	
17,800.00	11,680.77	17,303.87	11,130.59	86.20	86.28	38.02	6,230.80	199.76	698.42	576.74	121.68	5.740	
17,900.00	11,679.89	17,403.87	11,129.72	87.55	87.63	38.02	6,330.79	198.80	698.41	575.00	123.41	5.659	
18,000.00	11,679.01	17,503.87	11,128.84	88.90	88.99	38.02	6,430.79	197.85	698.40	573.27	125.14	5.581	
18,100.00	11,678.14	17,603.87	11,127.97	90.26	90.34	38.02	6,530.78	196.89	698.40	571.53	126.87	5.505	
18,200.00	11,677.26	17,703.87	11,127.10	91.61	91.70	38.02	6,630.77	195.93	698.39	569.78	128.60	5.431	
18,300.00	11,676.38	17,803.87	11,126.23	92.97	93.05	38.02	6,730.76	194.97	698.38	568.04	130.34	5.358	
18,400.00	11,675.51	17,903.87	11,125.36	94.32	94.41	38.02	6,830.75	194.01	698.38	566.29	132.09	5.287	
18,500.00	11,674.63	18,003.87	11,124.49	95.68	95.76	38.02	6,930.74	193.06	698.37	564.54	133.83	5.218	
18,600.00	11,673.76	18,103.87	11,123.62	97.03	97.12	38.02	7,030.73	192.10	698.36	562.79	135.58	5.151	
18,700.00	11,672.88	18,203.87	11,122.75	98.39	98.48	38.02	7,130.73	191.14	698.36	561.03	137.33	5.085	
18,800.00	11,672.00	18,303.87	11,121.88	99.75	99.84	38.02	7,230.72	190.18	698.35	559.27	139.08	5.021	
18,900.00	11,671.13	18,403.87	11,121.00	101.11	101.19	38.02	7,330.71	189.23	698.34	557.51	140.83	4.959	
19,000.00	11,670.25	18,503.87	11,120.13	102.46	102.55	38.02	7,430.70	188.27	698.34	555.75	142.59	4.898	
19,100.00	11,669.37	18,603.87	11,119.26	103.82	103.91	38.02	7,530.69	187.31	698.33	553.98	144.34	4.838	
19,200.00	11,668.50	18,703.87	11,118.39	105.18	105.27	38.02	7,630.68	186.35	698.32	552.22	146.10	4.780	
19,300.00	11,667.62	18,803.87	11,117.52	106.54	106.63	38.02	7,730.68	185.40	698.31	550.45	147.87	4.723	
19,400.00	11,666.74	18,903.87	11,116.65	107.90	107.99	38.02	7,830.67	184.44	698.31	548.68	149.63	4.667	
19,500.00	11,665.87	19,003.87	11,115.78	109.26	109.35	38.02	7,930.66	183.48	698.30	546.91	151.39	4.612	
19,600.00	11,664.99	19,103.87	11,114.91	110.62	110.71	38.02	8,030.65	182.52	698.29	545.13	153.16	4.559	
19,700.00	11,664.11	19,203.87	11,114.03	111.98	112.07	38.02	8,130.64	181.56	698.29	543.36	154.93	4.507	
19,800.00	11,663.24	19,303.87	11,113.16	113.34	113.43	38.02	8,230.63	180.61	698.28	541.58	156.70	4.456	
19,900.00	11,662.36	19,403.87	11,112.29	114.70	114.80	38.02	8,330.63	179.65	698.27	539.80	158.47	4.406	
20,000.00	11,661.48	19,503.87	11,111.42	116.06	116.16	38.02	8,430.62	178.69	698.27	538.02	160.24	4.358	
20,100.00	11,660.61	19,603.87	11,110.55	117.42	117.52	38.02	8,530.61	177.73	698.26	536.24	162.02	4.310	
20,200.00	11,659.73	19,703.87	11,109.68	118.78	118.88	38.02	8,630.60	176.78	698.25	534.46	163.79	4.263	
20,300.00	11,658.85	19,803.87	11,108.81	120.15	120.24	38.02	8,730.59	175.82	698.25	532.68	165.57	4.217	
20,400.00	11,657.98	19,903.87	11,107.94	121.51	121.61	38.02	8,830.58	174.86	698.24	530.89	167.35	4.172	
20,500.00	11,657.10	20,003.87	11,107.07	122.87	122.97	38.02	8,930.58	173.90	698.23	529.10	169.13	4.128	

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 154H
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 154H	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 124H - 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		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			
20,600.00	11,656.23	20,103.87	11,106.19	124.23	124.33	38.02	9,030.57	172.94	698.23	527.32	170.91	4.085			
20,700.00	11,655.35	20,203.87	11,105.32	125.60	125.70	38.02	9,130.56	171.99	698.22	525.53	172.69	4.043			
20,800.00	11,654.47	20,303.87	11,104.45	126.96	127.06	38.02	9,230.55	171.03	698.21	523.74	174.48	4.002			
20,900.00	11,653.60	20,403.87	11,103.58	128.32	128.42	38.02	9,330.54	170.07	698.21	521.95	176.26	3.961			
21,000.00	11,652.72	20,503.87	11,102.71	129.69	129.79	38.02	9,430.53	169.11	698.20	520.15	178.05	3.921			
21,100.00	11,651.84	20,603.87	11,101.84	131.05	131.15	38.02	9,530.53	168.16	698.19	518.36	179.83	3.882			
21,200.00	11,650.97	20,703.87	11,100.97	132.41	132.52	38.02	9,630.52	167.20	698.19	516.57	181.62	3.844			
21,300.00	11,650.09	20,803.87	11,100.10	133.78	133.88	38.02	9,730.51	166.24	698.18	514.77	183.41	3.807			
21,400.00	11,649.21	20,903.87	11,099.23	135.14	135.24	38.02	9,830.50	165.28	698.17	512.97	185.20	3.770			
21,500.00	11,648.34	21,003.87	11,098.35	136.51	136.61	38.02	9,930.49	164.32	698.17	511.18	186.99	3.734			
21,600.00	11,647.46	21,103.87	11,097.48	137.87	137.97	38.02	10,030.48	163.37	698.16	509.38	188.78	3.698			
21,700.00	11,646.58	21,203.87	11,096.61	139.24	139.34	38.02	10,130.48	162.41	698.15	507.58	190.57	3.663			
21,800.00	11,645.71	21,303.87	11,095.74	140.60	140.70	38.02	10,230.47	161.45	698.15	505.78	192.37	3.629			
21,900.00	11,644.83	21,403.87	11,094.87	141.97	142.07	38.02	10,330.46	160.49	698.14	503.98	194.16	3.596			
21,946.87	11,644.42	21,450.74	11,094.46	142.61	142.71	38.02	10,377.33	160.04	698.14	503.14	195.00	3.580 SF			

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



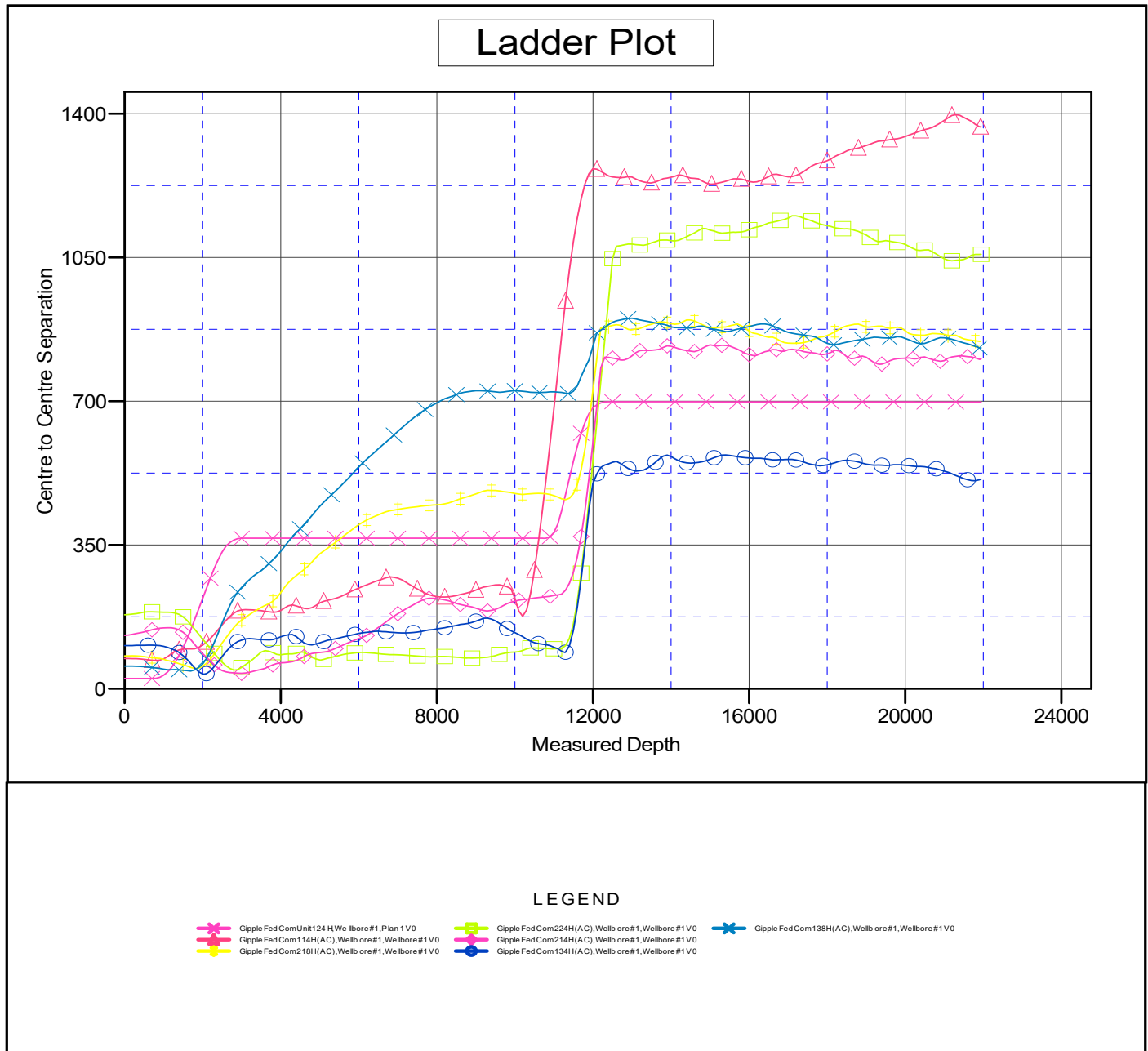
Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 154H
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 154H	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 154H
 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

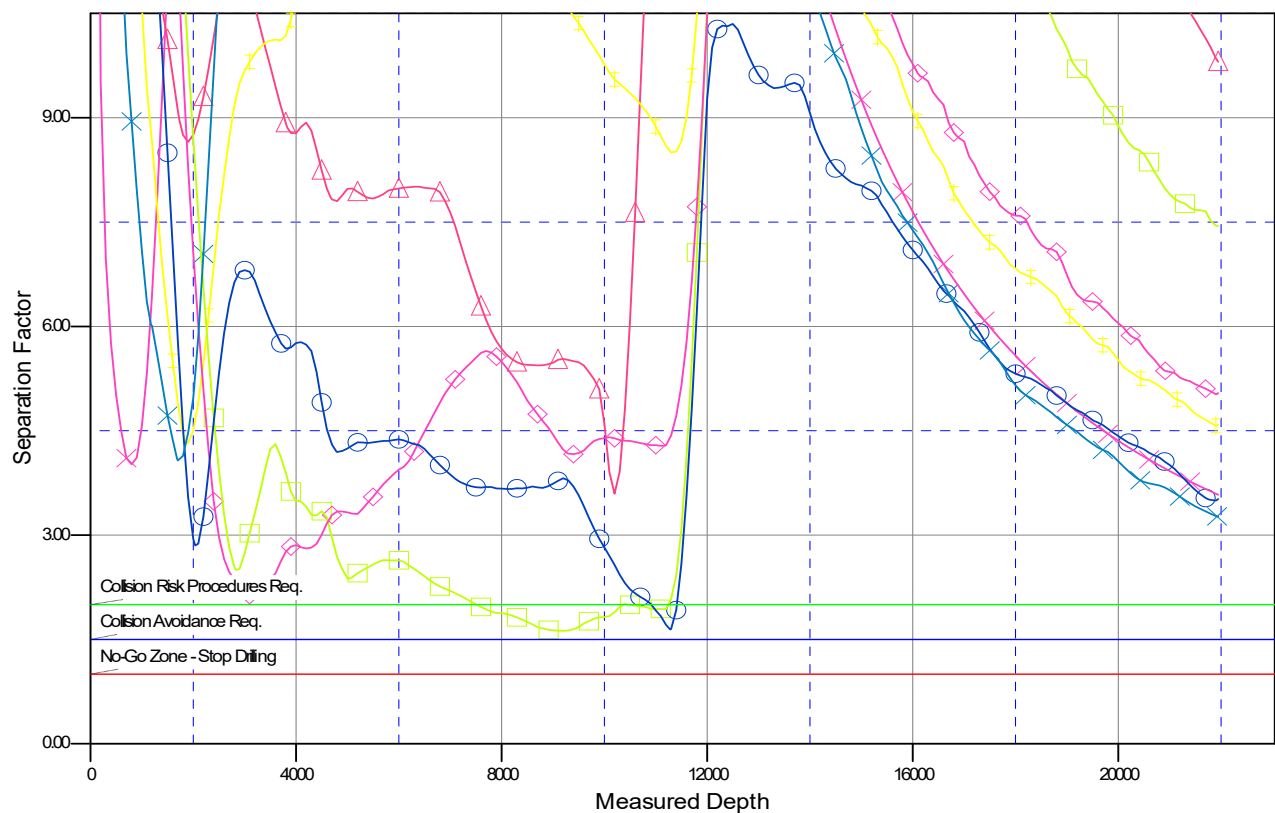


Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 154H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 154H	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 154H
 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 Unit 124H Wellbore #1, Plan 1 V0	Gipple Fed Com 224H(AC), Wellbore #1, Wellbore #1 V0	Gipple Fed Com 138H(AC), Wellbore #1, Wellbore #1 V0
Gipple Fed Com 114H(AC), Wellbore #1, Wellbore #1 V0	Gipple Fed Com 214H(AC), Wellbore #1, Wellbore #1 V0	
Gipple Fed Com 218H(AC), Wellbore #1, Wellbore #1 V0	Gipple Fed Com 134H(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 154H
LOCATION:	Sec 33-24S-35E-NMP
COUNTY:	Lea County, New Mexico

*Changes approved through engineering via **Sundry 2869663** 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

CONDITIONS

Action 526476

CONDITIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 526476
	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.	12/22/2025
matthew.gomez	All conducted logs must be submitted to the OCD.	12/22/2025
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.	12/22/2025
matthew.gomez	Surface casing shall be set a minimum of 25' into the Rustler Anhydrite, above the salt, and below usable fresh water and cemented to the surface. If salt is encountered set casing at least 25 ft. above the salt.	12/22/2025
matthew.gomez	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.	12/22/2025
matthew.gomez	Notify the OCD 24 hours prior to casing & cement.	12/22/2025
matthew.gomez	All previous COA's still apply.	12/22/2025
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.	12/22/2025