U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Sundry Print Report

01/27/2025

Well Name: DOUBLE STAMP FED COM

Well Location: T20S / R32E / SEC 14 / SWSE / 32.567419 / -103.7360276

County or Parish/State: LEA / NM

Well Number: 128H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM63016

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: CIVITAS PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2830703

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 01/12/2025

Time Sundry Submitted: 07:14

Date proposed operation will begin: 02/01/2025

Procedure Description: Civitas Permian Operating LLC (“CPO”) respectfully requests to amend the approved APD for the above-captioned well. CPO is proposing to amend the BHL and associated wellbore geometry. The proposed changes are as follows: 128H – Sundry ID #2830703 (30-025-54008) 1) SHL is unchanged. 2) Proposed KOP is Section 14, T20S, R32E @ 50’ FSL / 1650’ FEL. 3) Proposed FTP is Section 14, T20S, R32E @ 100’ FSL / 1650’ FEL. 4) Proposed LTP is Section 11, T20S, R32E @ 100’ FNL / 1650’ FEL. 5) Proposed BHL is Section 11, T20S, R32E @ 5’ FNL / 1650’ FEL. *Note – the Double Stamp FED COM #126H is also being sundried (ID #2830701) to account for these and other related changes. The location is currently under construction and first is anticipated in early February 2025. Attachments include: - Amended C-102 Well Location and Acreage Dedication Plat - Amended Anticollision Report - Amended Directional Plan - Amended Drilling Operations Plan

NOI Attachments

Procedure Description

APD_Drilling_Plan_Double_Stamp__128H_01.12.2025_20250112191341.pdf

Double_Stamp_Fed_Com_128H_Directional_Plan_01.12.2025_20250112191330.pdf

Double_Stamp_Fed_Com_128H_AC_01.12.2025_20250112191314.pdf

DOUBLE_STAMP_FED_COM_128H_C102_Revised_01.07.2025_20250112191304.pdf

Well Name: DOUBLE STAMP FED COM

Well Location: T20S / R32E / SEC 14 / SWSE / 32.567419 / -103.7360276

County or Parish/State: LEA / NM

Well Number: 128H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM63016

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: CIVITAS PERMIAN OPERATING LLC

Operator

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

Operator Electronic Signature: NATHAN BENNETT

Signed on: JAN 12, 2025 07:13 PM

Name: CIVITAS PERMIAN OPERATING LLC

Title: Director Permitting & Compliance

Street Address: 555 17TH STREET SUITE 3500

City: DENVER **State:** CO

Phone: (303) 312-8166

Email address: NBENNETT@CIVIRESOURCES.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: ALLISON MORENCY

BLM POC Title: Contractor WO

BLM POC Phone: 2029127157

BLM POC Email Address: amorency@blm.gov

Disposition: Approved

Disposition Date: 01/24/2025

Signature: Allison Morency

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

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

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

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool or Exploratory Area

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

11. Country or Parish, State

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ 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 recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be 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.)

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

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by

Title

Date

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

Office

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.
PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.
ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.
EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.
Response to this request is mandatory.
The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect ofthis form to U.S. Department ofthe Interior, Bureau ofLand 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

Additional Remarks

Attachments include:

- Amended C-102 Well Location and Acreage Dedication Plat
- Amended Anticollision Report
- Amended Directional Plan
- Amended Drilling Operations Plan

Location of Well

0. SHL: SWSE / 544 FSL / 2366 FEL / TWSP: 20S / RANGE: 32E / SECTION: 14 / LAT: 32.567419 / LONG: -103.7360276 (TVD: 0 feet, MD: 0 feet)

PPP: SESE / 100 FSL / 331 FEL / TWSP: 20S / RANGE: 32E / SECTION: 14 / LAT: 32.5661996 / LONG: -103.7294194 (TVD: 9608 feet, MD: 10220 feet)

BHL: NENE / 5 FNL / 331 FEL / TWSP: 20S / RANGE: 32E / SECTION: 11 / LAT: 32.5949837 / LONG: -103.7294355 (TVD: 9566 feet, MD: 20044 feet)

Drilling Operations Plan
Double Stamp Fed Com #128H
Civitas Permian Operating, LLC
SHL 544' FSL & 2366' FEL, Sec. 14
BHL 5' FNL & 1650' FEL, Sec. 11
T20S, R32E Lea County, NM

Elevation above Sea Level: 3533'

DRILLING PROGRAM

1. Estimated Tops

Formation	TVD	MD	Lithologies	Bearing
Rustler Anhydrite	1,530	1,538	Surface	Anhydrite
Top Salt	1,795	1,801	Salt	Salt
Yates	2,958	2,976	Sandstone	None
Capitan Reef Complex	3,596	3,620	Carbonate	None
DMG	4,665	4,701	Sandstone	None
Brushy Canyon	7,445	7,496	Sandstone	Hydrocarbons
Bone Spring Lime	7,770	7,821	Limestone	Hydrocarbons
Upper Avalon	7,830	7,878	Carbonate	Hydrocarbons
Middle Avalon	8,235	8,287	Carbonate	Hydrocarbons
Lower Avalon	8,570	8,621	Carbonate	Hydrocarbons
1st BS Sand	8,800	8,847	Sandstone	Hydrocarbons
2nd BS Carb	9,130	9,179	Carbonate	Hydrocarbons
2nd BS Sand	9,575	9,663	Sandstone	Hydrocarbons
KOP	9,185	9,234	Carbonate	Hydrocarbons
TD	9,809	20,076	Sandstone	Hydrocarbons

2. Notable Zones

2nd Bone Spring Sand is the formation target.

3. Pressure Control

Pressure Control Equipment (See Schematics):
At 20,076', 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 43 CFR 3172 for the pressure rating of the BOP stack. A rotating head will also be installed as needed. BOP will be inspected and operated as recommended in 43 CFR 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:

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After surface casing is set and the BOP is nippled 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:
Civitas requests a variance to run a multi-bowl speed head for setting the Intermediate and Production Strings. 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. 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.

4. Casing & Cement

All Casing will be new.
Casing Design:

Section	Drilled Interval			Casing Size	Standard	Tapered	Casing Set Depths				Casing Details					
	Hole Size	Top	Btm				Top MD	Bottom MD	Top TVD	BTM TVD	Grade	Weight	Thread	Collapse	Burst	Tension
Surface	20	0	1,563	16	API	No	0	1,563	0	1,563	J-55	75	BTC	1.13	1.15	1.6
1st Intermediate	14 3/4	1,563	3,026	11 3/4	API	No	0	3,026	0	2,858	J-55	47	BTC	1.13	1.15	1.6
2nd Intermediate	10 5/8	3,026	4,551	8 5/8	API	No	0	4,551	0	4,515	J-55	32	BTC	1.13	1.15	1.6
Production	7 7/8	4,551	20,076	5 1/2	NON API	No	0	20,076	0	9,809	P-110	20	Geoconn	1.13	1.15	1.6

Cement Volumes:

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Lead	0	1009	1.72	1736	13.5	75%	C	5% NCl + LCM
	Tail	1263	310	1.33	412	14.8	75%	C	5% NCl + LCM
1st Intermediate	Lead	0	485	2.72	1319	11.0	65%	C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	2326	229	1.72	394	13.5	30%	C	5% NaCl + LCM
2nd Intermediate	Lead	0	361	2.72	982	11.0	65%	C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	3551	159	1.72	273	13.5	30%	C	5% NaCl + LCM
Production	Lead	4351	268	3.38	906	10.5	20%	C	Fluid Loss + Dispersant + Retarder + LCM
	Tail	8734	2245	1.44	3232	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	1,563	FW Spud Mud	8.40	28	NC
1st Intermediate	1,563	3,026	Brine Water	10.00	27-30	NC
2nd Intermediate	3,026	4,551	FW/Cut Brine	9.00	27-30	NC
Production	4,551	20,076	FW/Cut Brine	9.00	27-30	NC

Electronic Pason mud monitor system complying with 43 CFR 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.

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T20S, R32E Lea County, NM

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.
- A 2-person mud logging program will be used 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 ≈ 4,577 psi. Expected bottom hole temperature is ≈165˚ F.

Civitas does not anticipate that there will be enough H2S from the surface to the 2nd Bone Spring Sand formations to meet the 43 CFR 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.

In the event H2S is encountered, it will be reported in a written format to the Division as stated in R-111-Q Section B.6.

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.

A. **Anticollision**: While drilling a SF of 1.0 will be maintained for any active or inactive well through the salt interval. For any wells that have only inclination surveys, maintaining a 300' center-to-center will be done.
B. **Centralization:**
    a. **Surface:**
        i. One centralizer per joint across the shoe track
        ii. One centralizer per 2 joints from casing shoe to the top of FW zone
        iii. One centralizer per 3 joints to surface
    b. **Intermediate 1:**
        i. One centralizer per joint across the shoe tack
        ii. One centralizer per 3 joints to surface
        iii. **Cement placement simulation attached**
C. **Bradenhead Squeeze Post Frac:** This will be performed post frac with the following slurry:

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Post Frac Bradenhead	Primary	2,870	249	1.72	428	13.5	0	C	5% NaCl + LCM

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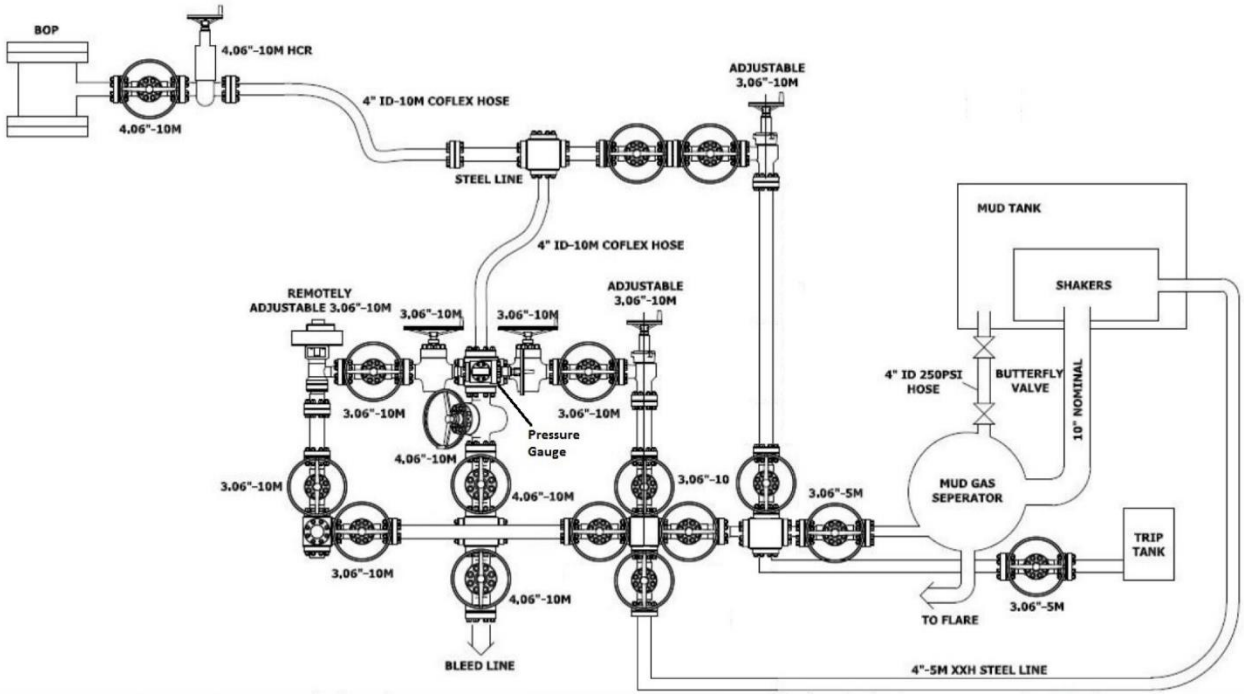
10M Choke Layout



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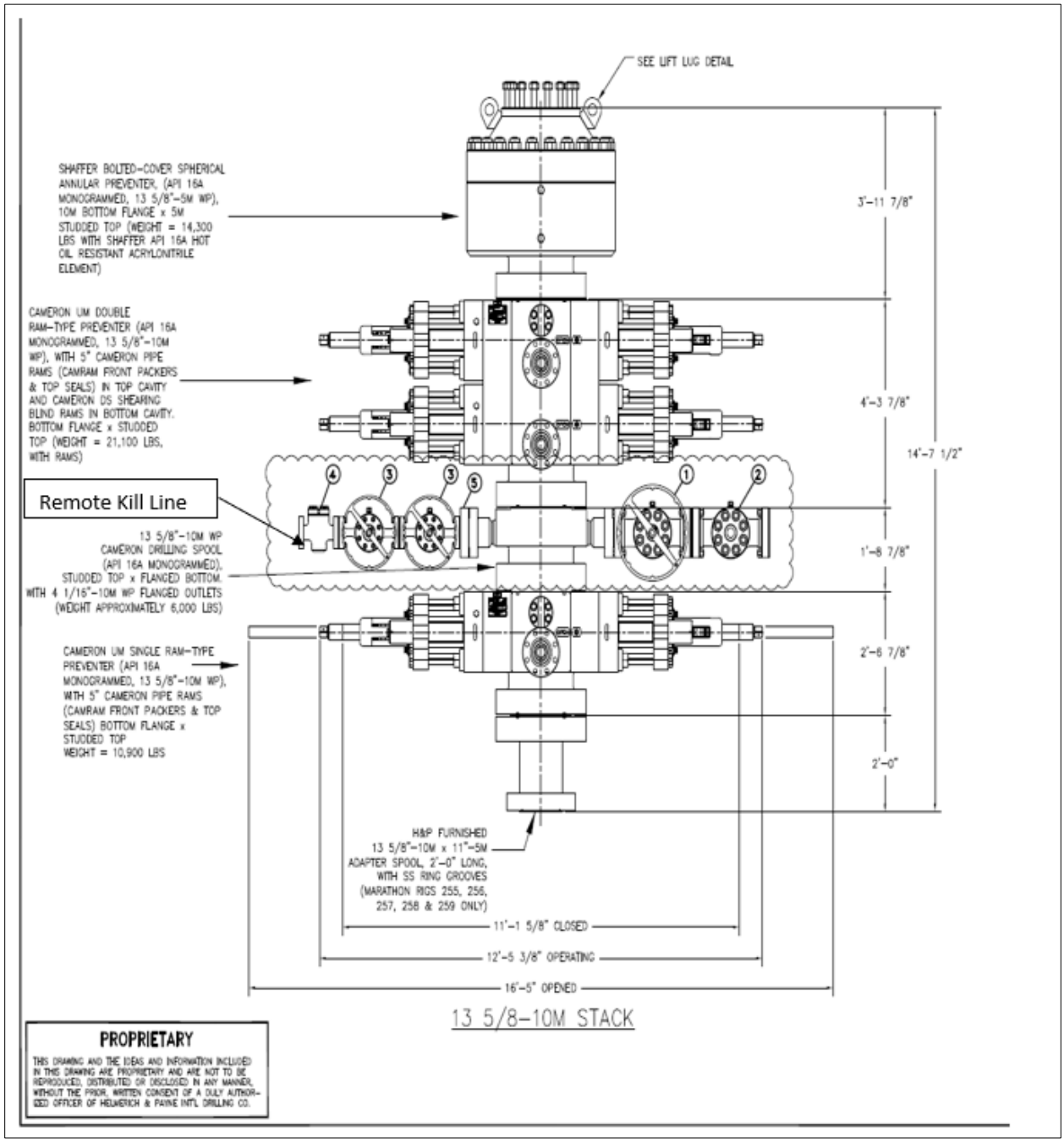
10,000 psi BOP Stack



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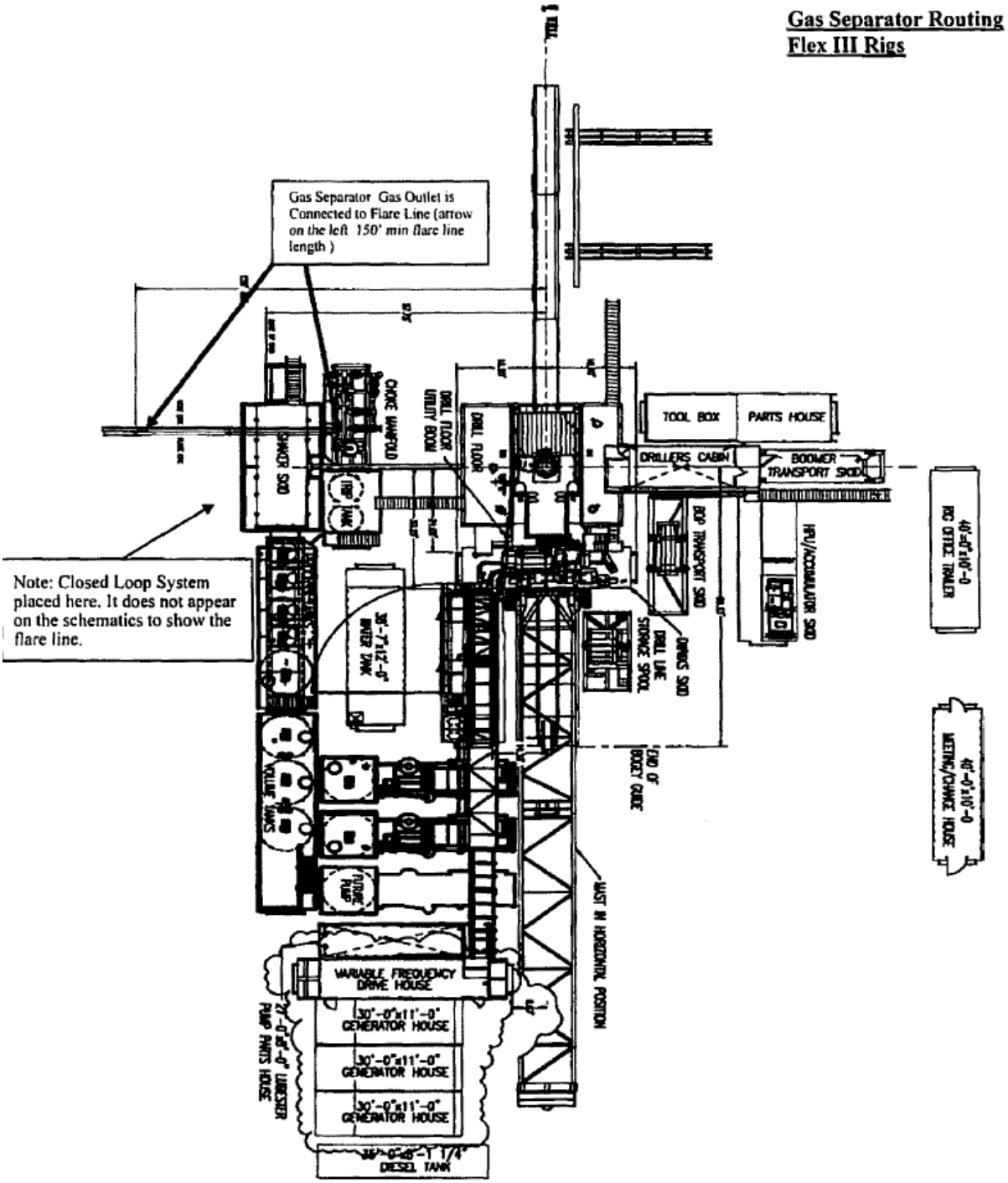
Gas Separator Routing
Flex III Rigs



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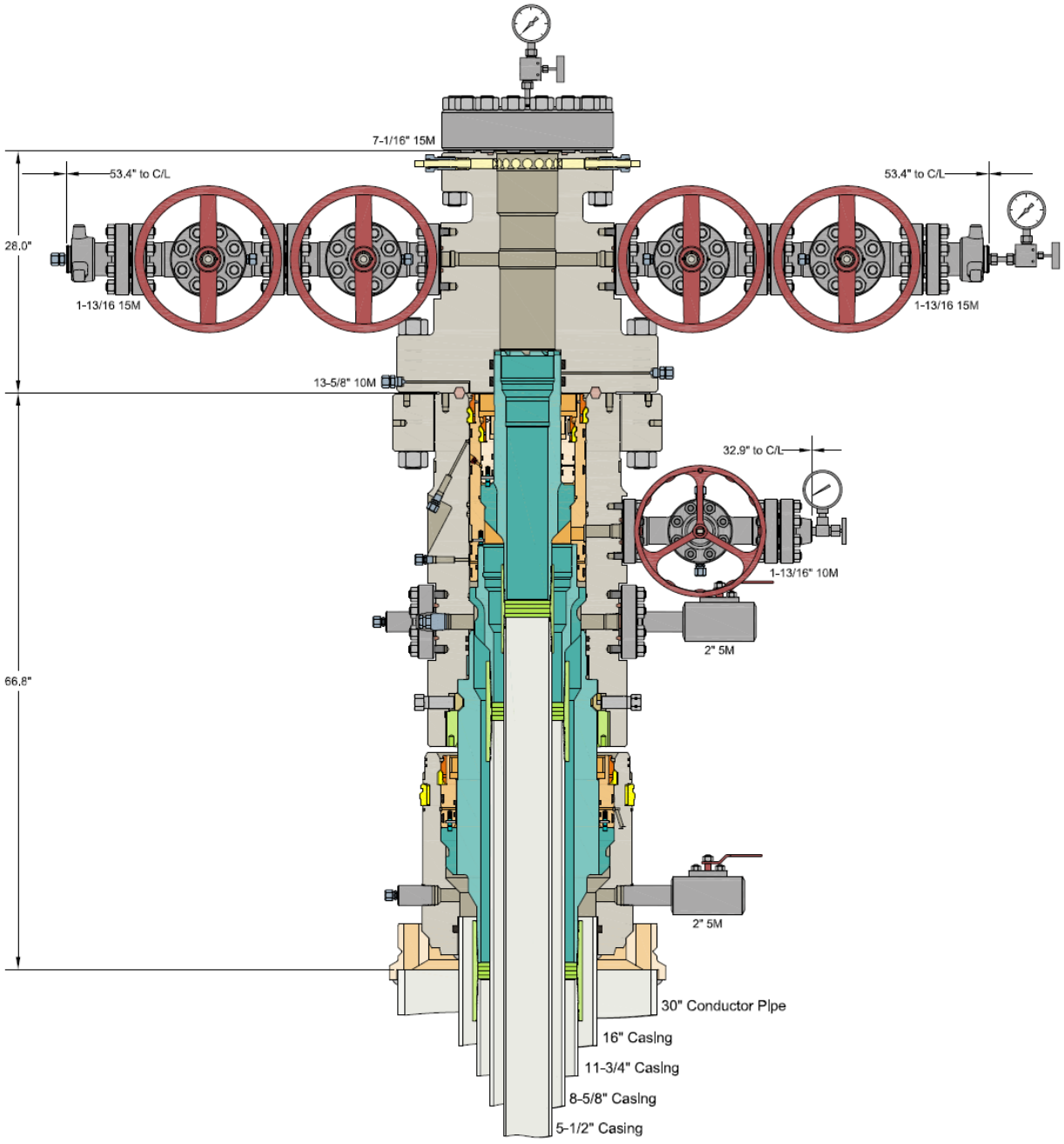
Multi-bowl Wellhead Design



Civitas Permian Operating, LLC

Lea County, New Mexico (NAD 83)
Double Stamp Project
Double Stamp Fed Com 128H

Wellbore #1

Plan: Design #0.0

Standard Planning Report

10 January, 2025

CIVITAS

MS Directional
Planning Report

MS Directional

Database:	TRG_EDMConroe	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Company:	Civitas Permian Operating, LLC	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Project:	Lea County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site:	Double Stamp Project	**North Reference:**	Grid
Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #0.0		

Project Lea County, New Mexico (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 Double Stamp Project

Site Position:		**Northing:**	570,674.00 usft	**Latitude:**	32.567438
From:	Map	**Easting:**	724,133.00 usft	**Longitude:**	-103.739969
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "		

Well Double Stamp Fed Com 128H

Well Position	**+N/-S**	0.00 usft	**Northing:**	570,674.00 usft	**Latitude:**	32.567419
	+E/-W	0.00 usft	**Easting:**	725,347.00 usft	**Longitude:**	-103.736029
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,533.00 usft
Grid Convergence:		0.322 °				

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2025	1/10/2025	6.383	60.250	47,546.400

Design Design #0.0

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	359.65

Plan Survey Tool Program **Date** 1/10/2025

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	20,076.24	Design #0.0 (Wellbore #1)	MWD+IFR1+SAG+FDIR OWSG MWD + IFR1 + Sag	

CIVITAS

MS Directional
Planning Report

MS Directional

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Project:	Lea County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site:	Double Stamp Project	**North Reference:**	Grid
Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #0.0		

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	0.000	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.000	
700.00	4.00	160.00	699.68	-13.12	4.77	1.00	1.00	0.00	160.000	
1,180.03	7.60	126.52	1,177.29	-47.77	36.04	1.00	0.75	-6.97	-60.703	
6,289.59	7.60	126.52	6,241.93	-450.12	579.30	0.00	0.00	0.00	0.000	
7,049.89	0.00	0.00	7,000.00	-480.10	619.78	1.00	-1.00	0.00	180.000	
9,234.89	0.00	0.00	9,185.00	-480.10	619.78	0.00	0.00	0.00	0.000	
10,131.89	89.70	7.20	9,757.95	85.36	691.22	10.00	10.00	0.00	7.200	
10,509.43	89.70	359.65	9,759.93	461.94	713.75	2.00	0.00	-2.00	-90.010	
20,076.24	89.70	359.65	9,809.81	10,028.45	655.18	0.00	0.00	0.00	0.000	PBHL - Double Star

CIVITAS

MS Directional
Planning Report

MS Directional

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Company:	Civitas Permian Operating, LLC	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Project:	Lea County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site:	Double Stamp Project	**North Reference:**	Grid
Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #0.0		

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
KOP, 1.00°/100' Build									
400.00	1.00	160.00	399.99	-0.82	0.30	-0.82	1.00	1.00	0.00
500.00	2.00	160.00	499.96	-3.28	1.19	-3.29	1.00	1.00	0.00
600.00	3.00	160.00	599.86	-7.38	2.69	-7.39	1.00	1.00	0.00
700.00	4.00	160.00	699.68	-13.12	4.77	-13.14	1.00	1.00	0.00
Begin 1.00°/100' Build & Turn									
800.00	4.57	149.00	799.40	-19.81	8.02	-19.86	1.00	0.57	-11.00
900.00	5.27	140.67	899.03	-26.78	12.99	-26.86	1.00	0.70	-8.33
1,000.00	6.06	134.39	998.54	-34.03	19.67	-34.15	1.00	0.79	-6.28
1,100.00	6.90	129.59	1,097.90	-41.55	28.08	-41.72	1.00	0.84	-4.80
1,180.03	7.60	126.52	1,177.29	-47.77	36.04	-47.99	1.00	0.88	-3.83
Hold 7.60° Inc, 126.52° Azm									
1,200.00	7.60	126.52	1,197.08	-49.34	38.16	-49.57	0.00	0.00	0.00
1,300.00	7.60	126.52	1,296.21	-57.22	48.79	-57.51	0.00	0.00	0.00
1,400.00	7.60	126.52	1,395.33	-65.09	59.43	-65.45	0.00	0.00	0.00
1,500.00	7.60	126.52	1,494.45	-72.96	70.06	-73.39	0.00	0.00	0.00
1,538.59	7.60	126.52	1,532.70	-76.00	74.16	-76.46	0.00	0.00	0.00
Rustler									
1,600.00	7.60	126.52	1,593.57	-80.84	80.69	-81.33	0.00	0.00	0.00
1,700.00	7.60	126.52	1,692.69	-88.71	91.32	-89.27	0.00	0.00	0.00
1,800.00	7.60	126.52	1,791.81	-96.59	101.95	-97.21	0.00	0.00	0.00
1,801.20	7.60	126.52	1,793.00	-96.68	102.08	-97.30	0.00	0.00	0.00
Salado									
1,900.00	7.60	126.52	1,890.93	-104.46	112.59	-105.15	0.00	0.00	0.00
2,000.00	7.60	126.52	1,990.05	-112.34	123.22	-113.09	0.00	0.00	0.00
2,100.00	7.60	126.52	2,089.17	-120.21	133.85	-121.03	0.00	0.00	0.00
2,200.00	7.60	126.52	2,188.29	-128.09	144.48	-128.97	0.00	0.00	0.00
2,300.00	7.60	126.52	2,287.41	-135.96	155.12	-136.91	0.00	0.00	0.00
2,400.00	7.60	126.52	2,386.53	-143.84	165.75	-144.85	0.00	0.00	0.00
2,500.00	7.60	126.52	2,485.66	-151.71	176.38	-152.79	0.00	0.00	0.00
2,600.00	7.60	126.52	2,584.78	-159.58	187.01	-160.72	0.00	0.00	0.00
2,700.00	7.60	126.52	2,683.90	-167.46	197.65	-168.66	0.00	0.00	0.00
2,800.00	7.60	126.52	2,783.02	-175.33	208.28	-176.60	0.00	0.00	0.00
2,900.00	7.60	126.52	2,882.14	-183.21	218.91	-184.54	0.00	0.00	0.00
2,976.53	7.60	126.52	2,958.00	-189.24	227.05	-190.62	0.00	0.00	0.00
Yates									
3,000.00	7.60	126.52	2,981.26	-191.08	229.54	-192.48	0.00	0.00	0.00
3,100.00	7.60	126.52	3,080.38	-198.96	240.18	-200.42	0.00	0.00	0.00
3,200.00	7.60	126.52	3,179.50	-206.83	250.81	-208.36	0.00	0.00	0.00
3,300.00	7.60	126.52	3,278.62	-214.71	261.44	-216.30	0.00	0.00	0.00
3,400.00	7.60	126.52	3,377.74	-222.58	272.07	-224.24	0.00	0.00	0.00
3,500.00	7.60	126.52	3,476.86	-230.46	282.70	-232.18	0.00	0.00	0.00
3,600.00	7.60	126.52	3,575.98	-238.33	293.34	-240.12	0.00	0.00	0.00
3,620.70	7.60	126.52	3,596.50	-239.96	295.54	-241.76	0.00	0.00	0.00
Capitan Reef Complex									
3,700.00	7.60	126.52	3,675.11	-246.21	303.97	-248.06	0.00	0.00	0.00
3,800.00	7.60	126.52	3,774.23	-254.08	314.60	-256.00	0.00	0.00	0.00
3,900.00	7.60	126.52	3,873.35	-261.95	325.23	-263.94	0.00	0.00	0.00
4,000.00	7.60	126.52	3,972.47	-269.83	335.87	-271.88	0.00	0.00	0.00

CIVITAS

MS Directional
Planning Report

MS Directional

Database:	TRG_EDMConroe	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Company:	Civitas Permian Operating, LLC	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Project:	Lea County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site:	Double Stamp Project	**North Reference:**	Grid
Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #0.0		

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)
4,100.00	7.60	126.52	4,071.59	-277.70	346.50	-279.81	0.00	0.00	0.00
4,200.00	7.60	126.52	4,170.71	-285.58	357.13	-287.75	0.00	0.00	0.00
4,300.00	7.60	126.52	4,269.83	-293.45	367.76	-295.69	0.00	0.00	0.00
4,400.00	7.60	126.52	4,368.95	-301.33	378.40	-303.63	0.00	0.00	0.00
4,500.00	7.60	126.52	4,468.07	-309.20	389.03	-311.57	0.00	0.00	0.00
4,600.00	7.60	126.52	4,567.19	-317.08	399.66	-319.51	0.00	0.00	0.00
4,700.00	7.60	126.52	4,666.31	-324.95	410.29	-327.45	0.00	0.00	0.00
4,701.40	7.60	126.52	4,667.70	-325.06	410.44	-327.56	0.00	0.00	0.00
DMG									
4,800.00	7.60	126.52	4,765.44	-332.83	420.92	-335.39	0.00	0.00	0.00
4,900.00	7.60	126.52	4,864.56	-340.70	431.56	-343.33	0.00	0.00	0.00
5,000.00	7.60	126.52	4,963.68	-348.57	442.19	-351.27	0.00	0.00	0.00
5,100.00	7.60	126.52	5,062.80	-356.45	452.82	-359.21	0.00	0.00	0.00
5,200.00	7.60	126.52	5,161.92	-364.32	463.45	-367.15	0.00	0.00	0.00
5,300.00	7.60	126.52	5,261.04	-372.20	474.09	-375.09	0.00	0.00	0.00
5,400.00	7.60	126.52	5,360.16	-380.07	484.72	-383.03	0.00	0.00	0.00
5,500.00	7.60	126.52	5,459.28	-387.95	495.35	-390.97	0.00	0.00	0.00
5,600.00	7.60	126.52	5,558.40	-395.82	505.98	-398.91	0.00	0.00	0.00
5,700.00	7.60	126.52	5,657.52	-403.70	516.62	-406.84	0.00	0.00	0.00
5,800.00	7.60	126.52	5,756.64	-411.57	527.25	-414.78	0.00	0.00	0.00
5,900.00	7.60	126.52	5,855.76	-419.45	537.88	-422.72	0.00	0.00	0.00
6,000.00	7.60	126.52	5,954.89	-427.32	548.51	-430.66	0.00	0.00	0.00
6,100.00	7.60	126.52	6,054.01	-435.19	559.14	-438.60	0.00	0.00	0.00
6,200.00	7.60	126.52	6,153.13	-443.07	569.78	-446.54	0.00	0.00	0.00
6,289.59	7.60	126.52	6,241.93	-450.12	579.30	-453.65	0.00	0.00	0.00
Begin 1.00°/100' Drop									
6,300.00	7.50	126.52	6,252.25	-450.94	580.40	-454.48	1.00	-1.00	0.00
6,400.00	6.50	126.52	6,351.50	-458.19	590.19	-461.79	1.00	-1.00	0.00
6,500.00	5.50	126.52	6,450.95	-464.41	598.59	-468.06	1.00	-1.00	0.00
6,600.00	4.50	126.52	6,550.57	-469.60	605.59	-473.29	1.00	-1.00	0.00
6,700.00	3.50	126.52	6,650.33	-473.75	611.20	-477.47	1.00	-1.00	0.00
6,800.00	2.50	126.52	6,750.19	-476.86	615.40	-480.61	1.00	-1.00	0.00
6,900.00	1.50	126.52	6,850.13	-478.94	618.21	-482.70	1.00	-1.00	0.00
7,000.00	0.50	126.52	6,950.11	-479.97	619.61	-483.75	1.00	-1.00	0.00
7,049.89	0.00	0.00	7,000.00	-480.10	619.78	-483.88	1.00	-1.00	0.00
Begin Vertical Hold									
7,100.00	0.00	0.00	7,050.11	-480.10	619.78	-483.88	0.00	0.00	0.00
7,200.00	0.00	0.00	7,150.11	-480.10	619.78	-483.88	0.00	0.00	0.00
7,300.00	0.00	0.00	7,250.11	-480.10	619.78	-483.88	0.00	0.00	0.00
7,400.00	0.00	0.00	7,350.11	-480.10	619.78	-483.88	0.00	0.00	0.00
7,496.09	0.00	0.00	7,446.20	-480.10	619.78	-483.88	0.00	0.00	0.00
Brushy Canyon									
7,500.00	0.00	0.00	7,450.11	-480.10	619.78	-483.88	0.00	0.00	0.00
7,600.00	0.00	0.00	7,550.11	-480.10	619.78	-483.88	0.00	0.00	0.00
7,700.00	0.00	0.00	7,650.11	-480.10	619.78	-483.88	0.00	0.00	0.00
7,800.00	0.00	0.00	7,750.11	-480.10	619.78	-483.88	0.00	0.00	0.00
7,821.49	0.00	0.00	7,771.60	-480.10	619.78	-483.88	0.00	0.00	0.00
Bone Spring									
7,878.99	0.00	0.00	7,829.10	-480.10	619.78	-483.88	0.00	0.00	0.00
Upper Avalon									
7,900.00	0.00	0.00	7,850.11	-480.10	619.78	-483.88	0.00	0.00	0.00
8,000.00	0.00	0.00	7,950.11	-480.10	619.78	-483.88	0.00	0.00	0.00
8,100.00	0.00	0.00	8,050.11	-480.10	619.78	-483.88	0.00	0.00	0.00

CIVITAS

MS Directional
Planning Report

MS Directional

Database:	TRG_EDMConroe	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Company:	Civitas Permian Operating, LLC	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Project:	Lea County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site:	Double Stamp Project	**North Reference:**	Grid
Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #0.0		

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)
8,200.00	0.00	0.00	8,150.11	-480.10	619.78	-483.88	0.00	0.00	0.00
8,287.19	0.00	0.00	8,237.30	-480.10	619.78	-483.88	0.00	0.00	0.00
Middle Avalon									
8,300.00	0.00	0.00	8,250.11	-480.10	619.78	-483.88	0.00	0.00	0.00
8,400.00	0.00	0.00	8,350.11	-480.10	619.78	-483.88	0.00	0.00	0.00
8,500.00	0.00	0.00	8,450.11	-480.10	619.78	-483.88	0.00	0.00	0.00
8,600.00	0.00	0.00	8,550.11	-480.10	619.78	-483.88	0.00	0.00	0.00
8,621.49	0.00	0.00	8,571.60	-480.10	619.78	-483.88	0.00	0.00	0.00
Lower Avalon									
8,700.00	0.00	0.00	8,650.11	-480.10	619.78	-483.88	0.00	0.00	0.00
8,800.00	0.00	0.00	8,750.11	-480.10	619.78	-483.88	0.00	0.00	0.00
8,847.89	0.00	0.00	8,798.00	-480.10	619.78	-483.88	0.00	0.00	0.00
1st Bone Spring Sand									
8,900.00	0.00	0.00	8,850.11	-480.10	619.78	-483.88	0.00	0.00	0.00
9,000.00	0.00	0.00	8,950.11	-480.10	619.78	-483.88	0.00	0.00	0.00
9,100.00	0.00	0.00	9,050.11	-480.10	619.78	-483.88	0.00	0.00	0.00
9,179.19	0.00	0.00	9,129.30	-480.10	619.78	-483.88	0.00	0.00	0.00
2nd Bone Spring Carb									
9,200.00	0.00	0.00	9,150.11	-480.10	619.78	-483.88	0.00	0.00	0.00
9,234.89	0.00	0.00	9,185.00	-480.10	619.78	-483.88	0.00	0.00	0.00
Begin 10.00°/100' Build									
9,250.00	1.51	7.20	9,200.11	-479.91	619.81	-483.68	10.00	10.00	0.00
9,300.00	6.51	7.20	9,249.97	-476.44	620.24	-480.22	10.00	10.00	0.00
9,350.00	11.51	7.20	9,299.34	-468.67	621.23	-472.46	10.00	10.00	0.00
9,400.00	16.51	7.20	9,347.83	-456.66	622.74	-460.46	10.00	10.00	0.00
9,450.00	21.51	7.20	9,395.09	-440.51	624.78	-444.32	10.00	10.00	0.00
9,500.00	26.51	7.20	9,440.75	-420.33	627.33	-424.16	10.00	10.00	0.00
9,550.00	31.51	7.20	9,484.46	-396.28	630.37	-400.12	10.00	10.00	0.00
9,600.00	36.51	7.20	9,525.90	-368.54	633.87	-372.41	10.00	10.00	0.00
9,650.00	41.51	7.20	9,564.74	-337.33	637.82	-341.22	10.00	10.00	0.00
9,663.17	42.83	7.20	9,574.50	-328.55	638.93	-332.45	10.00	10.00	0.00
2nd Bone Spring Sand									
9,700.00	46.51	7.20	9,600.68	-302.87	642.17	-306.79	10.00	10.00	0.00
9,750.00	51.51	7.20	9,633.47	-265.44	646.90	-269.39	10.00	10.00	0.00
9,800.00	56.51	7.20	9,662.84	-225.32	651.97	-229.29	10.00	10.00	0.00
9,850.00	61.51	7.20	9,688.58	-182.80	657.34	-186.82	10.00	10.00	0.00
9,900.00	66.51	7.20	9,710.48	-138.23	662.97	-142.28	10.00	10.00	0.00
9,950.00	71.51	7.20	9,728.38	-91.93	668.82	-96.01	10.00	10.00	0.00
10,000.00	76.51	7.20	9,742.15	-44.26	674.84	-48.38	10.00	10.00	0.00
10,050.00	81.51	7.20	9,751.68	4.42	680.99	0.26	10.00	10.00	0.00
10,100.00	86.51	7.20	9,756.90	53.74	687.22	49.54	10.00	10.00	0.00
10,131.89	89.70	7.20	9,757.95	85.36	691.22	81.14	10.00	10.00	0.00
Hold 89.70° Inc, Begin 2°/100' Turn									
10,200.00	89.70	5.84	9,758.31	153.03	698.95	148.76	2.00	0.00	-2.00
10,300.00	89.70	3.84	9,758.83	252.67	707.38	248.34	2.00	0.00	-2.00
10,400.00	89.70	1.84	9,759.35	352.54	712.33	348.18	2.00	0.00	-2.00
10,509.43	89.70	359.65	9,759.93	461.94	713.75	457.58	2.00	0.00	-2.00
Hold 359.65° Azm									
10,600.00	89.70	359.65	9,760.40	552.52	713.20	548.15	0.00	0.00	0.00
10,700.00	89.70	359.65	9,760.92	652.51	712.58	648.15	0.00	0.00	0.00
10,800.00	89.70	359.65	9,761.44	752.51	711.97	748.15	0.00	0.00	0.00
10,900.00	89.70	359.65	9,761.96	852.51	711.36	848.14	0.00	0.00	0.00
11,000.00	89.70	359.65	9,762.48	952.50	710.75	948.14	0.00	0.00	0.00

CIVITAS

MS Directional
Planning Report

MS Directional

Database:	TRG_EDMConroe	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Company:	Civitas Permian Operating, LLC	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Project:	Lea County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site:	Double Stamp Project	**North Reference:**	Grid
Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #0.0		

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)
11,100.00	89.70	359.65	9,763.01	1,052.50	710.13	1,048.14	0.00	0.00	0.00
11,200.00	89.70	359.65	9,763.53	1,152.50	709.52	1,148.14	0.00	0.00	0.00
11,300.00	89.70	359.65	9,764.05	1,252.49	708.91	1,248.14	0.00	0.00	0.00
11,400.00	89.70	359.65	9,764.57	1,352.49	708.30	1,348.14	0.00	0.00	0.00
11,500.00	89.70	359.65	9,765.09	1,452.49	707.69	1,448.14	0.00	0.00	0.00
11,600.00	89.70	359.65	9,765.61	1,552.48	707.07	1,548.14	0.00	0.00	0.00
11,700.00	89.70	359.65	9,766.13	1,652.48	706.46	1,648.13	0.00	0.00	0.00
11,800.00	89.70	359.65	9,766.66	1,752.48	705.85	1,748.13	0.00	0.00	0.00
11,900.00	89.70	359.65	9,767.18	1,852.47	705.24	1,848.13	0.00	0.00	0.00
12,000.00	89.70	359.65	9,767.70	1,952.47	704.62	1,948.13	0.00	0.00	0.00
12,100.00	89.70	359.65	9,768.22	2,052.47	704.01	2,048.13	0.00	0.00	0.00
12,200.00	89.70	359.65	9,768.74	2,152.46	703.40	2,148.13	0.00	0.00	0.00
12,300.00	89.70	359.65	9,769.26	2,252.46	702.79	2,248.13	0.00	0.00	0.00
12,400.00	89.70	359.65	9,769.78	2,352.46	702.18	2,348.12	0.00	0.00	0.00
12,500.00	89.70	359.65	9,770.31	2,452.45	701.56	2,448.12	0.00	0.00	0.00
12,600.00	89.70	359.65	9,770.83	2,552.45	700.95	2,548.12	0.00	0.00	0.00
12,700.00	89.70	359.65	9,771.35	2,652.45	700.34	2,648.12	0.00	0.00	0.00
12,800.00	89.70	359.65	9,771.87	2,752.44	699.73	2,748.12	0.00	0.00	0.00
12,900.00	89.70	359.65	9,772.39	2,852.44	699.11	2,848.12	0.00	0.00	0.00
13,000.00	89.70	359.65	9,772.91	2,952.44	698.50	2,948.12	0.00	0.00	0.00
13,100.00	89.70	359.65	9,773.43	3,052.43	697.89	3,048.11	0.00	0.00	0.00
13,200.00	89.70	359.65	9,773.96	3,152.43	697.28	3,148.11	0.00	0.00	0.00
13,300.00	89.70	359.65	9,774.48	3,252.43	696.66	3,248.11	0.00	0.00	0.00
13,400.00	89.70	359.65	9,775.00	3,352.43	696.05	3,348.11	0.00	0.00	0.00
13,500.00	89.70	359.65	9,775.52	3,452.42	695.44	3,448.11	0.00	0.00	0.00
13,600.00	89.70	359.65	9,776.04	3,552.42	694.83	3,548.11	0.00	0.00	0.00
13,700.00	89.70	359.65	9,776.56	3,652.42	694.22	3,648.11	0.00	0.00	0.00
13,800.00	89.70	359.65	9,777.08	3,752.41	693.60	3,748.11	0.00	0.00	0.00
13,900.00	89.70	359.65	9,777.61	3,852.41	692.99	3,848.10	0.00	0.00	0.00
14,000.00	89.70	359.65	9,778.13	3,952.41	692.38	3,948.10	0.00	0.00	0.00
14,100.00	89.70	359.65	9,778.65	4,052.40	691.77	4,048.10	0.00	0.00	0.00
14,200.00	89.70	359.65	9,779.17	4,152.40	691.15	4,148.10	0.00	0.00	0.00
14,300.00	89.70	359.65	9,779.69	4,252.40	690.54	4,248.10	0.00	0.00	0.00
14,400.00	89.70	359.65	9,780.21	4,352.39	689.93	4,348.10	0.00	0.00	0.00
14,500.00	89.70	359.65	9,780.73	4,452.39	689.32	4,448.10	0.00	0.00	0.00
14,600.00	89.70	359.65	9,781.26	4,552.39	688.71	4,548.09	0.00	0.00	0.00
14,700.00	89.70	359.65	9,781.78	4,652.38	688.09	4,648.09	0.00	0.00	0.00
14,800.00	89.70	359.65	9,782.30	4,752.38	687.48	4,748.09	0.00	0.00	0.00
14,900.00	89.70	359.65	9,782.82	4,852.38	686.87	4,848.09	0.00	0.00	0.00
15,000.00	89.70	359.65	9,783.34	4,952.37	686.26	4,948.09	0.00	0.00	0.00
15,100.00	89.70	359.65	9,783.86	5,052.37	685.64	5,048.09	0.00	0.00	0.00
15,200.00	89.70	359.65	9,784.38	5,152.37	685.03	5,148.09	0.00	0.00	0.00
15,300.00	89.70	359.65	9,784.91	5,252.36	684.42	5,248.09	0.00	0.00	0.00
15,400.00	89.70	359.65	9,785.43	5,352.36	683.81	5,348.08	0.00	0.00	0.00
15,500.00	89.70	359.65	9,785.95	5,452.36	683.19	5,448.08	0.00	0.00	0.00
15,600.00	89.70	359.65	9,786.47	5,552.35	682.58	5,548.08	0.00	0.00	0.00
15,700.00	89.70	359.65	9,786.99	5,652.35	681.97	5,648.08	0.00	0.00	0.00
15,800.00	89.70	359.65	9,787.51	5,752.35	681.36	5,748.08	0.00	0.00	0.00
15,900.00	89.70	359.65	9,788.03	5,852.34	680.75	5,848.08	0.00	0.00	0.00
16,000.00	89.70	359.65	9,788.56	5,952.34	680.13	5,948.08	0.00	0.00	0.00
16,100.00	89.70	359.65	9,789.08	6,052.34	679.52	6,048.07	0.00	0.00	0.00
16,200.00	89.70	359.65	9,789.60	6,152.33	678.91	6,148.07	0.00	0.00	0.00
16,300.00	89.70	359.65	9,790.12	6,252.33	678.30	6,248.07	0.00	0.00	0.00
16,400.00	89.70	359.65	9,790.64	6,352.33	677.68	6,348.07	0.00	0.00	0.00

CIVITAS

MS Directional
Planning Report

MS Directional

Database:	TRG_EDMConroe	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Company:	Civitas Permian Operating, LLC	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Project:	Lea County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site:	Double Stamp Project	**North Reference:**	Grid
Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #0.0		

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)
16,500.00	89.70	359.65	9,791.16	6,452.33	677.07	6,448.07	0.00	0.00	0.00
16,600.00	89.70	359.65	9,791.68	6,552.32	676.46	6,548.07	0.00	0.00	0.00
16,700.00	89.70	359.65	9,792.21	6,652.32	675.85	6,648.07	0.00	0.00	0.00
16,800.00	89.70	359.65	9,792.73	6,752.32	675.24	6,748.06	0.00	0.00	0.00
16,900.00	89.70	359.65	9,793.25	6,852.31	674.62	6,848.06	0.00	0.00	0.00
17,000.00	89.70	359.65	9,793.77	6,952.31	674.01	6,948.06	0.00	0.00	0.00
17,100.00	89.70	359.65	9,794.29	7,052.31	673.40	7,048.06	0.00	0.00	0.00
17,200.00	89.70	359.65	9,794.81	7,152.30	672.79	7,148.06	0.00	0.00	0.00
17,300.00	89.70	359.65	9,795.33	7,252.30	672.17	7,248.06	0.00	0.00	0.00
17,400.00	89.70	359.65	9,795.86	7,352.30	671.56	7,348.06	0.00	0.00	0.00
17,500.00	89.70	359.65	9,796.38	7,452.29	670.95	7,448.06	0.00	0.00	0.00
17,600.00	89.70	359.65	9,796.90	7,552.29	670.34	7,548.05	0.00	0.00	0.00
17,700.00	89.70	359.65	9,797.42	7,652.29	669.72	7,648.05	0.00	0.00	0.00
17,800.00	89.70	359.65	9,797.94	7,752.28	669.11	7,748.05	0.00	0.00	0.00
17,900.00	89.70	359.65	9,798.46	7,852.28	668.50	7,848.05	0.00	0.00	0.00
18,000.00	89.70	359.65	9,798.98	7,952.28	667.89	7,948.05	0.00	0.00	0.00
18,100.00	89.70	359.65	9,799.51	8,052.27	667.28	8,048.05	0.00	0.00	0.00
18,200.00	89.70	359.65	9,800.03	8,152.27	666.66	8,148.05	0.00	0.00	0.00
18,300.00	89.70	359.65	9,800.55	8,252.27	666.05	8,248.04	0.00	0.00	0.00
18,400.00	89.70	359.65	9,801.07	8,352.26	665.44	8,348.04	0.00	0.00	0.00
18,500.00	89.70	359.65	9,801.59	8,452.26	664.83	8,448.04	0.00	0.00	0.00
18,600.00	89.70	359.65	9,802.11	8,552.26	664.21	8,548.04	0.00	0.00	0.00
18,700.00	89.70	359.65	9,802.63	8,652.25	663.60	8,648.04	0.00	0.00	0.00
18,800.00	89.70	359.65	9,803.16	8,752.25	662.99	8,748.04	0.00	0.00	0.00
18,900.00	89.70	359.65	9,803.68	8,852.25	662.38	8,848.04	0.00	0.00	0.00
19,000.00	89.70	359.65	9,804.20	8,952.24	661.77	8,948.03	0.00	0.00	0.00
19,100.00	89.70	359.65	9,804.72	9,052.24	661.15	9,048.03	0.00	0.00	0.00
19,200.00	89.70	359.65	9,805.24	9,152.24	660.54	9,148.03	0.00	0.00	0.00
19,300.00	89.70	359.65	9,805.76	9,252.23	659.93	9,248.03	0.00	0.00	0.00
19,400.00	89.70	359.65	9,806.28	9,352.23	659.32	9,348.03	0.00	0.00	0.00
19,500.00	89.70	359.65	9,806.81	9,452.23	658.70	9,448.03	0.00	0.00	0.00
19,600.00	89.70	359.65	9,807.33	9,552.22	658.09	9,548.03	0.00	0.00	0.00
19,700.00	89.70	359.65	9,807.85	9,652.22	657.48	9,648.03	0.00	0.00	0.00
19,800.00	89.70	359.65	9,808.37	9,752.22	656.87	9,748.02	0.00	0.00	0.00
19,900.00	89.70	359.65	9,808.89	9,852.22	656.25	9,848.02	0.00	0.00	0.00
20,000.00	89.70	359.65	9,809.41	9,952.21	655.64	9,948.02	0.00	0.00	0.00
20,076.24	89.70	359.65	9,809.81	10,028.45	655.18	10,024.26	0.00	0.00	0.00
PBHL									

CIVITAS

MS Directional
Planning Report

MS Directional

Database:	TRG_EDMConroe	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Company:	Civitas Permian Operating, LLC	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Project:	Lea County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site:	Double Stamp Project	**North Reference:**	Grid
Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #0.0		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP - Double Stamp - plan hits target center - Point	0.00	0.00	9,185.00	-480.10	619.78	570,193.90	725,966.78	32.566090	-103.734026
FTP - Double Stamp F - plan misses target center by 94.52usft at 9457.50usft MD (9402.05 TVD, -437.74 N, 625.13 E) - Point	0.00	0.00	9,397.58	-439.53	719.53	570,234.47	726,066.53	32.566200	-103.733701
PBHL - Double Stamp - plan hits target center - Point	0.00	0.00	9,809.81	10,028.45	655.18	580,702.45	726,002.17	32.594973	-103.733718

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,538.59	1,532.70	Rustler			
1,801.20	1,793.00	Salado			
2,976.53	2,958.00	Yates			
3,620.70	3,596.50	Capitan Reef Complex			
4,701.40	4,667.70	DMG			
7,496.09	7,446.20	Brushy Canyon			
7,821.49	7,771.60	Bone Spring			
7,878.99	7,829.10	Upper Avalon			
8,287.19	8,237.30	Middle Avalon			
8,621.49	8,571.60	Lower Avalon			
8,847.89	8,798.00	1st Bone Spring Sand			
9,179.19	9,129.30	2nd Bone Spring Carb			
9,663.17	9,574.50	2nd Bone Spring Sand			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
300.00	300.00	0.00	0.00	KOP, 1.00°/100' Build
700.00	699.68	-13.12	4.77	Begin 1.00°/100' Build & Turn
1,180.03	1,177.29	-47.77	36.04	Hold 7.60° Inc, 126.52° Azm
6,289.59	6,241.93	-450.12	579.30	Begin 1.00°/100' Drop
7,049.89	7,000.00	-480.10	619.78	Begin Vertical Hold
9,234.89	9,185.00	-480.10	619.78	Begin 10.00°/100' Build
10,131.89	9,757.95	85.36	691.22	Hold 89.70° Inc, Begin 2°/100' Turn
10,509.43	9,759.93	461.94	713.75	Hold 359.65° Azm
20,076.24	9,809.81	10,028.45	655.18	PBHL

Civitas Permian Operating, LLC

Lea County, New Mexico (NAD 83)
Double Stamp Project
Double Stamp Fed Com 128H

Wellbore #1
Design #0.0

Anticollision Report

10 January, 2025

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Reference Design #0.0

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 2,000.00usft	**Error Surface:**	Pedal Curve
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Survey Tool Program **Date** 1/10/2025

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	20,076.24	Design #0.0 (Wellbore #1)	MWD+IFR1+SAG+FDIR	OWSG MWD + IFR1 + Sag + FDIR Correction

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Double Stamp - Offsets (NAD 83)						
Belco AIA Federal 2H - Wellbore #1 - Mock Surveys (from	415.66	397.11	1,917.84	1,915.22	731.978	CC
Belco AIA Federal 2H - Wellbore #1 - Mock Surveys (from	700.00	687.69	1,919.03	1,914.38	413.486	ES
Belco AIA Federal 2H - Wellbore #1 - Mock Surveys (from	1,800.00	1,806.32	1,992.88	1,980.26	157.923	SF
Belco AIA Federal 2H - Wellbore #1 - Surveys						Out of range
Belco AIA Federal 3H - Wellbore #1 - Surveys	1,464.30	1,500.00	1,594.05	1,588.95	312.444	CC, ES
Belco AIA Federal 3H - Wellbore #1 - Surveys	4,800.00	4,508.06	1,839.85	1,812.35	66.890	SF
Belco AIA Federal 4H - Wellbore #1 - Surveys	5,106.34	7,045.06	421.07	349.57	5.890	CC, ES, SF
Queenie 15 1H - Wellbore #1 - Surveys						Out of range
Double Stamp E2-1 (113H,116H,123H,124H,126H)						
Double Stamp Fed Com 113H - Wellbore #1 - Design #1	300.00	300.00	132.17	130.21	67.404	CC
Double Stamp Fed Com 113H - Wellbore #1 - Design #1	400.00	399.99	132.62	129.96	49.820	ES
Double Stamp Fed Com 113H - Wellbore #1 - Design #1	8,600.00	8,577.00	478.91	418.35	7.908	SF
Double Stamp Fed Com 116H - Wellbore #1 - Design #1	300.00	300.00	107.73	105.76	54.939	CC
Double Stamp Fed Com 116H - Wellbore #1 - Design #1	400.00	399.99	108.21	105.55	40.650	ES
Double Stamp Fed Com 116H - Wellbore #1 - Design #1	4,200.00	4,240.74	146.58	116.01	4.795	SF
Double Stamp Fed Com 123H - Wellbore #1 - Design #1	300.00	300.00	129.77	127.81	66.183	CC
Double Stamp Fed Com 123H - Wellbore #1 - Design #1	400.00	399.99	130.08	127.41	48.865	ES
Double Stamp Fed Com 123H - Wellbore #1 - Design #1	20,076.24	20,028.07	660.24	468.98	3.452	SF
Double Stamp Fed Com 124H - Wellbore #1 - Design #1	300.00	300.00	24.77	22.81	12.635	CC
Double Stamp Fed Com 124H - Wellbore #1 - Design #1	400.00	399.99	25.09	22.43	9.425	ES
Double Stamp Fed Com 124H - Wellbore #1 - Design #1	20,076.24	20,145.93	331.58	140.99	1.740	Level 3, SF
Double Stamp Fed Com 126H - Wellbore #1 - Design #1	1,947.16	1,966.27	45.13	31.31	3.266	CC, ES
Double Stamp Fed Com 126H - Wellbore #1 - Design #1	2,000.00	2,018.38	45.97	31.69	3.220	SF

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Double Stamp W2-1 (111H,115H,121H,125H)						
Double Stamp Fed Com 111H - Wellbore #1 - Design #1	300.00	298.00	1,319.35	1,317.40	675.320	CC
Double Stamp Fed Com 111H - Wellbore #1 - Design #1	400.00	397.99	1,319.67	1,317.01	497.093	ES
Double Stamp Fed Com 111H - Wellbore #1 - Design #1	3,200.00	2,739.98	1,987.66	1,967.18	97.055	SF
Double Stamp Fed Com 115H - Wellbore #1 - Design #1	300.00	298.00	1,294.36	1,292.40	662.526	CC
Double Stamp Fed Com 115H - Wellbore #1 - Design #1	400.00	397.99	1,294.67	1,292.02	487.677	ES
Double Stamp Fed Com 115H - Wellbore #1 - Design #1	8,900.00	8,772.58	1,887.80	1,826.01	30.552	SF
Double Stamp Fed Com 121H - Wellbore #1 - Design #1	300.00	298.00	1,319.11	1,317.16	675.198	CC
Double Stamp Fed Com 121H - Wellbore #1 - Design #1	400.00	397.99	1,319.41	1,316.76	496.998	ES
Double Stamp Fed Com 121H - Wellbore #1 - Design #1	20,076.24	20,032.45	1,640.72	1,449.58	8.584	SF
Double Stamp Fed Com 125H - Wellbore #1 - Design #1	300.00	298.00	1,294.11	1,292.16	662.402	CC
Double Stamp Fed Com 125H - Wellbore #1 - Design #1	400.00	397.99	1,294.41	1,291.76	487.581	ES
Double Stamp Fed Com 125H - Wellbore #1 - Design #1	4,500.00	4,284.80	1,981.99	1,950.94	63.836	SF

Offset Design: Double Stamp - Offsets (NAD 83) - Belco AIA Federal 2H - Wellbore #1 - Mock Surveys (from Surface)

Offset Site Error: 0.00 usft

Survey Program: 0-MWD

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	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	-96.662	-222.56	-1,905.52	1,918.67				
100.00	100.00	74.17	74.17	0.26	0.13	-96.662	-222.55	-1,905.49	1,918.44	1,918.05	0.40	4,838.670	
200.00	200.00	176.48	176.48	0.62	0.45	-96.661	-222.51	-1,905.34	1,918.29	1,917.22	1.08	1,783.847	
300.00	300.00	278.79	278.79	0.98	0.82	-96.659	-222.43	-1,905.08	1,918.03	1,916.23	1.80	1,065.225	
400.00	399.99	381.09	381.09	1.32	1.19	-96.632	-222.31	-1,904.69	1,917.84	1,915.33	2.51	764.110	
415.66	415.65	397.11	397.11	1.38	1.24	-96.623	-222.29	-1,904.62	1,917.84	1,915.22	2.62	731.978	CC
500.00	499.96	483.36	483.36	1.66	1.55	-96.553	-222.16	-1,904.18	1,917.94	1,914.73	3.21	596.867	
600.00	599.86	585.57	585.57	2.01	1.92	-96.423	-221.98	-1,903.56	1,918.33	1,914.41	3.92	488.777	
700.00	699.68	687.69	687.68	2.36	2.29	-96.242	-221.76	-1,902.81	1,919.03	1,914.38	4.64	413.486	ES
800.00	799.40	789.72	789.70	2.71	2.65	-96.028	-221.50	-1,901.95	1,920.67	1,915.31	5.36	358.250	
900.00	899.03	891.67	891.65	3.07	3.02	-95.801	-221.21	-1,900.97	1,923.91	1,917.83	6.08	316.204	
1,000.00	998.54	993.52	993.50	3.43	3.38	-95.560	-220.89	-1,899.87	1,928.75	1,921.94	6.81	283.262	
1,100.00	1,097.90	1,095.25	1,095.22	3.79	3.75	-95.307	-220.53	-1,898.65	1,935.18	1,927.65	7.53	256.843	
1,200.00	1,197.08	1,196.84	1,196.80	4.15	4.11	-95.043	-220.13	-1,897.32	1,943.19	1,934.93	8.26	235.233	
1,300.00	1,296.21	1,298.38	1,298.33	4.52	4.48	-94.776	-219.70	-1,895.87	1,951.67	1,942.68	8.99	217.205	
1,400.00	1,395.33	1,399.93	1,399.87	4.89	4.84	-94.511	-219.24	-1,894.30	1,960.06	1,950.35	9.71	201.840	
1,500.00	1,494.45	1,501.51	1,501.43	5.25	5.21	-94.248	-218.74	-1,892.62	1,968.38	1,957.95	10.44	188.592	
1,600.00	1,593.57	1,603.10	1,603.00	5.62	5.57	-93.986	-218.20	-1,890.81	1,976.63	1,965.46	11.16	177.051	
1,700.00	1,692.69	1,704.70	1,704.58	5.99	5.94	-93.725	-217.64	-1,888.89	1,984.79	1,972.90	11.89	166.908	
1,800.00	1,791.81	1,806.32	1,806.18	6.36	6.30	-93.466	-217.03	-1,886.85	1,992.88	1,980.26	12.62	157.923	SF

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

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp - Offsets (NAD 83) - Belco AIA Federal 3H - Wellbore #1 - Surveys

Offset Site Error: 0.00 usft

Survey Program: 1572-MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
300.00	300.00	1,500.00	1,499.91	0.98	0.00	20.016	1,453.44	529.47	1,976.55	1,974.91	1.64	1,208.061	
400.00	399.99	1,500.00	1,499.91	1.32	0.00	19.995	1,453.44	529.47	1,916.44	1,914.70	1.74	1,103.475	
500.00	499.96	1,500.00	1,499.91	1.66	0.00	19.933	1,453.44	529.47	1,860.90	1,859.02	1.88	988.898	
600.00	599.86	1,500.00	1,499.91	2.01	0.00	19.830	1,453.44	529.47	1,810.36	1,808.28	2.09	867.871	
700.00	699.68	1,500.00	1,499.91	2.36	0.00	19.686	1,453.44	529.47	1,765.28	1,762.94	2.34	753.715	
800.00	799.40	1,500.00	1,499.91	2.71	0.00	19.491	1,453.44	529.47	1,725.33	1,722.68	2.65	651.989	
900.00	899.03	1,500.00	1,499.91	3.07	0.00	19.235	1,453.44	529.47	1,690.11	1,687.12	2.99	566.172	
1,000.00	998.54	1,500.00	1,499.91	3.43	0.00	18.918	1,453.44	529.47	1,659.92	1,656.58	3.34	496.302	
1,100.00	1,097.90	1,500.00	1,499.91	3.79	0.00	18.540	1,453.44	529.47	1,635.07	1,631.35	3.72	439.752	
1,200.00	1,197.08	1,500.00	1,499.91	4.15	0.00	18.104	1,453.44	529.47	1,615.81	1,611.71	4.10	394.114	
1,300.00	1,296.21	1,500.00	1,499.91	4.52	0.00	17.651	1,453.44	529.47	1,602.49	1,598.01	4.48	357.444	
1,400.00	1,395.33	1,500.00	1,499.91	4.89	0.00	17.199	1,453.44	529.47	1,595.34	1,590.48	4.86	328.084	
1,464.30	1,459.06	1,500.00	1,499.91	5.12	0.00	16.911	1,453.44	529.47	1,594.05	1,588.95	5.10	312.444	CC, ES
1,500.00	1,494.45	1,500.00	1,499.91	5.25	0.00	16.751	1,453.44	529.47	1,594.45	1,589.22	5.23	304.727	
1,600.00	1,593.57	1,545.91	1,545.81	5.62	0.09	16.318	1,453.82	529.98	1,599.16	1,593.49	5.68	281.722	
1,700.00	1,692.69	1,636.87	1,636.77	5.99	0.36	15.911	1,454.62	531.26	1,605.02	1,598.70	6.32	253.959	
1,800.00	1,791.81	1,736.54	1,736.41	6.36	0.72	15.488	1,456.05	532.18	1,611.34	1,604.30	7.04	228.842	
1,900.00	1,890.93	1,832.13	1,831.99	6.73	1.06	15.066	1,457.44	533.03	1,617.75	1,610.01	7.75	208.784	
2,000.00	1,990.05	1,932.00	1,931.84	7.10	1.42	14.672	1,458.79	534.57	1,624.32	1,615.85	8.47	191.716	
2,100.00	2,089.17	2,025.00	2,024.82	7.47	1.75	14.292	1,460.01	536.41	1,631.04	1,621.87	9.17	177.845	
2,200.00	2,188.29	2,116.95	2,116.73	7.84	2.09	13.922	1,461.72	538.56	1,638.43	1,628.57	9.87	166.067	
2,300.00	2,287.41	2,217.65	2,217.38	8.21	2.45	13.565	1,463.53	541.04	1,645.86	1,635.27	10.59	155.347	
2,400.00	2,386.53	2,306.90	2,306.57	8.58	2.77	13.221	1,465.32	543.78	1,653.71	1,642.43	11.28	146.610	
2,500.00	2,485.66	2,398.98	2,398.58	8.95	3.11	12.875	1,467.81	546.55	1,662.24	1,650.27	11.98	138.807	
2,600.00	2,584.78	2,478.78	2,478.29	9.33	3.40	12.529	1,470.26	549.20	1,671.33	1,658.71	12.62	132.416	
2,700.00	2,683.90	2,572.41	2,571.75	9.70	3.74	12.231	1,473.96	553.45	1,681.52	1,668.20	13.32	126.197	
2,800.00	2,783.02	2,720.02	2,719.18	10.07	4.28	11.963	1,478.50	558.70	1,690.88	1,676.64	14.24	118.723	
2,900.00	2,882.14	2,831.92	2,831.06	10.44	4.68	11.598	1,479.87	560.23	1,697.86	1,682.85	15.01	113.095	
3,000.00	2,981.26	2,941.98	2,941.09	10.81	5.07	11.270	1,480.54	562.67	1,704.52	1,688.75	15.78	108.051	
3,100.00	3,080.38	3,046.61	3,045.71	11.19	5.44	10.920	1,480.45	564.20	1,710.39	1,693.87	16.51	103.577	
3,200.00	3,179.50	3,146.78	3,145.87	11.56	5.79	10.553	1,480.59	565.18	1,716.46	1,699.23	17.23	99.598	
3,300.00	3,278.62	3,251.45	3,250.54	11.93	6.16	10.168	1,480.52	565.48	1,722.27	1,704.31	17.97	95.857	
3,400.00	3,377.74	3,334.69	3,333.78	12.30	6.45	9.788	1,480.38	565.85	1,728.17	1,709.55	18.62	92.818	
3,500.00	3,476.86	3,439.39	3,438.47	12.67	6.82	9.413	1,480.94	566.41	1,734.77	1,715.41	19.36	89.605	
3,600.00	3,575.98	3,541.58	3,540.67	13.05	7.19	9.045	1,481.18	567.06	1,741.17	1,721.08	20.09	86.662	
3,700.00	3,675.11	3,633.62	3,632.70	13.42	7.51	8.684	1,481.50	567.87	1,747.78	1,727.00	20.78	84.094	
3,800.00	3,774.23	3,725.26	3,724.33	13.79	7.84	8.328	1,482.20	568.77	1,754.89	1,733.42	21.47	81.721	
3,900.00	3,873.35	3,819.40	3,818.47	14.16	8.18	7.966	1,483.27	569.44	1,762.40	1,740.23	22.17	79.488	
4,000.00	3,972.47	3,914.77	3,913.82	14.54	8.51	7.586	1,484.83	569.54	1,770.37	1,747.50	22.87	77.415	
4,100.00	4,071.59	4,054.73	4,053.77	14.91	8.98	7.167	1,484.99	568.15	1,776.62	1,752.91	23.71	74.922	
4,200.00	4,170.71	4,153.37	4,152.40	15.28	9.30	6.754	1,484.46	566.75	1,782.44	1,758.04	24.40	73.052	
4,300.00	4,269.83	4,251.85	4,250.87	15.65	9.62	6.345	1,483.96	565.40	1,788.40	1,763.31	25.09	71.284	
4,400.00	4,368.95	4,351.12	4,350.14	16.03	9.95	5.946	1,483.43	564.29	1,794.45	1,768.67	25.78	69.603	
4,500.00	4,468.07	4,434.00	4,433.01	16.40	10.23	5.559	1,483.10	563.47	1,800.77	1,774.36	26.42	68.170	
4,600.00	4,567.19	4,465.00	4,464.00	16.77	10.34	5.192	1,483.73	563.29	1,809.68	1,782.84	26.84	67.418	
4,700.00	4,666.31	4,496.00	4,494.92	17.14	10.45	4.831	1,485.91	563.34	1,822.77	1,795.53	27.24	66.915	
4,800.00	4,765.44	4,508.06	4,506.90	17.52	10.49	4.477	1,487.27	563.42	1,839.85	1,812.35	27.51	66.890	SF
4,900.00	4,864.56	4,527.00	4,525.65	17.89	10.56	4.124	1,489.94	563.54	1,861.12	1,833.35	27.76	67.034	
5,000.00	4,963.68	4,558.00	4,556.07	18.26	10.67	3.762	1,495.84	563.47	1,886.47	1,858.42	28.06	67.235	
5,100.00	5,062.80	4,558.00	4,556.07	18.64	10.67	3.419	1,495.84	563.47	1,915.73	1,887.61	28.12	68.131	
5,200.00	5,161.92	4,589.00	4,586.05	19.01	10.79	3.046	1,503.72	562.87	1,948.56	1,920.21	28.35	68.732	

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

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp - Offsets (NAD 83) - Belco AIA Federal 3H - Wellbore #1 - Surveys

Offset Site Error: 0.00 usft
Survey Program: 1572-MWD
Offset Well Error: 0.00 usft
Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,300.00	5,261.04	4,603.77	4,600.11	19.38	10.84	2.687	1,508.18	562.35	1,985.21	1,956.77	28.44	69.802	

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp - Offsets (NAD 83) - Belco AIA Federal 4H - Wellbore #1 - Surveys

Offset Site Error: 0.00 usft

Survey Program: 100-GYRO-NS, 1256-MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-97.168	-220.64	-1,754.49	1,768.55				
100.00	100.00	64.17	64.17	0.26	0.08	-97.164	-220.54	-1,754.62	1,768.43	1,768.09	0.34	5,159.939	
200.00	200.00	160.78	160.78	0.62	0.34	-97.148	-220.10	-1,755.18	1,768.95	1,767.99	0.96	1,845.422	
300.00	300.00	261.02	261.01	0.98	0.69	-97.131	-219.67	-1,755.78	1,769.49	1,767.82	1.67	1,060.891	
400.00	399.99	360.39	360.38	1.32	1.04	-97.089	-219.28	-1,756.37	1,770.23	1,767.87	2.36	750.628	
500.00	499.96	460.80	460.79	1.66	1.39	-96.993	-218.94	-1,757.00	1,771.39	1,768.35	3.05	581.408	
600.00	599.86	561.69	561.68	2.01	1.74	-96.846	-218.72	-1,757.54	1,772.89	1,769.15	3.75	473.393	
700.00	699.68	662.10	662.09	2.36	2.09	-96.648	-218.57	-1,758.04	1,774.76	1,770.32	4.45	399.089	
800.00	799.40	760.88	760.86	2.71	2.44	-96.413	-218.36	-1,758.53	1,777.69	1,772.54	5.15	345.344	
900.00	899.03	857.65	857.63	3.07	2.78	-96.163	-218.13	-1,759.11	1,782.44	1,776.60	5.84	304.975	
1,000.00	998.54	955.96	955.94	3.43	3.12	-95.902	-217.98	-1,759.85	1,789.05	1,782.50	6.55	273.191	
1,100.00	1,097.90	1,056.50	1,056.48	3.79	3.48	-95.635	-218.02	-1,760.56	1,797.36	1,790.10	7.26	247.505	
1,200.00	1,197.08	1,165.28	1,165.26	4.15	3.86	-95.353	-217.94	-1,761.09	1,807.14	1,799.13	8.00	225.794	
1,300.00	1,296.21	1,276.24	1,276.22	4.52	4.11	-95.076	-217.96	-1,760.86	1,816.80	1,808.18	8.62	210.805	
1,400.00	1,395.33	1,387.91	1,387.88	4.89	4.14	-94.800	-217.86	-1,759.92	1,825.88	1,816.87	9.01	202.577	
1,500.00	1,494.45	1,486.52	1,486.48	5.25	4.20	-94.525	-217.69	-1,758.72	1,834.62	1,825.19	9.44	194.426	
1,600.00	1,593.57	1,596.56	1,596.51	5.62	4.31	-94.251	-217.44	-1,757.07	1,843.12	1,833.22	9.90	186.187	
1,700.00	1,692.69	1,705.01	1,704.94	5.99	4.44	-93.975	-217.02	-1,755.02	1,851.27	1,840.87	10.39	178.115	
1,800.00	1,791.81	1,799.15	1,799.05	6.36	4.57	-93.696	-216.40	-1,752.96	1,859.15	1,848.25	10.89	170.642	
1,900.00	1,890.93	1,895.35	1,895.24	6.73	4.74	-93.421	-215.88	-1,751.28	1,867.50	1,856.08	11.42	163.528	
2,000.00	1,990.05	1,989.59	1,989.47	7.10	4.91	-93.138	-215.01	-1,749.72	1,875.97	1,864.01	11.96	156.855	
2,100.00	2,089.17	2,084.29	2,084.15	7.47	5.11	-92.863	-214.34	-1,748.41	1,884.78	1,872.26	12.52	150.582	
2,200.00	2,188.29	2,188.34	2,188.19	7.84	5.34	-92.612	-214.38	-1,747.04	1,893.72	1,880.61	13.11	144.448	
2,300.00	2,287.41	2,311.11	2,310.93	8.21	5.62	-92.392	-215.29	-1,744.16	1,901.67	1,887.91	13.77	138.145	
2,400.00	2,386.53	2,397.08	2,396.87	8.58	5.84	-92.160	-215.77	-1,741.99	1,909.51	1,895.17	14.34	133.132	
2,500.00	2,485.66	2,469.00	2,468.78	8.95	6.02	-91.911	-215.67	-1,741.06	1,918.55	1,903.66	14.89	128.878	
2,600.00	2,584.78	2,551.72	2,551.49	9.33	6.24	-91.645	-214.95	-1,740.98	1,928.79	1,913.33	15.46	124.769	
2,700.00	2,683.90	2,653.05	2,652.81	9.70	6.50	-91.359	-213.46	-1,741.41	1,939.61	1,923.52	16.09	120.569	
2,800.00	2,783.02	2,759.40	2,759.16	10.07	6.79	-91.099	-212.75	-1,741.39	1,950.03	1,933.29	16.74	116.459	
2,900.00	2,882.14	2,869.91	2,869.66	10.44	7.11	-90.866	-212.82	-1,740.64	1,959.85	1,942.42	17.43	112.455	
3,000.00	2,981.26	2,970.24	2,969.99	10.81	7.40	-90.640	-213.07	-1,739.79	1,969.54	1,951.45	18.09	108.902	
3,100.00	3,080.38	3,065.94	3,065.69	11.19	7.69	-90.409	-213.10	-1,738.94	1,979.22	1,960.48	18.73	105.645	
3,200.00	3,179.50	6,890.98	5,074.11	11.56	49.75	1.100	43.73	255.62	1,940.36	1,917.77	22.59	85.882	
3,300.00	3,278.62	6,895.32	5,074.05	11.93	49.85	-0.330	44.13	259.95	1,843.20	1,820.17	23.02	80.063	
3,400.00	3,377.74	6,904.00	5,073.96	12.30	50.05	-0.746	44.95	268.59	1,746.34	1,722.81	23.53	74.216	
3,500.00	3,476.86	6,904.00	5,073.96	12.67	50.05	-2.935	44.95	268.59	1,649.81	1,625.75	24.05	68.586	
3,600.00	3,575.98	6,904.00	5,073.96	13.05	50.05	-4.993	44.95	268.59	1,553.72	1,529.06	24.66	63.006	
3,700.00	3,675.11	6,913.00	5,073.92	13.42	50.26	-5.171	45.82	277.54	1,458.10	1,432.68	25.42	57.363	
3,800.00	3,774.23	6,917.73	5,073.92	13.79	50.37	-6.148	46.28	282.25	1,363.09	1,336.81	26.28	51.873	
3,900.00	3,873.35	6,922.81	5,073.94	14.16	50.49	-7.003	46.78	287.31	1,268.81	1,241.52	27.29	46.486	
4,000.00	3,972.47	6,928.30	5,073.99	14.54	50.62	-7.738	47.32	292.77	1,175.43	1,146.92	28.51	41.227	
4,100.00	4,071.59	6,936.00	5,074.09	14.91	50.80	-8.048	48.09	300.43	1,083.18	1,053.19	29.99	36.115	
4,200.00	4,170.71	6,941.11	5,074.17	15.28	50.92	-8.781	48.60	305.51	992.35	960.57	31.78	31.227	
4,300.00	4,269.83	6,948.00	5,074.31	15.65	51.08	-9.180	49.33	312.36	903.38	869.39	33.99	26.580	
4,400.00	4,368.95	6,959.17	5,074.54	16.03	51.34	-8.872	50.55	323.47	816.82	780.07	36.75	22.224	
4,500.00	4,468.07	6,969.75	5,074.77	16.40	51.59	-8.672	51.74	333.98	733.52	693.34	40.18	18.254	
4,600.00	4,567.19	6,979.00	5,074.98	16.77	51.81	-8.685	52.79	343.16	654.72	610.31	44.41	14.742	
4,700.00	4,666.31	6,990.33	5,075.26	17.14	52.07	-8.386	54.09	354.42	582.26	532.68	49.58	11.745	
4,800.00	4,765.44	7,001.40	5,075.61	17.52	52.33	-8.140	55.33	365.41	518.78	463.19	55.59	9.332	
4,900.00	4,864.56	7,013.93	5,076.08	17.89	52.63	-7.696	56.72	377.85	467.89	405.87	62.03	7.543	
5,000.00	4,963.68	7,028.42	5,076.70	18.26	52.97	-6.999	58.29	392.24	433.99	366.18	67.81	6.400	

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

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp - Offsets (NAD 83) - Belco AIA Federal 4H - Wellbore #1 - Surveys

Offset Site Error: 0.00 usft

Survey Program: 100-GYRO-NS, 1256-MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,062.80	7,044.03	5,077.45	18.64	53.34	-6.178	59.91	407.75	421.11	349.74	71.37	5.900	
5,106.34	5,069.08	7,045.06	5,077.50	18.66	53.36	-6.121	60.02	408.78	421.07	349.57	71.49	5.890	CC, ES, SF
5,200.00	5,161.92	7,058.39	5,078.19	19.01	53.67	-5.559	61.38	422.02	431.14	359.49	71.65	6.017	
5,300.00	5,261.04	7,072.29	5,078.90	19.38	54.00	-5.027	62.83	435.82	462.61	393.57	69.04	6.701	
5,400.00	5,360.16	7,086.24	5,079.62	19.75	54.33	-4.508	64.31	449.68	511.59	446.70	64.89	7.884	
5,500.00	5,459.28	7,099.88	5,080.28	20.13	54.65	-4.051	65.77	463.22	573.62	513.20	60.42	9.494	
5,600.00	5,558.40	7,113.19	5,080.88	20.50	54.96	-3.651	67.18	476.44	644.95	588.67	56.28	11.459	
5,700.00	5,657.52	7,125.71	5,081.35	20.87	55.26	-3.361	68.44	488.89	722.86	670.14	52.72	13.711	
5,800.00	5,756.64	7,136.83	5,081.68	21.25	55.52	-3.247	69.48	499.96	805.47	755.73	49.74	16.195	
5,900.00	5,855.76	7,146.56	5,081.90	21.62	55.75	-3.299	70.34	509.65	891.50	844.23	47.27	18.858	
6,000.00	5,954.89	7,155.47	5,082.06	21.99	55.96	-3.443	71.13	518.52	980.07	934.81	45.26	21.654	
6,100.00	6,054.01	7,163.87	5,082.19	22.36	56.16	-3.640	71.86	526.89	1,070.57	1,026.95	43.62	24.543	
6,200.00	6,153.13	7,172.00	5,082.28	22.74	56.35	-3.860	72.58	534.98	1,162.54	1,120.26	42.29	27.493	
6,300.00	6,252.25	7,190.40	5,082.51	23.11	56.79	-2.953	74.17	553.32	1,255.63	1,214.28	41.35	30.369	
6,400.00	6,351.50	7,209.93	5,082.87	23.48	57.25	-1.868	75.78	572.78	1,349.40	1,308.81	40.60	33.240	
6,500.00	6,450.95	7,214.32	5,082.94	23.85	57.35	-2.272	76.16	577.15	1,443.71	1,403.94	39.77	36.300	
6,600.00	6,550.57	7,220.88	5,083.06	24.21	57.51	-2.297	76.72	583.68	1,538.45	1,499.36	39.09	39.352	
6,700.00	6,650.33	7,226.31	5,083.15	24.57	57.64	-2.297	77.19	589.09	1,633.55	1,595.04	38.50	42.427	
6,800.00	6,750.19	7,230.65	5,083.22	24.93	57.74	-2.271	77.57	593.41	1,728.92	1,690.94	37.98	45.519	
6,900.00	6,850.13	7,235.00	5,083.29	25.29	57.84	-2.104	77.95	597.75	1,824.52	1,786.98	37.54	48.605	
7,000.00	6,950.11	7,235.00	5,083.29	25.64	57.84	-2.244	77.95	597.75	1,920.29	1,883.18	37.11	51.751	

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

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 113H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-79.077	25.04	-129.77	132.17				
100.00	100.00	100.00	100.00	0.26	0.26	-79.077	25.04	-129.77	132.17	131.64	0.53	250.816	
200.00	200.00	200.00	200.00	0.62	0.62	-79.077	25.04	-129.77	132.17	130.92	1.24	106.254	
300.00	300.00	300.00	300.00	0.98	0.98	-79.077	25.04	-129.77	132.17	130.21	1.96	67.404	CC
400.00	399.99	399.99	399.99	1.32	1.34	-78.754	25.04	-129.77	132.62	129.96	2.66	49.820	ES
500.00	499.96	499.96	499.96	1.66	1.70	-77.797	25.04	-129.77	134.00	130.64	3.36	39.910	
600.00	599.86	599.86	599.86	2.01	2.06	-76.246	25.04	-129.77	136.37	132.31	4.06	33.582	
700.00	699.68	699.68	699.68	2.36	2.41	-74.166	25.04	-129.77	139.85	135.09	4.77	29.327	
800.00	799.40	799.40	799.40	2.71	2.77	-71.969	25.04	-129.77	144.91	139.43	5.48	26.442	
900.00	899.03	899.03	899.03	3.07	3.13	-70.048	25.04	-129.77	151.88	145.68	6.19	24.522	
1,000.00	998.54	998.54	998.54	3.43	3.48	-68.432	25.04	-129.77	160.70	153.79	6.91	23.266	
1,100.00	1,097.90	1,097.90	1,097.90	3.79	3.84	-67.125	25.04	-129.77	171.32	163.71	7.62	22.484	
1,200.00	1,197.08	1,197.08	1,197.08	4.15	4.20	-66.109	25.04	-129.77	183.67	175.34	8.33	22.043	
1,300.00	1,296.21	1,298.90	1,298.89	4.52	4.54	-65.417	24.29	-129.37	195.94	186.91	9.03	21.688	
1,400.00	1,395.33	1,401.17	1,401.12	4.89	4.88	-65.108	21.93	-128.11	206.82	197.10	9.73	21.267	
1,500.00	1,494.45	1,503.74	1,503.60	5.25	5.22	-65.122	17.94	-125.98	216.29	205.87	10.42	20.755	
1,600.00	1,593.57	1,606.57	1,606.23	5.62	5.57	-65.420	12.32	-122.99	224.33	213.21	11.12	20.172	
1,700.00	1,692.69	1,709.57	1,708.90	5.99	5.92	-65.980	5.07	-119.11	230.96	219.13	11.82	19.532	
1,800.00	1,791.81	1,812.69	1,811.53	6.36	6.27	-66.790	-3.83	-114.37	236.19	223.66	12.53	18.850	
1,900.00	1,890.93	1,913.28	1,911.50	6.73	6.62	-67.721	-13.62	-109.14	240.50	227.26	13.24	18.171	
2,000.00	1,990.05	2,013.12	2,010.72	7.10	6.96	-68.613	-23.38	-103.93	244.83	230.88	13.94	17.560	
2,100.00	2,089.17	2,112.95	2,109.94	7.47	7.31	-69.475	-33.14	-98.73	249.21	234.56	14.65	17.009	
2,200.00	2,188.29	2,212.79	2,209.16	7.84	7.66	-70.306	-42.90	-93.52	253.65	238.29	15.36	16.510	
2,300.00	2,287.41	2,312.62	2,308.38	8.21	8.02	-71.108	-52.65	-88.31	258.14	242.06	16.08	16.056	
2,400.00	2,386.53	2,412.46	2,407.60	8.58	8.37	-71.882	-62.41	-83.10	262.68	245.89	16.79	15.643	
2,500.00	2,485.66	2,512.29	2,506.82	8.95	8.73	-72.630	-72.17	-77.89	267.26	249.76	17.51	15.264	
2,600.00	2,584.78	2,612.13	2,606.04	9.33	9.08	-73.352	-81.93	-72.69	271.89	253.67	18.23	14.916	
2,700.00	2,683.90	2,711.96	2,705.26	9.70	9.44	-74.050	-91.69	-67.48	276.57	257.62	18.95	14.596	
2,800.00	2,783.02	2,811.80	2,804.49	10.07	9.80	-74.725	-101.45	-62.27	281.28	261.61	19.67	14.301	
2,900.00	2,882.14	2,911.63	2,903.71	10.44	10.16	-75.377	-111.21	-57.06	286.03	265.64	20.39	14.027	
3,000.00	2,981.26	3,011.47	3,002.93	10.81	10.52	-76.008	-120.96	-51.86	290.81	269.70	21.11	13.774	
3,100.00	3,080.38	3,111.30	3,102.15	11.19	10.88	-76.618	-130.72	-46.65	295.63	273.79	21.84	13.538	
3,200.00	3,179.50	3,211.14	3,201.37	11.56	11.24	-77.209	-140.48	-41.44	300.48	277.92	22.56	13.318	
3,300.00	3,278.62	3,310.97	3,300.59	11.93	11.60	-77.780	-150.24	-36.23	305.36	282.08	23.29	13.112	
3,400.00	3,377.74	3,410.81	3,399.81	12.30	11.96	-78.334	-160.00	-31.02	310.28	286.26	24.02	12.920	
3,500.00	3,476.86	3,510.64	3,499.03	12.67	12.33	-78.870	-169.76	-25.82	315.22	290.47	24.74	12.740	
3,600.00	3,575.98	3,610.48	3,598.25	13.05	12.69	-79.389	-179.52	-20.61	320.18	294.71	25.47	12.571	
3,700.00	3,675.11	3,710.31	3,697.47	13.42	13.05	-79.893	-189.28	-15.40	325.17	298.98	26.20	12.412	
3,800.00	3,774.23	3,810.15	3,796.69	13.79	13.42	-80.381	-199.03	-10.19	330.19	303.26	26.93	12.262	
3,900.00	3,873.35	3,909.98	3,895.91	14.16	13.78	-80.854	-208.79	-4.99	335.23	307.57	27.66	12.121	
4,000.00	3,972.47	4,009.82	3,995.13	14.54	14.14	-81.314	-218.55	0.22	340.29	311.91	28.39	11.988	
4,100.00	4,071.59	4,109.65	4,094.35	14.91	14.51	-81.760	-228.31	5.43	345.38	316.26	29.12	11.861	
4,200.00	4,170.71	4,209.49	4,193.57	15.28	14.87	-82.193	-238.07	10.64	350.48	320.63	29.85	11.742	
4,300.00	4,269.83	4,309.32	4,292.79	15.65	15.24	-82.613	-247.83	15.84	355.61	325.03	30.58	11.629	
4,400.00	4,368.95	4,409.16	4,392.01	16.03	15.60	-83.021	-257.59	21.05	360.75	329.44	31.31	11.521	
4,500.00	4,468.07	4,508.99	4,491.23	16.40	15.97	-83.418	-267.34	26.26	365.91	333.86	32.04	11.419	
4,600.00	4,567.19	4,608.83	4,590.45	16.77	16.33	-83.804	-277.10	31.47	371.09	338.31	32.78	11.322	
4,700.00	4,666.31	4,708.66	4,689.67	17.14	16.70	-84.179	-286.86	36.68	376.28	342.77	33.51	11.229	
4,800.00	4,765.44	4,808.50	4,788.89	17.52	17.07	-84.544	-296.62	41.88	381.49	347.25	34.24	11.141	
4,900.00	4,864.56	4,908.33	4,888.11	17.89	17.43	-84.899	-306.38	47.09	386.71	351.74	34.98	11.057	
5,000.00	4,963.68	5,008.17	4,987.33	18.26	17.80	-85.244	-316.14	52.30	391.95	356.24	35.71	10.976	

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

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 113H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,062.80	5,108.00	5,086.55	18.64	18.16	-85.581	-325.90	57.51	397.20	360.76	36.44	10.899	
5,200.00	5,161.92	5,207.84	5,185.77	19.01	18.53	-85.908	-335.65	62.71	402.47	365.29	37.18	10.826	
5,300.00	5,261.04	5,307.67	5,284.99	19.38	18.90	-86.227	-345.41	67.92	407.75	369.84	37.91	10.755	
5,400.00	5,360.16	5,407.51	5,384.21	19.75	19.26	-86.538	-355.17	73.13	413.04	374.40	38.65	10.688	
5,500.00	5,459.28	5,507.34	5,483.43	20.13	19.63	-86.841	-364.93	78.34	418.35	378.96	39.38	10.623	
5,600.00	5,558.40	5,607.18	5,582.65	20.50	20.00	-87.136	-374.69	83.55	423.66	383.55	40.12	10.561	
5,700.00	5,657.52	5,707.01	5,681.87	20.87	20.37	-87.424	-384.45	88.75	428.99	388.14	40.85	10.501	
5,800.00	5,756.64	5,806.85	5,781.09	21.25	20.73	-87.705	-394.21	93.96	434.32	392.74	41.59	10.444	
5,900.00	5,855.76	5,906.68	5,880.31	21.62	21.10	-87.979	-403.97	99.17	439.67	397.35	42.32	10.389	
6,000.00	5,954.89	6,006.52	5,979.53	21.99	21.47	-88.247	-413.72	104.38	445.03	401.97	43.06	10.336	
6,100.00	6,054.01	6,106.35	6,078.75	22.36	21.83	-88.508	-423.48	109.58	450.39	406.60	43.79	10.284	
6,200.00	6,153.13	6,206.19	6,177.97	22.74	22.20	-88.763	-433.24	114.79	455.77	411.24	44.53	10.235	
6,300.00	6,252.25	6,306.02	6,277.20	23.11	22.57	-89.012	-443.00	120.00	461.15	415.88	45.27	10.188	
6,400.00	6,351.50	6,405.46	6,376.02	23.48	22.93	-89.325	-452.71	125.18	465.69	419.69	46.00	10.124	
6,500.00	6,450.95	6,500.00	6,470.08	23.85	23.28	-89.597	-461.11	129.66	469.33	422.62	46.71	10.049	
6,600.00	6,550.57	6,597.75	6,567.48	24.21	23.64	-89.849	-468.35	133.53	472.37	424.95	47.42	9.961	
6,700.00	6,650.33	6,693.94	6,663.46	24.57	23.99	-90.036	-474.05	136.57	474.81	426.69	48.12	9.867	
6,800.00	6,750.19	6,790.17	6,759.56	24.93	24.33	-90.176	-478.32	138.85	476.65	427.83	48.82	9.764	
6,900.00	6,850.13	6,886.41	6,855.74	25.29	24.68	-90.268	-481.17	140.37	477.87	428.37	49.50	9.653	
7,000.00	6,950.11	6,982.66	6,951.98	25.64	25.02	-90.314	-482.60	141.13	478.49	428.30	50.18	9.535	
7,100.00	7,050.11	7,080.79	7,050.11	25.97	25.35	-90.320	-482.78	141.23	478.56	427.73	50.83	9.415	
7,200.00	7,150.11	7,180.79	7,150.11	26.29	25.67	-90.320	-482.78	141.23	478.56	427.08	51.48	9.296	
7,300.00	7,250.11	7,280.79	7,250.11	26.61	26.00	-90.320	-482.78	141.23	478.56	426.43	52.13	9.180	
7,400.00	7,350.11	7,380.79	7,350.11	26.93	26.33	-90.320	-482.78	141.23	478.56	425.78	52.79	9.066	
7,500.00	7,450.11	7,480.79	7,450.11	27.26	26.66	-90.320	-482.78	141.23	478.56	425.12	53.44	8.955	
7,600.00	7,550.11	7,580.79	7,550.11	27.58	26.99	-90.320	-482.78	141.23	478.56	424.46	54.10	8.846	
7,700.00	7,650.11	7,680.79	7,650.11	27.91	27.32	-90.320	-482.78	141.23	478.56	423.81	54.76	8.740	
7,800.00	7,750.11	7,780.79	7,750.11	28.23	27.65	-90.320	-482.78	141.23	478.56	423.15	55.42	8.636	
7,900.00	7,850.11	7,880.79	7,850.11	28.56	27.98	-90.320	-482.78	141.23	478.56	422.49	56.08	8.534	
8,000.00	7,950.11	7,980.79	7,950.11	28.89	28.32	-90.320	-482.78	141.23	478.56	421.82	56.74	8.435	
8,100.00	8,050.11	8,080.79	8,050.11	29.22	28.65	-90.320	-482.78	141.23	478.56	421.16	57.40	8.337	
8,200.00	8,150.11	8,180.79	8,150.11	29.55	28.98	-90.320	-482.78	141.23	478.56	420.50	58.07	8.242	
8,300.00	8,250.11	8,280.79	8,250.11	29.88	29.32	-90.320	-482.78	141.23	478.56	419.83	58.73	8.148	
8,400.00	8,350.11	8,381.00	8,350.32	30.21	29.65	-90.313	-482.71	141.23	478.56	419.16	59.40	8.056	
8,500.00	8,450.11	8,482.21	8,450.87	30.54	29.98	-89.069	-472.33	141.48	478.36	418.32	60.05	7.967	
8,519.31	8,469.42	8,501.17	8,469.42	30.60	30.04	-88.600	-468.42	141.58	478.35	418.19	60.16	7.951	
8,600.00	8,550.11	8,577.00	8,542.02	30.87	30.28	-86.001	-446.71	142.11	478.91	418.35	60.56	7.908	SF
8,700.00	8,650.11	8,661.47	8,618.71	31.20	30.52	-81.814	-411.51	142.97	482.74	421.91	60.83	7.936	
8,800.00	8,750.11	8,734.17	8,679.97	31.54	30.71	-77.254	-372.46	143.92	492.90	432.23	60.67	8.125	
8,900.00	8,850.11	8,800.00	8,730.78	31.87	30.87	-72.531	-330.67	144.94	511.90	451.92	59.98	8.535	
9,000.00	8,950.11	8,850.00	8,765.97	32.20	30.98	-68.688	-295.19	145.81	541.06	482.53	58.53	9.245	
9,100.00	9,050.11	8,889.95	8,791.79	32.54	31.06	-65.528	-264.72	146.55	580.57	524.06	56.51	10.274	
9,200.00	9,150.11	8,926.09	8,813.26	32.88	31.13	-62.647	-235.66	147.27	629.67	575.37	54.31	11.595	
9,300.00	9,249.97	8,950.00	8,826.44	33.21	31.17	-61.111	-215.73	147.75	686.00	634.14	51.86	13.228	
9,400.00	9,347.83	9,000.00	8,851.25	33.53	31.26	-59.040	-172.35	148.81	742.99	692.76	50.24	14.790	
9,500.00	9,440.75	9,028.52	8,863.68	33.82	31.30	-60.205	-146.69	149.44	797.67	749.45	48.22	16.542	
9,600.00	9,525.90	9,065.89	8,878.00	34.07	31.36	-62.072	-112.19	150.28	848.14	801.50	46.65	18.182	
9,700.00	9,600.68	9,100.00	8,889.08	34.28	31.41	-65.585	-79.95	151.07	892.89	847.60	45.29	19.716	
9,800.00	9,662.84	9,150.00	8,901.82	34.44	31.47	-68.814	-31.63	152.25	930.80	886.34	44.46	20.936	
9,900.00	9,710.48	9,183.01	8,907.90	34.56	31.51	-74.749	0.81	153.04	960.99	917.23	43.76	21.961	

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

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 113H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,000.00	9,742.15	9,223.00	8,912.74	34.64	31.55	-80.759	40.48	154.01	983.04	939.51	43.53	22.582	
10,100.00	9,756.90	9,263.19	8,914.81	34.70	31.59	-87.112	80.60	154.99	996.54	952.82	43.72	22.795	
10,200.00	9,758.31	9,335.66	8,914.78	34.75	31.66	-89.997	153.06	156.09	1,003.11	958.97	44.14	22.724	
10,300.00	9,758.83	9,430.39	8,914.61	34.82	31.77	-90.507	247.78	155.62	1,008.55	964.02	44.53	22.650	
10,400.00	9,759.35	9,530.22	8,914.44	34.92	31.91	-90.506	347.62	155.01	1,012.18	967.34	44.84	22.573	
10,500.00	9,759.88	9,630.19	8,914.26	35.05	32.07	-90.505	447.58	154.39	1,013.91	968.82	45.09	22.485	
10,600.00	9,760.40	9,730.19	8,914.09	35.21	32.25	-90.505	547.58	153.77	1,014.50	969.18	45.32	22.385	
10,700.00	9,760.92	9,830.19	8,913.92	35.39	32.46	-90.506	647.58	153.15	1,015.09	969.51	45.58	22.270	
10,800.00	9,761.44	9,930.19	8,913.74	35.59	32.69	-90.506	747.57	152.53	1,015.67	969.80	45.87	22.142	
10,900.00	9,761.96	10,030.18	8,913.57	35.82	32.94	-90.506	847.57	151.91	1,016.26	970.07	46.19	22.001	
11,000.00	9,762.48	10,130.18	8,913.39	36.06	33.22	-90.506	947.56	151.30	1,016.84	970.30	46.54	21.848	
11,100.00	9,763.01	10,230.18	8,913.22	36.33	33.51	-90.506	1,047.56	150.68	1,017.43	970.51	46.92	21.684	
11,200.00	9,763.53	10,330.18	8,913.04	36.61	33.82	-90.506	1,147.55	150.06	1,018.01	970.68	47.33	21.510	
11,300.00	9,764.05	10,430.17	8,912.87	36.91	34.15	-90.506	1,247.55	149.44	1,018.60	970.84	47.76	21.327	
11,400.00	9,764.57	10,530.17	8,912.69	37.23	34.51	-90.506	1,347.54	148.82	1,019.18	970.96	48.22	21.136	
11,500.00	9,765.09	10,630.17	8,912.52	37.57	34.87	-90.507	1,447.54	148.21	1,019.77	971.06	48.71	20.937	
11,600.00	9,765.61	10,730.17	8,912.34	37.92	35.26	-90.507	1,547.54	147.59	1,020.35	971.14	49.22	20.732	
11,700.00	9,766.13	10,830.16	8,912.17	38.29	35.66	-90.507	1,647.53	146.97	1,020.94	971.19	49.75	20.522	
11,800.00	9,766.66	10,930.16	8,912.00	38.67	36.08	-90.507	1,747.53	146.35	1,021.52	971.21	50.31	20.306	
11,900.00	9,767.18	11,030.16	8,911.82	39.07	36.52	-90.507	1,847.52	145.73	1,022.11	971.22	50.89	20.086	
12,000.00	9,767.70	11,130.16	8,911.65	39.49	36.97	-90.507	1,947.52	145.11	1,022.69	971.20	51.49	19.863	
12,100.00	9,768.22	11,230.16	8,911.47	39.92	37.43	-90.507	2,047.51	144.50	1,023.28	971.17	52.11	19.637	
12,200.00	9,768.74	11,330.15	8,911.30	40.36	37.91	-90.507	2,147.51	143.88	1,023.86	971.11	52.75	19.409	
12,300.00	9,769.26	11,430.15	8,911.12	40.82	38.41	-90.508	2,247.50	143.26	1,024.45	971.04	53.41	19.180	
12,400.00	9,769.78	11,530.15	8,910.95	41.29	38.91	-90.508	2,347.50	142.64	1,025.04	970.94	54.09	18.950	
12,500.00	9,770.31	11,630.15	8,910.77	41.78	39.43	-90.508	2,447.49	142.02	1,025.62	970.83	54.79	18.719	
12,600.00	9,770.83	11,730.14	8,910.60	42.27	39.96	-90.508	2,547.49	141.41	1,026.21	970.71	55.50	18.489	
12,700.00	9,771.35	11,830.14	8,910.42	42.78	40.51	-90.508	2,647.49	140.79	1,026.80	970.56	56.23	18.259	
12,800.00	9,771.87	11,930.14	8,910.25	43.30	41.06	-90.508	2,747.48	140.17	1,027.38	970.40	56.98	18.030	
12,900.00	9,772.39	12,030.14	8,910.08	43.83	41.62	-90.508	2,847.48	139.55	1,027.97	970.23	57.74	17.803	
13,000.00	9,772.91	12,130.13	8,909.90	44.37	42.20	-90.508	2,947.47	138.93	1,028.56	970.04	58.52	17.576	
13,100.00	9,773.43	12,230.13	8,909.73	44.92	42.78	-90.509	3,047.47	138.31	1,029.14	969.84	59.31	17.352	
13,200.00	9,773.96	12,330.13	8,909.55	45.48	43.38	-90.509	3,147.46	137.70	1,029.73	969.62	60.11	17.130	
13,300.00	9,774.48	12,430.13	8,909.38	46.05	43.98	-90.509	3,247.46	137.08	1,030.32	969.39	60.93	16.911	
13,400.00	9,775.00	12,530.12	8,909.20	46.63	44.59	-90.509	3,347.45	136.46	1,030.91	969.15	61.76	16.693	
13,500.00	9,775.52	12,630.12	8,909.03	47.21	45.21	-90.509	3,447.45	135.84	1,031.50	968.90	62.59	16.479	
13,600.00	9,776.04	12,730.12	8,908.85	47.81	45.84	-90.509	3,547.45	135.22	1,032.08	968.64	63.45	16.267	
13,700.00	9,776.56	12,830.12	8,908.68	48.41	46.48	-90.509	3,647.44	134.61	1,032.67	968.36	64.31	16.059	
13,800.00	9,777.08	12,930.11	8,908.50	49.03	47.12	-90.509	3,747.44	133.99	1,033.26	968.08	65.18	15.853	
13,900.00	9,777.61	13,030.11	8,908.33	49.65	47.77	-90.510	3,847.43	133.37	1,033.85	967.79	66.06	15.650	
14,000.00	9,778.13	13,130.11	8,908.16	50.27	48.43	-90.510	3,947.43	132.75	1,034.44	967.49	66.95	15.451	
14,100.00	9,778.65	13,230.11	8,907.98	50.91	49.09	-90.510	4,047.42	132.13	1,035.02	967.17	67.85	15.255	
14,200.00	9,779.17	13,330.10	8,907.81	51.55	49.76	-90.510	4,147.42	131.51	1,035.61	966.86	68.76	15.062	
14,300.00	9,779.69	13,430.10	8,907.63	52.19	50.44	-90.510	4,247.41	130.90	1,036.20	966.53	69.67	14.872	
14,400.00	9,780.21	13,530.10	8,907.46	52.85	51.12	-90.510	4,347.41	130.28	1,036.79	966.19	70.60	14.686	
14,500.00	9,780.73	13,630.10	8,907.28	53.51	51.81	-90.510	4,447.41	129.66	1,037.38	965.85	71.53	14.503	
14,600.00	9,781.26	13,730.09	8,907.11	54.17	52.50	-90.510	4,547.40	129.04	1,037.97	965.50	72.47	14.323	
14,700.00	9,781.78	13,830.09	8,906.93	54.84	53.20	-90.511	4,647.40	128.42	1,038.56	965.14	73.42	14.146	
14,800.00	9,782.30	13,930.09	8,906.76	55.52	53.90	-90.511	4,747.39	127.81	1,039.15	964.78	74.37	13.973	
14,900.00	9,782.82	14,030.09	8,906.59	56.20	54.61	-90.511	4,847.39	127.19	1,039.74	964.41	75.33	13.803	
15,000.00	9,783.34	14,130.09	8,906.41	56.89	55.32	-90.511	4,947.38	126.57	1,040.33	964.03	76.29	13.636	

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

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 113H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,100.00	9,783.86	14,230.08	8,906.24	57.58	56.04	-90.511	5,047.38	125.95	1,040.92	963.65	77.26	13.472	
15,200.00	9,784.38	14,330.08	8,906.06	58.28	56.76	-90.511	5,147.37	125.33	1,041.51	963.27	78.24	13.312	
15,300.00	9,784.91	14,430.08	8,905.89	58.98	57.48	-90.511	5,247.37	124.71	1,042.10	962.88	79.22	13.154	
15,400.00	9,785.43	14,530.08	8,905.71	59.68	58.21	-90.511	5,347.36	124.10	1,042.69	962.48	80.21	13.000	
15,500.00	9,785.95	14,630.07	8,905.54	60.39	58.94	-90.511	5,447.36	123.48	1,043.28	962.08	81.20	12.848	
15,600.00	9,786.47	14,730.07	8,905.36	61.10	59.68	-90.512	5,547.36	122.86	1,043.87	961.67	82.20	12.699	
15,700.00	9,786.99	14,830.07	8,905.19	61.82	60.42	-90.512	5,647.35	122.24	1,044.46	961.26	83.20	12.554	
15,800.00	9,787.51	14,930.07	8,905.01	62.54	61.16	-90.512	5,747.35	121.62	1,045.05	960.85	84.21	12.411	
15,900.00	9,788.03	15,030.06	8,904.84	63.27	61.91	-90.512	5,847.34	121.01	1,045.64	960.43	85.22	12.271	
16,000.00	9,788.56	15,130.06	8,904.67	63.99	62.66	-90.512	5,947.34	120.39	1,046.23	960.00	86.23	12.133	
16,100.00	9,789.08	15,230.06	8,904.49	64.73	63.41	-90.512	6,047.33	119.77	1,046.82	959.58	87.25	11.998	
16,200.00	9,789.60	15,330.06	8,904.32	65.46	64.16	-90.512	6,147.33	119.15	1,047.42	959.15	88.27	11.866	
16,300.00	9,790.12	15,430.05	8,904.14	66.20	64.92	-90.512	6,247.32	118.53	1,048.01	958.71	89.29	11.737	
16,400.00	9,790.64	15,530.05	8,903.97	66.94	65.68	-90.513	6,347.32	117.91	1,048.60	958.28	90.32	11.610	
16,500.00	9,791.16	15,630.05	8,903.79	67.68	66.44	-90.513	6,447.32	117.30	1,049.19	957.84	91.35	11.485	
16,600.00	9,791.68	15,730.05	8,903.62	68.43	67.21	-90.513	6,547.31	116.68	1,049.78	957.39	92.39	11.363	
16,700.00	9,792.21	15,830.04	8,903.44	69.18	67.98	-90.513	6,647.31	116.06	1,050.37	956.95	93.43	11.243	
16,800.00	9,792.73	15,930.04	8,903.27	69.93	68.75	-90.513	6,747.30	115.44	1,050.97	956.50	94.47	11.125	
16,900.00	9,793.25	16,030.04	8,903.09	70.69	69.52	-90.513	6,847.30	114.82	1,051.56	956.05	95.51	11.010	
17,000.00	9,793.77	16,130.04	8,902.92	71.45	70.30	-90.513	6,947.29	114.21	1,052.15	955.60	96.56	10.897	
17,100.00	9,794.29	16,230.03	8,902.75	72.21	71.07	-90.513	7,047.29	113.59	1,052.74	955.14	97.60	10.786	
17,200.00	9,794.81	16,330.03	8,902.57	72.97	71.85	-90.514	7,147.28	112.97	1,053.34	954.68	98.66	10.677	
17,300.00	9,795.33	16,430.03	8,902.40	73.73	72.63	-90.514	7,247.28	112.35	1,053.93	954.22	99.71	10.570	
17,400.00	9,795.86	16,530.03	8,902.22	74.50	73.42	-90.514	7,347.28	111.73	1,054.52	953.76	100.76	10.465	
17,500.00	9,796.38	16,630.02	8,902.05	75.27	74.20	-90.514	7,447.27	111.11	1,055.11	953.29	101.82	10.362	
17,600.00	9,796.90	16,730.02	8,901.87	76.04	74.99	-90.514	7,547.27	110.50	1,055.71	952.83	102.88	10.261	
17,700.00	9,797.42	16,830.02	8,901.70	76.81	75.78	-90.514	7,647.26	109.88	1,056.30	952.36	103.94	10.162	
17,800.00	9,797.94	16,930.02	8,901.52	77.59	76.57	-90.514	7,747.26	109.26	1,056.89	951.89	105.01	10.065	
17,900.00	9,798.46	17,030.01	8,901.35	78.36	77.36	-90.514	7,847.25	108.64	1,057.49	951.41	106.07	9.969	
18,000.00	9,798.98	17,130.01	8,901.17	79.14	78.15	-90.515	7,947.25	108.02	1,058.08	950.94	107.14	9.875	
18,100.00	9,799.51	17,230.01	8,901.00	79.92	78.95	-90.515	8,047.24	107.41	1,058.67	950.46	108.21	9.783	
18,200.00	9,800.03	17,330.01	8,900.83	80.71	79.75	-90.515	8,147.24	106.79	1,059.27	949.99	109.28	9.693	
18,300.00	9,800.55	17,430.01	8,900.65	81.49	80.54	-90.515	8,247.23	106.17	1,059.86	949.51	110.36	9.604	
18,400.00	9,801.07	17,530.00	8,900.48	82.28	81.34	-90.515	8,347.23	105.55	1,060.46	949.03	111.43	9.517	
18,500.00	9,801.59	17,630.00	8,900.30	83.06	82.14	-90.515	8,447.23	104.93	1,061.05	948.55	112.51	9.431	
18,600.00	9,802.11	17,730.00	8,900.13	83.85	82.95	-90.515	8,547.22	104.31	1,061.65	948.06	113.58	9.347	
18,700.00	9,802.63	17,830.00	8,899.95	84.64	83.75	-90.515	8,647.22	103.70	1,062.24	947.58	114.66	9.264	
18,800.00	9,803.16	17,929.99	8,899.78	85.43	84.55	-90.516	8,747.21	103.08	1,062.83	947.09	115.74	9.183	
18,900.00	9,803.68	18,029.99	8,899.60	86.23	85.36	-90.516	8,847.21	102.46	1,063.43	946.61	116.82	9.103	
19,000.00	9,804.20	18,129.99	8,899.43	87.02	86.17	-90.516	8,947.20	101.84	1,064.02	946.12	117.90	9.024	
19,100.00	9,804.72	18,229.99	8,899.25	87.82	86.98	-90.516	9,047.20	101.22	1,064.62	945.63	118.99	8.947	
19,200.00	9,805.24	18,329.98	8,899.08	88.62	87.79	-90.516	9,147.19	100.61	1,065.21	945.14	120.07	8.871	
19,300.00	9,805.76	18,429.98	8,898.91	89.42	88.60	-90.516	9,247.19	99.99	1,065.81	944.65	121.16	8.797	
19,400.00	9,806.28	18,529.98	8,898.73	90.22	89.41	-90.516	9,347.19	99.37	1,066.40	944.16	122.24	8.724	
19,500.00	9,806.81	18,629.98	8,898.56	91.02	90.22	-90.516	9,447.18	98.75	1,067.00	943.67	123.33	8.651	
19,600.00	9,807.33	18,729.97	8,898.38	91.82	91.03	-90.517	9,547.18	98.13	1,067.60	943.17	124.42	8.581	
19,700.00	9,807.85	18,829.97	8,898.21	92.62	91.85	-90.517	9,647.17	97.51	1,068.19	942.68	125.51	8.511	
19,800.00	9,808.37	18,929.97	8,898.03	93.43	92.67	-90.517	9,747.17	96.90	1,068.79	942.19	126.60	8.442	
19,900.00	9,808.89	19,029.97	8,897.86	94.23	93.48	-90.517	9,847.16	96.28	1,069.38	941.69	127.69	8.375	
20,000.00	9,809.41	19,129.96	8,897.68	95.04	94.30	-90.517	9,947.16	95.66	1,069.98	941.20	128.78	8.308	

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

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 113H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1+SAG+FDIR
Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,076.24	9,809.81	19,206.20	8,897.55	95.65	94.92	-90.517	10,023.40	95.19	1,070.43	940.82	129.62	8.258	

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 116H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-76.557	25.04	-104.77	107.73				
100.00	100.00	100.00	100.00	0.26	0.26	-76.557	25.04	-104.77	107.73	107.20	0.53	204.431	
200.00	200.00	200.00	200.00	0.62	0.62	-76.557	25.04	-104.77	107.73	106.48	1.24	86.604	
300.00	300.00	300.00	300.00	0.98	0.98	-76.557	25.04	-104.77	107.73	105.76	1.96	54.939	CC
400.00	399.99	399.99	399.99	1.32	1.34	-76.171	25.04	-104.77	108.21	105.55	2.66	40.650	ES
500.00	499.96	499.96	499.96	1.66	1.70	-75.035	25.04	-104.77	109.69	106.33	3.36	32.669	
600.00	599.86	599.86	599.86	2.01	2.06	-73.210	25.04	-104.77	112.24	108.18	4.06	27.640	
700.00	699.68	699.68	699.68	2.36	2.41	-70.795	25.04	-104.77	116.00	111.23	4.77	24.325	
800.00	799.40	799.40	799.40	2.71	2.77	-68.314	25.04	-104.77	121.39	115.91	5.48	22.150	
900.00	899.03	899.03	899.03	3.07	3.13	-66.246	25.04	-104.77	128.66	122.47	6.19	20.775	
1,000.00	998.54	998.54	998.54	3.43	3.48	-64.606	25.04	-104.77	137.76	130.85	6.91	19.947	
1,100.00	1,097.90	1,097.90	1,097.90	3.79	3.84	-63.376	25.04	-104.77	148.61	140.99	7.62	19.506	
1,200.00	1,197.08	1,197.08	1,197.08	4.15	4.20	-62.507	25.04	-104.77	161.13	152.80	8.33	19.342	
1,300.00	1,296.21	1,296.21	1,296.21	4.52	4.55	-61.824	25.04	-104.77	174.21	165.17	9.04	19.273	
1,400.00	1,395.33	1,395.33	1,395.33	4.89	4.91	-61.236	25.04	-104.77	187.31	177.56	9.75	19.214	
1,500.00	1,494.45	1,494.45	1,494.45	5.25	5.26	-60.725	25.04	-104.77	200.43	189.97	10.46	19.165	
1,600.00	1,593.57	1,593.57	1,593.57	5.62	5.62	-60.277	25.04	-104.77	213.56	202.39	11.17	19.122	
1,700.00	1,692.69	1,692.69	1,692.69	5.99	5.97	-59.881	25.04	-104.77	226.70	214.83	11.88	19.084	
1,800.00	1,791.81	1,791.81	1,791.81	6.36	6.33	-59.529	25.04	-104.77	239.86	227.27	12.59	19.051	
1,900.00	1,890.93	1,897.21	1,897.20	6.73	6.69	-59.154	24.65	-103.60	251.89	238.57	13.32	18.913	
2,000.00	1,990.05	2,003.74	2,003.64	7.10	7.05	-58.672	23.31	-99.63	261.24	247.20	14.03	18.615	
2,100.00	2,089.17	2,110.70	2,110.36	7.47	7.42	-58.076	21.00	-92.81	267.89	253.15	14.75	18.168	
2,200.00	2,188.29	2,217.94	2,217.11	7.84	7.79	-57.354	17.74	-83.13	271.85	256.40	15.45	17.595	
2,300.00	2,287.41	2,325.28	2,323.63	8.21	8.16	-56.488	13.51	-70.61	273.14	256.99	16.15	16.914	
2,400.00	2,386.53	2,432.55	2,429.67	8.58	8.53	-55.453	8.33	-55.26	271.77	254.93	16.84	16.140	
2,500.00	2,485.66	2,539.59	2,534.98	8.95	8.91	-54.214	2.21	-37.15	267.80	250.29	17.52	15.286	
2,600.00	2,584.78	2,646.23	2,639.32	9.33	9.28	-52.724	-4.82	-16.32	261.29	243.10	18.19	14.365	
2,700.00	2,683.90	2,752.29	2,742.46	9.70	9.66	-50.920	-12.73	7.12	252.33	233.48	18.85	13.386	
2,800.00	2,783.02	2,857.64	2,844.18	10.07	10.05	-48.714	-21.49	33.07	241.05	221.54	19.51	12.358	
2,900.00	2,882.14	2,958.90	2,941.32	10.44	10.42	-46.138	-30.63	60.15	228.01	207.81	20.19	11.291	
3,000.00	2,981.26	3,057.50	3,035.84	10.81	10.78	-43.310	-39.61	86.75	215.20	194.28	20.92	10.289	
3,100.00	3,080.38	3,156.11	3,130.36	11.19	11.15	-40.144	-48.60	113.36	202.95	181.30	21.65	9.375	
3,200.00	3,179.50	3,254.71	3,224.88	11.56	11.53	-36.599	-57.58	139.96	191.37	168.98	22.39	8.546	
3,300.00	3,278.62	3,353.31	3,319.40	11.93	11.90	-32.635	-66.56	166.57	180.59	157.43	23.15	7.800	
3,400.00	3,377.74	3,451.92	3,413.92	12.30	12.28	-28.218	-75.54	193.17	170.75	146.82	23.93	7.135	
3,500.00	3,476.86	3,550.52	3,508.44	12.67	12.66	-23.326	-84.52	219.77	162.03	137.30	24.73	6.553	
3,600.00	3,575.98	3,649.12	3,602.96	13.05	13.05	-17.964	-93.50	246.38	154.62	129.08	25.55	6.053	
3,700.00	3,675.11	3,747.72	3,697.48	13.42	13.43	-12.167	-102.48	272.98	148.72	122.33	26.38	5.637	
3,800.00	3,774.23	3,846.33	3,792.00	13.79	13.82	-6.010	-111.46	299.59	144.50	117.27	27.23	5.306	
3,900.00	3,873.35	3,944.93	3,886.52	14.16	14.20	0.388	-120.45	326.19	142.12	114.04	28.09	5.060	
3,972.78	3,945.48	4,016.69	3,955.31	14.43	14.49	5.110	-126.98	345.55	141.61	112.90	28.70	4.933	
4,000.00	3,972.47	4,043.53	3,981.04	14.54	14.59	6.875	-129.43	352.80	141.68	112.74	28.93	4.897	
4,100.00	4,071.59	4,142.14	4,075.56	14.91	14.99	13.290	-138.41	379.40	143.18	113.42	29.76	4.810	
4,200.00	4,170.71	4,240.74	4,170.08	15.28	15.38	19.477	-147.39	406.00	146.58	116.01	30.57	4.795	SF
4,300.00	4,269.83	4,339.34	4,264.61	15.65	15.77	25.316	-156.37	432.61	151.73	120.39	31.35	4.840	
4,400.00	4,368.95	4,437.94	4,359.13	16.03	16.17	30.725	-165.35	459.21	158.48	126.38	32.10	4.937	
4,500.00	4,468.07	4,536.55	4,453.65	16.40	16.56	35.665	-174.33	485.82	166.63	133.80	32.83	5.075	
4,600.00	4,567.19	4,635.15	4,548.17	16.77	16.96	40.131	-183.32	512.42	175.98	142.43	33.54	5.246	
4,700.00	4,666.31	4,733.75	4,642.69	17.14	17.36	44.140	-192.30	539.02	186.35	152.11	34.25	5.442	
4,800.00	4,765.44	4,832.35	4,737.21	17.52	17.76	47.727	-201.28	565.63	197.59	162.65	34.94	5.655	
4,900.00	4,864.56	4,930.96	4,831.73	17.89	18.15	50.929	-210.26	592.23	209.54	173.91	35.63	5.881	

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

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 116H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,963.68	5,029.56	4,926.25	18.26	18.55	53.790	-219.24	618.84	222.11	185.79	36.32	6.116	
5,100.00	5,062.80	5,128.16	5,020.77	18.64	18.96	56.348	-228.22	645.44	235.18	198.18	37.01	6.355	
5,200.00	5,161.92	5,226.77	5,115.29	19.01	19.36	58.641	-237.20	672.04	248.68	210.99	37.70	6.597	
5,300.00	5,261.04	5,325.37	5,209.81	19.38	19.76	60.701	-246.19	698.65	262.55	224.16	38.39	6.840	
5,400.00	5,360.16	5,423.97	5,304.33	19.75	20.16	62.558	-255.17	725.25	276.72	237.64	39.08	7.081	
5,500.00	5,459.28	5,522.57	5,398.85	20.13	20.56	64.236	-264.15	751.86	291.16	251.39	39.77	7.320	
5,600.00	5,558.40	5,621.18	5,493.37	20.50	20.97	65.759	-273.13	778.46	305.82	265.35	40.47	7.557	
5,700.00	5,657.52	5,719.78	5,587.89	20.87	21.37	67.144	-282.11	805.06	320.68	279.51	41.17	7.789	
5,800.00	5,756.64	5,818.38	5,682.41	21.25	21.78	68.408	-291.09	831.67	335.71	293.84	41.87	8.018	
5,900.00	5,855.76	5,916.99	5,776.93	21.62	22.18	69.566	-300.07	858.27	350.88	308.31	42.57	8.242	
6,000.00	5,954.89	6,015.59	5,871.45	21.99	22.59	70.628	-309.05	884.88	366.18	322.90	43.28	8.461	
6,100.00	6,054.01	6,114.19	5,965.97	22.36	22.99	71.607	-318.04	911.48	381.60	337.61	43.98	8.676	
6,200.00	6,153.13	6,212.79	6,060.49	22.74	23.40	72.511	-327.02	938.08	397.12	352.42	44.69	8.886	
6,300.00	6,252.25	6,311.40	6,155.01	23.11	23.80	73.348	-336.00	964.69	412.73	367.33	45.40	9.091	
6,400.00	6,351.50	6,409.84	6,249.38	23.48	24.21	74.235	-344.97	991.25	429.06	382.96	46.10	9.306	
6,500.00	6,450.95	6,508.01	6,343.48	23.85	24.61	75.231	-353.91	1,017.74	446.59	399.79	46.80	9.543	
6,600.00	6,550.57	6,605.86	6,437.28	24.21	25.02	76.316	-362.82	1,044.14	465.36	417.87	47.48	9.801	
6,700.00	6,650.33	6,703.38	6,530.76	24.57	25.42	77.473	-371.70	1,070.45	485.41	437.25	48.16	10.080	
6,800.00	6,750.19	6,800.52	6,623.88	24.93	25.82	78.683	-380.55	1,096.66	506.79	457.97	48.82	10.380	
6,900.00	6,850.13	6,897.27	6,716.62	25.29	26.22	79.933	-389.36	1,122.76	529.55	480.07	49.48	10.702	
7,000.00	6,950.11	6,993.59	6,808.95	25.64	26.62	81.208	-398.14	1,148.75	553.73	503.59	50.14	11.045	
7,100.00	7,050.11	7,089.50	6,900.90	25.97	27.02	82.481	-406.87	1,174.63	579.21	528.45	50.76	11.410	
7,200.00	7,150.11	7,185.36	6,992.79	26.29	27.42	83.662	-415.60	1,200.49	605.09	553.71	51.38	11.776	
7,300.00	7,250.11	7,281.22	7,084.68	26.61	27.81	84.747	-424.34	1,226.36	631.20	579.19	52.01	12.136	
7,400.00	7,350.11	7,393.37	7,192.56	26.93	28.28	85.863	-434.13	1,255.37	656.44	603.61	52.83	12.425	
7,500.00	7,450.11	7,509.15	7,304.83	27.26	28.74	86.809	-443.18	1,282.17	679.14	625.48	53.66	12.656	
7,600.00	7,550.11	7,626.61	7,419.55	27.58	29.20	87.592	-451.24	1,306.06	699.18	644.71	54.47	12.836	
7,700.00	7,650.11	7,745.56	7,536.45	27.91	29.66	88.230	-458.25	1,326.83	716.46	661.20	55.26	12.966	
7,800.00	7,750.11	7,865.79	7,655.26	28.23	30.10	88.739	-464.16	1,344.31	730.89	674.87	56.02	13.048	
7,900.00	7,850.11	7,987.09	7,775.64	28.56	30.54	89.131	-468.89	1,358.35	742.40	685.65	56.74	13.084	
8,000.00	7,950.11	8,109.21	7,897.26	28.89	30.97	89.413	-472.43	1,368.81	750.93	693.50	57.43	13.075	
8,100.00	8,050.11	8,231.92	8,019.75	29.22	31.39	89.592	-474.72	1,375.61	756.46	698.38	58.08	13.024	
8,200.00	8,150.11	8,354.97	8,142.75	29.55	31.80	89.672	-475.76	1,378.69	758.95	700.27	58.69	12.932	
8,300.00	8,250.11	8,462.33	8,250.11	29.88	32.14	89.677	-475.83	1,378.88	759.11	699.79	59.32	12.797	
8,400.00	8,350.11	8,562.33	8,350.11	30.21	32.46	89.677	-475.83	1,378.88	759.11	699.13	59.98	12.656	
8,453.17	8,403.28	8,615.51	8,403.28	30.38	32.62	89.647	-475.43	1,378.88	759.11	698.78	60.33	12.582	
8,500.00	8,450.11	8,662.06	8,449.68	30.54	32.77	89.374	-471.81	1,378.85	759.12	698.46	60.65	12.516	
8,600.00	8,550.11	8,757.84	8,543.41	30.87	33.06	87.925	-452.60	1,378.73	759.48	698.09	61.40	12.370	
8,700.00	8,650.11	8,845.13	8,624.96	31.20	33.29	85.601	-421.73	1,378.54	761.42	699.22	62.20	12.241	
8,800.00	8,750.11	8,921.58	8,691.82	31.54	33.47	82.838	-384.79	1,378.32	766.72	703.72	63.00	12.171	
8,900.00	8,850.11	8,986.88	8,744.62	31.87	33.60	80.002	-346.42	1,378.08	777.19	713.55	63.64	12.213	
9,000.00	8,950.11	9,041.95	8,785.51	32.20	33.70	77.322	-309.57	1,377.85	794.26	730.28	63.98	12.414	
9,100.00	9,050.11	9,088.22	8,817.01	32.54	33.76	74.905	-275.69	1,377.65	818.83	754.89	63.95	12.805	
9,200.00	9,150.11	9,127.16	8,841.32	32.88	33.81	72.780	-245.28	1,377.46	851.22	787.71	63.51	13.403	
9,300.00	9,249.97	9,161.75	8,861.14	33.21	33.85	71.079	-216.94	1,377.28	889.74	827.01	62.73	14.183	
9,400.00	9,347.83	9,200.00	8,881.03	33.53	33.88	70.145	-184.27	1,377.08	927.98	866.23	61.75	15.028	
9,500.00	9,440.75	9,235.72	8,897.59	33.82	33.90	70.346	-152.63	1,376.89	963.60	903.04	60.56	15.911	
9,600.00	9,525.90	9,274.62	8,913.35	34.07	33.92	71.296	-117.07	1,376.67	995.09	935.74	59.35	16.766	
9,700.00	9,600.68	9,314.37	8,926.91	34.28	33.94	73.095	-79.72	1,376.44	1,021.23	963.07	58.16	17.559	
9,800.00	9,662.84	9,350.00	8,936.85	34.44	33.94	76.058	-45.51	1,376.23	1,041.13	984.11	57.02	18.259	

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

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 116H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.00	9,710.48	9,400.00	8,947.17	34.56	33.94	78.765	3.40	1,375.93	1,054.04	997.87	56.18	18.763	
10,000.00	9,742.15	9,450.00	8,953.19	34.64	33.94	82.097	53.02	1,375.62	1,059.73	1,004.21	55.51	19.090	
10,100.00	9,756.90	9,477.84	8,954.66	34.70	33.93	87.747	80.82	1,375.45	1,057.35	1,002.32	55.03	19.214	
10,200.00	9,758.31	9,552.82	8,954.79	34.75	33.92	89.766	155.79	1,374.99	1,050.09	995.16	54.92	19.119	
10,300.00	9,758.83	9,652.40	8,954.61	34.82	33.90	89.768	255.37	1,374.37	1,044.82	989.87	54.96	19.012	
10,400.00	9,759.35	9,752.24	8,954.44	34.92	33.89	89.769	355.21	1,373.76	1,041.82	986.72	55.09	18.909	
10,485.17	9,759.80	9,837.38	8,954.29	35.03	33.88	89.769	440.34	1,373.24	1,041.01	985.71	55.30	18.824	
10,500.00	9,759.88	9,852.21	8,954.26	35.05	33.88	89.769	455.17	1,373.14	1,041.04	985.69	55.35	18.810	
10,600.00	9,760.40	9,952.21	8,954.09	35.21	33.88	89.769	555.17	1,372.53	1,041.57	985.89	55.67	18.709	
10,700.00	9,760.92	10,052.20	8,953.92	35.39	33.88	89.769	655.17	1,371.91	1,042.10	986.08	56.03	18.600	
10,800.00	9,761.44	10,152.20	8,953.74	35.59	33.89	89.770	755.16	1,371.30	1,042.64	986.23	56.41	18.484	
10,900.00	9,761.96	10,252.20	8,953.57	35.82	33.91	89.770	855.16	1,370.68	1,043.18	986.36	56.82	18.360	
11,000.00	9,762.48	10,352.20	8,953.39	36.06	33.96	89.770	955.15	1,370.06	1,043.71	986.46	57.25	18.230	
11,100.00	9,763.01	10,452.19	8,953.22	36.33	34.07	89.770	1,055.15	1,369.45	1,044.25	986.53	57.72	18.093	
11,200.00	9,763.53	10,552.19	8,953.04	36.61	34.27	89.770	1,155.14	1,368.83	1,044.79	986.58	58.20	17.951	
11,300.00	9,764.05	10,652.19	8,952.87	36.91	34.53	89.770	1,255.14	1,368.22	1,045.32	986.61	58.71	17.804	
11,400.00	9,764.57	10,752.19	8,952.69	37.23	34.84	89.770	1,355.13	1,367.60	1,045.86	986.61	59.25	17.652	
11,500.00	9,765.09	10,852.19	8,952.52	37.57	35.18	89.770	1,455.13	1,366.98	1,046.40	986.59	59.81	17.496	
11,600.00	9,765.61	10,952.18	8,952.34	37.92	35.55	89.770	1,555.13	1,366.37	1,046.94	986.55	60.39	17.337	
11,700.00	9,766.13	11,052.18	8,952.17	38.29	35.93	89.771	1,655.12	1,365.75	1,047.48	986.49	60.99	17.174	
11,800.00	9,766.66	11,152.18	8,952.00	38.67	36.33	89.771	1,755.12	1,365.14	1,048.02	986.40	61.62	17.009	
11,900.00	9,767.18	11,252.18	8,951.82	39.07	36.75	89.771	1,855.11	1,364.52	1,048.55	986.30	62.26	16.842	
12,000.00	9,767.70	11,352.17	8,951.65	39.49	37.19	89.771	1,955.11	1,363.91	1,049.09	986.17	62.92	16.673	
12,100.00	9,768.22	11,452.17	8,951.47	39.92	37.64	89.771	2,055.10	1,363.29	1,049.63	986.03	63.61	16.502	
12,200.00	9,768.74	11,552.17	8,951.30	40.36	38.10	89.771	2,155.10	1,362.67	1,050.17	985.86	64.31	16.330	
12,300.00	9,769.26	11,652.17	8,951.12	40.82	38.58	89.771	2,255.09	1,362.06	1,050.71	985.68	65.03	16.158	
12,400.00	9,769.78	11,752.16	8,950.95	41.29	39.07	89.771	2,355.09	1,361.44	1,051.25	985.49	65.76	15.985	
12,500.00	9,770.31	11,852.16	8,950.77	41.78	39.58	89.771	2,455.08	1,360.83	1,051.79	985.28	66.52	15.813	
12,600.00	9,770.83	11,952.16	8,950.60	42.27	40.10	89.771	2,555.08	1,360.21	1,052.33	985.05	67.29	15.640	
12,700.00	9,771.35	12,052.16	8,950.43	42.78	40.63	89.772	2,655.08	1,359.59	1,052.87	984.80	68.07	15.468	
12,800.00	9,771.87	12,152.15	8,950.25	43.30	41.17	89.772	2,755.07	1,358.98	1,053.41	984.54	68.87	15.296	
12,900.00	9,772.39	12,252.15	8,950.08	43.83	41.72	89.772	2,855.07	1,358.36	1,053.95	984.27	69.68	15.125	
13,000.00	9,772.91	12,352.15	8,949.90	44.37	42.28	89.772	2,955.06	1,357.75	1,054.49	983.98	70.51	14.955	
13,100.00	9,773.43	12,452.15	8,949.73	44.92	42.85	89.772	3,055.06	1,357.13	1,055.03	983.69	71.35	14.787	
13,200.00	9,773.96	12,552.14	8,949.55	45.48	43.44	89.772	3,155.05	1,356.51	1,055.58	983.37	72.20	14.620	
13,300.00	9,774.48	12,652.14	8,949.38	46.05	44.03	89.772	3,255.05	1,355.90	1,056.12	983.05	73.07	14.454	
13,400.00	9,775.00	12,752.14	8,949.20	46.63	44.63	89.772	3,355.04	1,355.28	1,056.66	982.71	73.94	14.290	
13,500.00	9,775.52	12,852.14	8,949.03	47.21	45.24	89.772	3,455.04	1,354.67	1,057.20	982.37	74.83	14.127	
13,600.00	9,776.04	12,952.13	8,948.86	47.81	45.85	89.773	3,555.04	1,354.05	1,057.74	982.01	75.73	13.967	
13,700.00	9,776.56	13,052.13	8,948.68	48.41	46.48	89.773	3,655.03	1,353.44	1,058.28	981.64	76.64	13.808	
13,800.00	9,777.08	13,152.13	8,948.51	49.03	47.11	89.773	3,755.03	1,352.82	1,058.83	981.26	77.56	13.651	
13,900.00	9,777.61	13,252.13	8,948.33	49.65	47.75	89.773	3,855.02	1,352.20	1,059.37	980.88	78.49	13.496	
14,000.00	9,778.13	13,352.12	8,948.16	50.27	48.40	89.773	3,955.02	1,351.59	1,059.91	980.48	79.43	13.344	
14,100.00	9,778.65	13,452.12	8,947.98	50.91	49.05	89.773	4,055.01	1,350.97	1,060.45	980.07	80.38	13.193	
14,200.00	9,779.17	13,552.12	8,947.81	51.55	49.71	89.773	4,155.01	1,350.36	1,061.00	979.66	81.34	13.045	
14,300.00	9,779.69	13,652.12	8,947.63	52.19	50.38	89.773	4,255.00	1,349.74	1,061.54	979.24	82.30	12.898	
14,400.00	9,780.21	13,752.11	8,947.46	52.85	51.05	89.773	4,355.00	1,349.12	1,062.08	978.81	83.27	12.754	
14,500.00	9,780.73	13,852.11	8,947.28	53.51	51.73	89.774	4,455.00	1,348.51	1,062.63	978.37	84.25	12.612	
14,600.00	9,781.26	13,952.11	8,947.11	54.17	52.41	89.774	4,554.99	1,347.89	1,063.17	977.93	85.24	12.472	
14,700.00	9,781.78	14,052.11	8,946.94	54.84	53.10	89.774	4,654.99	1,347.28	1,063.71	977.48	86.24	12.335	
14,800.00	9,782.30	14,152.11	8,946.76	55.52	53.80	89.774	4,754.98	1,346.66	1,064.26	977.02	87.24	12.199	

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

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 116H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,900.00	9,782.82	14,252.10	8,946.59	56.20	54.50	89.774	4,854.98	1,346.04	1,064.80	976.55	88.25	12.066	
15,000.00	9,783.34	14,352.10	8,946.41	56.89	55.20	89.774	4,954.97	1,345.43	1,065.35	976.08	89.26	11.935	
15,100.00	9,783.86	14,452.10	8,946.24	57.58	55.91	89.774	5,054.97	1,344.81	1,065.89	975.61	90.28	11.806	
15,200.00	9,784.38	14,552.10	8,946.06	58.28	56.62	89.774	5,154.96	1,344.20	1,066.44	975.13	91.31	11.679	
15,300.00	9,784.91	14,652.09	8,945.89	58.98	57.34	89.774	5,254.96	1,343.58	1,066.98	974.64	92.34	11.554	
15,400.00	9,785.43	14,752.09	8,945.71	59.68	58.06	89.774	5,354.96	1,342.97	1,067.53	974.14	93.38	11.432	
15,500.00	9,785.95	14,852.09	8,945.54	60.39	58.78	89.775	5,454.95	1,342.35	1,068.07	973.65	94.42	11.311	
15,600.00	9,786.47	14,952.09	8,945.37	61.10	59.51	89.775	5,554.95	1,341.73	1,068.62	973.14	95.47	11.193	
15,700.00	9,786.99	15,052.08	8,945.19	61.82	60.25	89.775	5,654.94	1,341.12	1,069.16	972.64	96.53	11.077	
15,800.00	9,787.51	15,152.08	8,945.02	62.54	60.98	89.775	5,754.94	1,340.50	1,069.71	972.13	97.58	10.962	
15,900.00	9,788.03	15,252.08	8,944.84	63.27	61.72	89.775	5,854.93	1,339.89	1,070.25	971.61	98.64	10.850	
16,000.00	9,788.56	15,352.08	8,944.67	63.99	62.46	89.775	5,954.93	1,339.27	1,070.80	971.09	99.71	10.739	
16,100.00	9,789.08	15,452.07	8,944.49	64.73	63.21	89.775	6,054.92	1,338.65	1,071.35	970.57	100.78	10.630	
16,200.00	9,789.60	15,552.07	8,944.32	65.46	63.96	89.775	6,154.92	1,338.04	1,071.89	970.04	101.86	10.524	
16,300.00	9,790.12	15,652.07	8,944.14	66.20	64.71	89.775	6,254.92	1,337.42	1,072.44	969.51	102.93	10.419	
16,400.00	9,790.64	15,752.07	8,943.97	66.94	65.47	89.776	6,354.91	1,336.81	1,072.99	968.97	104.02	10.316	
16,500.00	9,791.16	15,852.06	8,943.80	67.68	66.22	89.776	6,454.91	1,336.19	1,073.53	968.43	105.10	10.214	
16,600.00	9,791.68	15,952.06	8,943.62	68.43	66.98	89.776	6,554.90	1,335.57	1,074.08	967.89	106.19	10.115	
16,700.00	9,792.21	16,052.06	8,943.45	69.18	67.75	89.776	6,654.90	1,334.96	1,074.63	967.35	107.28	10.017	
16,800.00	9,792.73	16,152.06	8,943.27	69.93	68.51	89.776	6,754.89	1,334.34	1,075.18	966.80	108.38	9.921	
16,900.00	9,793.25	16,252.05	8,943.10	70.69	69.28	89.776	6,854.89	1,333.73	1,075.72	966.25	109.48	9.826	
17,000.00	9,793.77	16,352.05	8,942.92	71.45	70.05	89.776	6,954.88	1,333.11	1,076.27	965.69	110.58	9.733	
17,100.00	9,794.29	16,452.05	8,942.75	72.21	70.82	89.776	7,054.88	1,332.49	1,076.82	965.14	111.68	9.642	
17,200.00	9,794.81	16,552.05	8,942.57	72.97	71.59	89.776	7,154.87	1,331.88	1,077.37	964.58	112.79	9.552	
17,300.00	9,795.33	16,652.04	8,942.40	73.73	72.37	89.776	7,254.87	1,331.26	1,077.92	964.02	113.90	9.464	
17,400.00	9,795.86	16,752.04	8,942.23	74.50	73.15	89.777	7,354.87	1,330.65	1,078.46	963.45	115.01	9.377	
17,500.00	9,796.38	16,852.04	8,942.05	75.27	73.93	89.777	7,454.86	1,330.03	1,079.01	962.89	116.13	9.292	
17,600.00	9,796.90	16,952.04	8,941.88	76.04	74.71	89.777	7,554.86	1,329.42	1,079.56	962.32	117.24	9.208	
17,700.00	9,797.42	17,052.04	8,941.70	76.81	75.50	89.777	7,654.85	1,328.80	1,080.11	961.75	118.36	9.125	
17,800.00	9,797.94	17,152.03	8,941.53	77.59	76.28	89.777	7,754.85	1,328.18	1,080.66	961.18	119.48	9.044	
17,900.00	9,798.46	17,252.03	8,941.35	78.36	77.07	89.777	7,854.84	1,327.57	1,081.21	960.60	120.61	8.965	
18,000.00	9,798.98	17,352.03	8,941.18	79.14	77.86	89.777	7,954.84	1,326.95	1,081.76	960.02	121.73	8.886	
18,100.00	9,799.51	17,452.03	8,941.00	79.92	78.65	89.777	8,054.83	1,326.34	1,082.31	959.45	122.86	8.809	
18,200.00	9,800.03	17,552.02	8,940.83	80.71	79.44	89.777	8,154.83	1,325.72	1,082.86	958.87	123.99	8.733	
18,300.00	9,800.55	17,652.02	8,940.65	81.49	80.24	89.778	8,254.83	1,325.10	1,083.41	958.29	125.12	8.659	
18,400.00	9,801.07	17,752.02	8,940.48	82.28	81.03	89.778	8,354.82	1,324.49	1,083.96	957.70	126.26	8.585	
18,500.00	9,801.59	17,852.02	8,940.31	83.06	81.83	89.778	8,454.82	1,323.87	1,084.51	957.12	127.39	8.513	
18,600.00	9,802.11	17,952.01	8,940.13	83.85	82.63	89.778	8,554.81	1,323.26	1,085.06	956.53	128.53	8.442	
18,700.00	9,802.63	18,052.01	8,939.96	84.64	83.43	89.778	8,654.81	1,322.64	1,085.61	955.95	129.67	8.372	
18,800.00	9,803.16	18,152.01	8,939.78	85.43	84.23	89.778	8,754.80	1,322.02	1,086.16	955.36	130.80	8.304	
18,900.00	9,803.68	18,252.01	8,939.61	86.23	85.03	89.778	8,854.80	1,321.41	1,086.71	954.77	131.95	8.236	
19,000.00	9,804.20	18,352.00	8,939.43	87.02	85.84	89.778	8,954.79	1,320.79	1,087.26	954.18	133.09	8.170	
19,100.00	9,804.72	18,452.00	8,939.26	87.82	86.64	89.778	9,054.79	1,320.18	1,087.82	953.58	134.23	8.104	
19,200.00	9,805.24	18,552.00	8,939.08	88.62	87.45	89.778	9,154.79	1,319.56	1,088.37	952.99	135.38	8.040	
19,300.00	9,805.76	18,652.00	8,938.91	89.42	88.25	89.779	9,254.78	1,318.95	1,088.92	952.40	136.52	7.976	
19,400.00	9,806.28	18,751.99	8,938.74	90.22	89.06	89.779	9,354.78	1,318.33	1,089.47	951.80	137.67	7.914	
19,500.00	9,806.81	18,851.99	8,938.56	91.02	89.87	89.779	9,454.77	1,317.71	1,090.02	951.20	138.82	7.852	
19,600.00	9,807.33	18,951.99	8,938.39	91.82	90.68	89.779	9,554.77	1,317.10	1,090.57	950.61	139.97	7.792	
19,700.00	9,807.85	19,051.99	8,938.21	92.62	91.49	89.779	9,654.76	1,316.48	1,091.13	950.01	141.12	7.732	
19,800.00	9,808.37	19,151.98	8,938.04	93.43	92.31	89.779	9,754.76	1,315.87	1,091.68	949.41	142.27	7.673	

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

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 116H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1+SAG+FDIR
Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,900.00	9,808.89	19,251.98	8,937.86	94.23	93.12	89.779	9,854.75	1,315.25	1,092.23	948.81	143.42	7.615	
20,000.00	9,809.41	19,351.98	8,937.69	95.04	93.94	89.779	9,954.75	1,314.63	1,092.78	948.21	144.58	7.558	
20,076.24	9,809.81	19,428.22	8,937.56	95.65	94.56	89.779	10,030.99	1,314.16	1,093.21	947.75	145.46	7.516	

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 123H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-89.980	0.04	-129.77	129.77				
100.00	100.00	100.00	100.00	0.26	0.26	-89.980	0.04	-129.77	129.77	129.25	0.53	246.272	
200.00	200.00	200.00	200.00	0.62	0.62	-89.980	0.04	-129.77	129.77	128.53	1.24	104.329	
300.00	300.00	300.00	300.00	0.98	0.98	-89.980	0.04	-129.77	129.77	127.81	1.96	66.183	CC
400.00	399.99	399.99	399.99	1.32	1.34	-89.619	0.04	-129.77	130.08	127.41	2.66	48.865	ES
500.00	499.96	499.96	499.96	1.66	1.70	-88.546	0.04	-129.77	131.01	127.65	3.36	39.023	
600.00	599.86	599.86	599.86	2.01	2.06	-86.792	0.04	-129.77	132.67	128.61	4.06	32.672	
700.00	699.68	699.68	699.68	2.36	2.41	-84.414	0.04	-129.77	135.19	130.42	4.77	28.350	
800.00	799.40	799.40	799.40	2.71	2.77	-81.801	0.04	-129.77	139.22	133.74	5.48	25.403	
900.00	899.03	899.03	899.03	3.07	3.13	-79.357	0.04	-129.77	145.26	139.07	6.19	23.450	
1,000.00	998.54	998.54	998.54	3.43	3.48	-77.156	0.04	-129.77	153.28	146.37	6.91	22.186	
1,100.00	1,097.90	1,097.90	1,097.90	3.79	3.84	-75.237	0.04	-129.77	163.24	155.62	7.62	21.415	
1,200.00	1,197.08	1,197.08	1,197.08	4.15	4.20	-73.613	0.04	-129.77	175.05	166.71	8.34	20.998	
1,300.00	1,296.21	1,298.04	1,298.04	4.52	4.54	-72.431	-0.76	-129.52	187.05	178.02	9.04	20.701	
1,400.00	1,395.33	1,399.37	1,399.33	4.89	4.87	-71.811	-3.27	-128.74	198.10	188.38	9.72	20.374	
1,500.00	1,494.45	1,500.97	1,500.83	5.25	5.21	-71.659	-7.50	-127.42	208.14	197.73	10.42	19.983	
1,600.00	1,593.57	1,602.76	1,602.43	5.62	5.55	-71.909	-13.46	-125.56	217.15	206.04	11.11	19.538	
1,700.00	1,692.69	1,704.68	1,704.03	5.99	5.90	-72.517	-21.16	-123.15	225.15	213.33	11.82	19.054	
1,800.00	1,791.81	1,806.68	1,805.54	6.36	6.24	-73.454	-30.59	-120.21	232.17	219.64	12.52	18.540	
1,900.00	1,890.93	1,906.62	1,904.91	6.73	6.58	-74.511	-40.84	-117.01	238.66	225.43	13.23	18.042	
2,000.00	1,990.05	2,006.31	2,004.02	7.10	6.93	-75.508	-51.07	-113.81	245.22	231.28	13.94	17.596	
2,100.00	2,089.17	2,106.01	2,103.14	7.47	7.28	-76.453	-61.31	-110.61	251.85	237.20	14.65	17.196	
2,200.00	2,188.29	2,205.70	2,202.26	7.84	7.63	-77.349	-71.55	-107.42	258.55	243.19	15.36	16.834	
2,300.00	2,287.41	2,305.40	2,301.37	8.21	7.98	-78.200	-81.78	-104.22	265.30	249.23	16.07	16.505	
2,400.00	2,386.53	2,405.09	2,400.49	8.58	8.33	-79.008	-92.02	-101.02	272.12	255.33	16.79	16.206	
2,500.00	2,485.66	2,504.79	2,499.61	8.95	8.69	-79.776	-102.25	-97.83	278.98	261.47	17.51	15.934	
2,600.00	2,584.78	2,604.48	2,598.72	9.33	9.04	-80.507	-112.49	-94.63	285.89	267.67	18.23	15.684	
2,700.00	2,683.90	2,704.18	2,697.84	9.70	9.40	-81.203	-122.72	-91.43	292.85	273.90	18.95	15.454	
2,800.00	2,783.02	2,803.87	2,796.96	10.07	9.75	-81.867	-132.96	-88.24	299.85	280.18	19.67	15.242	
2,900.00	2,882.14	2,903.57	2,896.07	10.44	10.11	-82.501	-143.20	-85.04	306.89	286.49	20.40	15.046	
3,000.00	2,981.26	3,003.26	2,995.19	10.81	10.47	-83.106	-153.43	-81.84	313.96	292.84	21.12	14.865	
3,100.00	3,080.38	3,102.96	3,094.31	11.19	10.83	-83.684	-163.67	-78.65	321.07	299.22	21.85	14.697	
3,200.00	3,179.50	3,202.66	3,193.42	11.56	11.19	-84.237	-173.90	-75.45	328.21	305.64	22.57	14.540	
3,300.00	3,278.62	3,302.35	3,292.54	11.93	11.55	-84.766	-184.14	-72.25	335.38	312.08	23.30	14.394	
3,400.00	3,377.74	3,402.05	3,391.66	12.30	11.91	-85.273	-194.38	-69.06	342.58	318.55	24.03	14.258	
3,500.00	3,476.86	3,501.74	3,490.77	12.67	12.27	-85.760	-204.61	-65.86	349.80	325.04	24.76	14.130	
3,600.00	3,575.98	3,601.44	3,589.89	13.05	12.64	-86.226	-214.85	-62.66	357.04	331.56	25.48	14.010	
3,700.00	3,675.11	3,701.13	3,689.01	13.42	13.00	-86.674	-225.08	-59.47	364.31	338.10	26.21	13.898	
3,800.00	3,774.23	3,800.83	3,788.13	13.79	13.36	-87.104	-235.32	-56.27	371.61	344.66	26.94	13.792	
3,900.00	3,873.35	3,900.52	3,887.24	14.16	13.72	-87.518	-245.56	-53.07	378.92	351.24	27.67	13.692	
4,000.00	3,972.47	4,000.22	3,986.36	14.54	14.09	-87.916	-255.79	-49.88	386.25	357.84	28.41	13.598	
4,100.00	4,071.59	4,099.91	4,085.48	14.91	14.45	-88.299	-266.03	-46.68	393.60	364.46	29.14	13.509	
4,200.00	4,170.71	4,199.61	4,184.59	15.28	14.81	-88.668	-276.26	-43.48	400.96	371.09	29.87	13.424	
4,300.00	4,269.83	4,299.30	4,283.71	15.65	15.18	-89.024	-286.50	-40.29	408.34	377.74	30.60	13.345	
4,400.00	4,368.95	4,399.00	4,382.83	16.03	15.54	-89.367	-296.74	-37.09	415.74	384.41	31.33	13.269	
4,500.00	4,468.07	4,498.69	4,481.94	16.40	15.91	-89.698	-306.97	-33.89	423.15	391.09	32.07	13.197	
4,600.00	4,567.19	4,598.39	4,581.06	16.77	16.27	-90.018	-317.21	-30.70	430.58	397.78	32.80	13.128	
4,700.00	4,666.31	4,698.08	4,680.18	17.14	16.64	-90.326	-327.44	-27.50	438.02	404.49	33.53	13.063	
4,800.00	4,765.44	4,797.78	4,779.29	17.52	17.00	-90.625	-337.68	-24.30	445.47	411.21	34.26	13.001	
4,900.00	4,864.56	4,897.47	4,878.41	17.89	17.37	-90.913	-347.92	-21.11	452.93	417.93	35.00	12.942	
5,000.00	4,963.68	4,997.17	4,977.53	18.26	17.73	-91.193	-358.15	-17.91	460.41	424.68	35.73	12.885	

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

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 123H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,062.80	5,096.86	5,076.64	18.64	18.10	-91.463	-368.39	-14.71	467.89	431.43	36.47	12.831	
5,200.00	5,161.92	5,196.56	5,175.76	19.01	18.46	-91.725	-378.62	-11.52	475.39	438.19	37.20	12.779	
5,300.00	5,261.04	5,296.25	5,274.88	19.38	18.83	-91.978	-388.86	-8.32	482.89	444.96	37.93	12.730	
5,400.00	5,360.16	5,395.95	5,373.99	19.75	19.20	-92.224	-399.10	-5.12	490.41	451.74	38.67	12.682	
5,500.00	5,459.28	5,495.65	5,473.11	20.13	19.56	-92.462	-409.33	-1.93	497.93	458.53	39.40	12.637	
5,600.00	5,558.40	5,595.34	5,572.23	20.50	19.93	-92.694	-419.57	1.27	505.46	465.32	40.14	12.593	
5,700.00	5,657.52	5,695.04	5,671.34	20.87	20.29	-92.918	-429.80	4.47	513.00	472.13	40.87	12.551	
5,800.00	5,756.64	5,794.73	5,770.46	21.25	20.66	-93.136	-440.04	7.66	520.55	478.94	41.61	12.511	
5,900.00	5,855.76	5,894.43	5,869.58	21.62	21.03	-93.348	-450.28	10.86	528.10	485.76	42.34	12.472	
6,000.00	5,954.89	5,992.24	5,966.89	21.99	21.38	-93.470	-459.74	13.82	535.81	492.75	43.07	12.441	
6,100.00	6,054.01	6,089.70	6,064.00	22.36	21.74	-93.417	-467.61	16.27	543.93	500.15	43.78	12.423	
6,200.00	6,153.13	6,187.05	6,161.13	22.74	22.09	-93.199	-473.89	18.24	552.46	507.97	44.49	12.417	
6,300.00	6,252.25	6,284.25	6,258.19	23.11	22.44	-92.824	-478.59	19.70	561.41	516.21	45.20	12.421	
6,400.00	6,351.50	6,381.34	6,355.23	23.48	22.79	-92.366	-481.72	20.68	570.01	524.12	45.90	12.420	
6,500.00	6,450.95	6,478.36	6,452.24	23.85	23.13	-91.871	-483.28	21.17	577.74	531.15	46.59	12.401	
6,600.00	6,550.57	6,576.70	6,550.57	24.21	23.46	-91.360	-483.47	21.23	584.53	537.27	47.27	12.367	
6,700.00	6,650.33	6,676.45	6,650.33	24.57	23.79	-90.944	-483.47	21.23	590.05	542.11	47.94	12.307	
6,800.00	6,750.19	6,776.31	6,750.19	24.93	24.12	-90.637	-483.47	21.23	594.21	545.59	48.62	12.221	
6,900.00	6,850.13	6,876.25	6,850.13	25.29	24.44	-90.435	-483.47	21.23	597.00	547.69	49.30	12.108	
7,000.00	6,950.11	6,976.24	6,950.11	25.64	24.77	-90.334	-483.47	21.23	598.39	548.40	49.99	11.971	
7,100.00	7,050.11	7,076.24	7,050.11	25.97	25.10	-90.322	-483.47	21.23	598.56	547.92	50.65	11.819	
7,200.00	7,150.11	7,176.24	7,150.11	26.29	25.44	-90.322	-483.47	21.23	598.56	547.27	51.30	11.668	
7,300.00	7,250.11	7,276.24	7,250.11	26.61	25.77	-90.322	-483.47	21.23	598.56	546.61	51.95	11.521	
7,400.00	7,350.11	7,376.24	7,350.11	26.93	26.10	-90.322	-483.47	21.23	598.56	545.95	52.61	11.377	
7,500.00	7,450.11	7,476.24	7,450.11	27.26	26.43	-90.322	-483.47	21.23	598.56	545.29	53.27	11.236	
7,600.00	7,550.11	7,576.24	7,550.11	27.58	26.77	-90.322	-483.47	21.23	598.56	544.63	53.93	11.099	
7,700.00	7,650.11	7,676.24	7,650.11	27.91	27.10	-90.322	-483.47	21.23	598.56	543.97	54.59	10.964	
7,800.00	7,750.11	7,776.24	7,750.11	28.23	27.44	-90.322	-483.47	21.23	598.56	543.31	55.25	10.833	
7,900.00	7,850.11	7,876.24	7,850.11	28.56	27.77	-90.322	-483.47	21.23	598.56	542.65	55.92	10.704	
8,000.00	7,950.11	7,976.24	7,950.11	28.89	28.11	-90.322	-483.47	21.23	598.56	541.98	56.58	10.578	
8,100.00	8,050.11	8,076.24	8,050.11	29.22	28.44	-90.322	-483.47	21.23	598.56	541.31	57.25	10.455	
8,200.00	8,150.11	8,176.24	8,150.11	29.55	28.78	-90.322	-483.47	21.23	598.56	540.65	57.92	10.334	
8,300.00	8,250.11	8,276.24	8,250.11	29.88	29.12	-90.322	-483.47	21.23	598.56	539.98	58.59	10.216	
8,400.00	8,350.11	8,376.24	8,350.11	30.21	29.46	-90.322	-483.47	21.23	598.56	539.31	59.26	10.101	
8,500.00	8,450.11	8,476.24	8,450.11	30.54	29.80	-90.322	-483.47	21.23	598.56	538.63	59.93	9.988	
8,600.00	8,550.11	8,576.24	8,550.11	30.87	30.13	-90.322	-483.47	21.23	598.56	537.96	60.60	9.877	
8,700.00	8,650.11	8,676.24	8,650.11	31.20	30.47	-90.322	-483.47	21.23	598.56	537.29	61.28	9.768	
8,800.00	8,750.11	8,776.24	8,750.11	31.54	30.81	-90.322	-483.47	21.23	598.56	536.61	61.95	9.662	
8,900.00	8,850.11	8,876.24	8,850.11	31.87	31.15	-90.322	-483.47	21.23	598.56	535.94	62.62	9.558	
9,000.00	8,950.11	8,976.24	8,950.11	32.20	31.50	-90.322	-483.47	21.23	598.56	535.26	63.30	9.456	
9,100.00	9,050.11	9,076.24	9,050.11	32.54	31.84	-90.322	-483.47	21.23	598.56	534.59	63.98	9.356	
9,200.00	9,150.11	9,176.24	9,150.11	32.88	32.18	-90.322	-483.47	21.23	598.56	533.91	64.66	9.258	
9,204.45	9,154.56	9,180.69	9,154.56	32.89	32.19	-90.323	-483.47	21.23	598.57	533.88	64.69	9.253	
9,300.00	9,249.97	9,281.32	9,254.86	33.21	32.53	-90.032	-476.77	21.58	598.69	533.33	65.36	9.160	
9,400.00	9,347.83	9,386.71	9,356.95	33.53	32.87	-89.486	-451.28	22.91	599.92	533.90	66.02	9.087	
9,500.00	9,440.75	9,491.07	9,451.77	33.82	33.18	-88.834	-408.07	25.18	602.38	535.76	66.62	9.041	
9,600.00	9,525.90	9,594.28	9,536.29	34.07	33.45	-88.168	-349.18	28.26	606.01	538.85	67.16	9.023	
9,700.00	9,600.68	9,696.25	9,608.09	34.28	33.68	-87.578	-277.06	32.04	610.72	543.09	67.63	9.031	
9,800.00	9,662.84	9,796.96	9,665.35	34.44	33.88	-87.133	-194.48	36.37	616.37	548.36	68.02	9.062	
9,900.00	9,710.48	9,896.44	9,706.85	34.56	34.04	-86.880	-104.34	41.10	622.81	554.48	68.33	9.115	

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

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 123H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,000.00	9,742.15	9,994.76	9,731.94	34.64	34.17	-86.838	-9.52	46.06	629.82	561.25	68.56	9.186	
10,100.00	9,756.90	10,091.81	9,740.45	34.70	34.26	-87.016	86.90	51.12	637.18	568.45	68.73	9.270	
10,200.00	9,758.31	10,173.25	9,740.87	34.75	34.34	-88.645	168.28	54.19	645.17	576.27	68.91	9.363	
10,300.00	9,758.83	10,258.13	9,741.32	34.82	34.43	-89.957	253.15	54.93	652.69	583.58	69.11	9.444	
10,400.00	9,759.35	10,353.58	9,741.82	34.92	34.55	-90.342	348.60	54.34	658.23	588.87	69.36	9.490	
10,500.00	9,759.88	10,453.56	9,742.34	35.05	34.71	-90.342	448.57	53.73	660.31	590.65	69.66	9.479	
10,600.00	9,760.40	10,553.56	9,742.86	35.21	34.88	-90.342	548.57	53.12	660.32	590.33	69.99	9.434	
10,700.00	9,760.92	10,653.56	9,743.39	35.39	35.07	-90.342	648.57	52.51	660.32	589.95	70.37	9.383	
10,800.00	9,761.44	10,753.56	9,743.91	35.59	35.29	-90.342	748.56	51.90	660.32	589.53	70.79	9.328	
10,900.00	9,761.96	10,853.56	9,744.43	35.82	35.52	-90.342	848.56	51.29	660.32	589.07	71.25	9.268	
11,000.00	9,762.48	10,953.56	9,744.96	36.06	35.77	-90.342	948.56	50.68	660.32	588.57	71.74	9.204	
11,100.00	9,763.01	11,053.56	9,745.48	36.33	36.04	-90.342	1,048.56	50.06	660.32	588.04	72.28	9.136	
11,200.00	9,763.53	11,153.56	9,746.01	36.61	36.33	-90.342	1,148.55	49.45	660.31	587.46	72.85	9.064	
11,300.00	9,764.05	11,253.56	9,746.53	36.91	36.64	-90.342	1,248.55	48.84	660.31	586.86	73.46	8.989	
11,400.00	9,764.57	11,353.56	9,747.05	37.23	36.97	-90.342	1,348.55	48.23	660.31	586.21	74.10	8.911	
11,500.00	9,765.09	11,453.56	9,747.58	37.57	37.31	-90.342	1,448.54	47.62	660.31	585.53	74.78	8.830	
11,600.00	9,765.61	11,553.56	9,748.10	37.92	37.67	-90.342	1,548.54	47.01	660.31	584.82	75.49	8.747	
11,700.00	9,766.13	11,653.56	9,748.62	38.29	38.05	-90.342	1,648.54	46.40	660.31	584.07	76.24	8.661	
11,800.00	9,766.66	11,753.56	9,749.15	38.67	38.44	-90.342	1,748.53	45.78	660.31	583.30	77.01	8.574	
11,900.00	9,767.18	11,853.56	9,749.67	39.07	38.85	-90.342	1,848.53	45.17	660.31	582.49	77.82	8.485	
12,000.00	9,767.70	11,953.56	9,750.19	39.49	39.28	-90.342	1,948.53	44.56	660.31	581.65	78.66	8.395	
12,100.00	9,768.22	12,053.56	9,750.72	39.92	39.71	-90.342	2,048.52	43.95	660.31	580.78	79.52	8.303	
12,200.00	9,768.74	12,153.56	9,751.24	40.36	40.16	-90.342	2,148.52	43.34	660.31	579.89	80.42	8.211	
12,300.00	9,769.26	12,253.56	9,751.76	40.82	40.63	-90.342	2,248.52	42.73	660.30	578.97	81.34	8.118	
12,400.00	9,769.78	12,353.56	9,752.29	41.29	41.11	-90.342	2,348.51	42.12	660.30	578.02	82.29	8.024	
12,500.00	9,770.31	12,453.56	9,752.81	41.78	41.60	-90.342	2,448.51	41.50	660.30	577.04	83.26	7.931	
12,600.00	9,770.83	12,553.56	9,753.34	42.27	42.10	-90.342	2,548.51	40.89	660.30	576.05	84.26	7.837	
12,700.00	9,771.35	12,653.56	9,753.86	42.78	42.61	-90.342	2,648.50	40.28	660.30	575.02	85.28	7.743	
12,800.00	9,771.87	12,753.56	9,754.38	43.30	43.14	-90.342	2,748.50	39.67	660.30	573.98	86.32	7.649	
12,900.00	9,772.39	12,853.56	9,754.91	43.83	43.68	-90.342	2,848.50	39.06	660.30	572.91	87.39	7.556	
13,000.00	9,772.91	12,953.56	9,755.43	44.37	44.22	-90.342	2,948.49	38.45	660.30	571.83	88.47	7.463	
13,100.00	9,773.43	13,053.56	9,755.95	44.92	44.78	-90.342	3,048.49	37.84	660.30	570.72	89.58	7.371	
13,200.00	9,773.96	13,153.56	9,756.48	45.48	45.35	-90.342	3,148.49	37.22	660.30	569.59	90.70	7.280	
13,300.00	9,774.48	13,253.56	9,757.00	46.05	45.92	-90.342	3,248.48	36.61	660.30	568.45	91.85	7.189	
13,400.00	9,775.00	13,353.56	9,757.52	46.63	46.51	-90.342	3,348.48	36.00	660.29	567.28	93.01	7.099	
13,500.00	9,775.52	13,453.56	9,758.05	47.21	47.10	-90.342	3,448.48	35.39	660.29	566.10	94.19	7.010	
13,600.00	9,776.04	13,553.56	9,758.57	47.81	47.70	-90.342	3,548.47	34.78	660.29	564.90	95.39	6.922	
13,700.00	9,776.56	13,653.56	9,759.10	48.41	48.31	-90.342	3,648.47	34.17	660.29	563.69	96.61	6.835	
13,800.00	9,777.08	13,753.56	9,759.62	49.03	48.93	-90.342	3,748.47	33.56	660.29	562.46	97.83	6.749	
13,900.00	9,777.61	13,853.56	9,760.14	49.65	49.56	-90.342	3,848.46	32.94	660.29	561.21	99.08	6.664	
14,000.00	9,778.13	13,953.56	9,760.67	50.27	50.19	-90.342	3,948.46	32.33	660.29	559.95	100.34	6.581	
14,100.00	9,778.65	14,053.56	9,761.19	50.91	50.83	-90.342	4,048.46	31.72	660.29	558.68	101.61	6.498	
14,200.00	9,779.17	14,153.56	9,761.71	51.55	51.47	-90.342	4,148.45	31.11	660.29	557.39	102.90	6.417	
14,300.00	9,779.69	14,253.56	9,762.24	52.19	52.13	-90.342	4,248.45	30.50	660.29	556.09	104.20	6.337	
14,400.00	9,780.21	14,353.56	9,762.76	52.85	52.78	-90.342	4,348.45	29.89	660.29	554.78	105.51	6.258	
14,500.00	9,780.73	14,453.56	9,763.28	53.51	53.45	-90.342	4,448.45	29.27	660.29	553.45	106.83	6.181	
14,600.00	9,781.26	14,553.56	9,763.81	54.17	54.12	-90.342	4,548.44	28.66	660.28	552.12	108.17	6.104	
14,700.00	9,781.78	14,653.56	9,764.33	54.84	54.79	-90.342	4,648.44	28.05	660.28	550.77	109.51	6.029	
14,800.00	9,782.30	14,753.56	9,764.85	55.52	55.48	-90.342	4,748.44	27.44	660.28	549.41	110.87	5.955	
14,900.00	9,782.82	14,853.56	9,765.38	56.20	56.16	-90.342	4,848.43	26.83	660.28	548.04	112.24	5.883	
15,000.00	9,783.34	14,953.56	9,765.90	56.89	56.85	-90.342	4,948.43	26.22	660.28	546.67	113.62	5.812	

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

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 123H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,100.00	9,783.86	15,053.56	9,766.43	57.58	57.55	-90.342	5,048.43	25.61	660.28	545.28	115.00	5.741	
15,200.00	9,784.38	15,153.56	9,766.95	58.28	58.25	-90.342	5,148.42	24.99	660.28	543.88	116.40	5.673	
15,300.00	9,784.91	15,253.56	9,767.47	58.98	58.95	-90.342	5,248.42	24.38	660.28	542.47	117.80	5.605	
15,400.00	9,785.43	15,353.56	9,768.00	59.68	59.66	-90.342	5,348.42	23.77	660.28	541.06	119.22	5.538	
15,500.00	9,785.95	15,453.56	9,768.52	60.39	60.38	-90.342	5,448.41	23.16	660.28	539.64	120.64	5.473	
15,600.00	9,786.47	15,553.56	9,769.04	61.10	61.09	-90.342	5,548.41	22.55	660.28	538.21	122.07	5.409	
15,700.00	9,786.99	15,653.56	9,769.57	61.82	61.81	-90.342	5,648.41	21.94	660.27	536.77	123.51	5.346	
15,800.00	9,787.51	15,753.56	9,770.09	62.54	62.54	-90.342	5,748.40	21.33	660.27	535.32	124.95	5.284	
15,900.00	9,788.03	15,853.56	9,770.61	63.27	63.27	-90.342	5,848.40	20.71	660.27	533.87	126.41	5.223	
16,000.00	9,788.56	15,953.56	9,771.14	63.99	64.00	-90.342	5,948.40	20.10	660.27	532.41	127.86	5.164	
16,100.00	9,789.08	16,053.56	9,771.66	64.73	64.73	-90.342	6,048.39	19.49	660.27	530.94	129.33	5.105	
16,200.00	9,789.60	16,153.56	9,772.18	65.46	65.47	-90.342	6,148.39	18.88	660.27	529.47	130.80	5.048	
16,300.00	9,790.12	16,253.56	9,772.71	66.20	66.21	-90.342	6,248.39	18.27	660.27	527.99	132.28	4.991	
16,400.00	9,790.64	16,353.56	9,773.23	66.94	66.96	-90.342	6,348.38	17.66	660.27	526.50	133.77	4.936	
16,500.00	9,791.16	16,453.56	9,773.76	67.68	67.70	-90.342	6,448.38	17.05	660.27	525.01	135.26	4.882	
16,600.00	9,791.68	16,553.56	9,774.28	68.43	68.45	-90.342	6,548.38	16.43	660.27	523.51	136.76	4.828	
16,700.00	9,792.21	16,653.56	9,774.80	69.18	69.21	-90.342	6,648.37	15.82	660.27	522.01	138.26	4.776	
16,800.00	9,792.73	16,753.56	9,775.33	69.93	69.96	-90.342	6,748.37	15.21	660.26	520.50	139.77	4.724	
16,900.00	9,793.25	16,853.56	9,775.85	70.69	70.72	-90.342	6,848.37	14.60	660.26	518.99	141.28	4.674	
17,000.00	9,793.77	16,953.56	9,776.37	71.45	71.48	-90.342	6,948.36	13.99	660.26	517.47	142.80	4.624	
17,100.00	9,794.29	17,053.56	9,776.90	72.21	72.24	-90.342	7,048.36	13.38	660.26	515.94	144.32	4.575	
17,200.00	9,794.81	17,153.56	9,777.42	72.97	73.01	-90.342	7,148.36	12.77	660.26	514.42	145.85	4.527	
17,300.00	9,795.33	17,253.56	9,777.94	73.73	73.78	-90.342	7,248.35	12.15	660.26	512.88	147.38	4.480	
17,400.00	9,795.86	17,353.56	9,778.47	74.50	74.55	-90.342	7,348.35	11.54	660.26	511.35	148.91	4.434	
17,500.00	9,796.38	17,453.56	9,778.99	75.27	75.32	-90.342	7,448.35	10.93	660.26	509.80	150.45	4.388	
17,600.00	9,796.90	17,553.56	9,779.51	76.04	76.09	-90.342	7,548.34	10.32	660.26	508.26	152.00	4.344	
17,700.00	9,797.42	17,653.56	9,780.04	76.81	76.87	-90.342	7,648.34	9.71	660.26	506.71	153.55	4.300	
17,800.00	9,797.94	17,753.56	9,780.56	77.59	77.64	-90.342	7,748.34	9.10	660.26	505.16	155.10	4.257	
17,900.00	9,798.46	17,853.56	9,781.09	78.36	78.42	-90.342	7,848.34	8.49	660.25	503.60	156.66	4.215	
18,000.00	9,798.98	17,953.56	9,781.61	79.14	79.20	-90.342	7,948.33	7.87	660.25	502.04	158.22	4.173	
18,100.00	9,799.51	18,053.56	9,782.13	79.92	79.99	-90.342	8,048.33	7.26	660.25	500.47	159.78	4.132	
18,200.00	9,800.03	18,153.56	9,782.66	80.71	80.77	-90.342	8,148.33	6.65	660.25	498.91	161.35	4.092	
18,300.00	9,800.55	18,253.56	9,783.18	81.49	81.56	-90.342	8,248.32	6.04	660.25	497.34	162.92	4.053	
18,400.00	9,801.07	18,353.56	9,783.70	82.28	82.35	-90.342	8,348.32	5.43	660.25	495.76	164.49	4.014	
18,500.00	9,801.59	18,453.56	9,784.23	83.06	83.14	-90.342	8,448.32	4.82	660.25	494.18	166.07	3.976	
18,600.00	9,802.11	18,553.56	9,784.75	83.85	83.93	-90.342	8,548.31	4.21	660.25	492.60	167.65	3.938	
18,700.00	9,802.63	18,653.56	9,785.27	84.64	84.72	-90.342	8,648.31	3.59	660.25	491.02	169.23	3.902	
18,800.00	9,803.16	18,753.56	9,785.80	85.43	85.51	-90.342	8,748.31	2.98	660.25	489.43	170.81	3.865	
18,900.00	9,803.68	18,853.56	9,786.32	86.23	86.31	-90.342	8,848.30	2.37	660.25	487.84	172.40	3.830	
19,000.00	9,804.20	18,953.56	9,786.84	87.02	87.11	-90.342	8,948.30	1.76	660.25	486.25	173.99	3.795	
19,100.00	9,804.72	19,053.56	9,787.37	87.82	87.90	-90.342	9,048.30	1.15	660.24	484.66	175.59	3.760	
19,200.00	9,805.24	19,153.56	9,787.89	88.62	88.70	-90.342	9,148.29	0.54	660.24	483.06	177.18	3.726	
19,300.00	9,805.76	19,253.56	9,788.42	89.42	89.50	-90.342	9,248.29	-0.07	660.24	481.46	178.78	3.693	
19,400.00	9,806.28	19,353.56	9,788.94	90.22	90.31	-90.342	9,348.29	-0.69	660.24	479.86	180.38	3.660	
19,500.00	9,806.81	19,453.56	9,789.46	91.02	91.11	-90.342	9,448.28	-1.30	660.24	478.25	181.99	3.628	
19,600.00	9,807.33	19,553.56	9,789.99	91.82	91.91	-90.342	9,548.28	-1.91	660.24	476.65	183.59	3.596	
19,700.00	9,807.85	19,653.56	9,790.51	92.62	92.72	-90.342	9,648.28	-2.52	660.24	475.04	185.20	3.565	
19,800.00	9,808.37	19,753.56	9,791.03	93.43	93.52	-90.342	9,748.27	-3.13	660.24	473.42	186.81	3.534	
19,900.00	9,808.89	19,853.56	9,791.56	94.23	94.33	-90.342	9,848.27	-3.74	660.24	471.81	188.43	3.504	
20,000.00	9,809.41	19,953.56	9,792.08	95.04	95.14	-90.342	9,948.27	-4.35	660.24	470.19	190.04	3.474	

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 123H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1+SAG+FDIR
Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,073.24	9,809.79	20,026.80	9,792.46	95.63	95.73	-90.342	10,021.51	-4.80	660.24	469.01	191.22	3.453	
20,076.24	9,809.81	20,028.07	9,792.47	95.65	95.74	-90.492	10,022.78	-4.81	660.24	468.98	191.25	3.452 SF	

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 124H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-89.897	0.04	-24.77	24.77				
100.00	100.00	100.00	100.00	0.26	0.26	-89.897	0.04	-24.77	24.77	24.25	0.53	47.014	
200.00	200.00	200.00	200.00	0.62	0.62	-89.897	0.04	-24.77	24.77	23.53	1.24	19.917	
300.00	300.00	300.00	300.00	0.98	0.98	-89.897	0.04	-24.77	24.77	22.81	1.96	12.635	CC
400.00	399.99	399.99	399.99	1.32	1.34	-88.025	0.04	-24.77	25.09	22.43	2.66	9.425	ES
500.00	499.96	499.96	499.96	1.66	1.70	-82.705	0.04	-24.77	26.18	22.82	3.36	7.798	
600.00	599.86	599.86	599.86	2.01	2.06	-74.873	0.04	-24.77	28.45	24.38	4.06	7.005	
700.00	699.68	699.68	699.68	2.36	2.41	-65.993	0.04	-24.77	32.35	27.58	4.77	6.782	
800.00	799.40	799.40	799.40	2.71	2.77	-58.808	0.04	-24.77	38.34	32.86	5.48	6.996	
900.00	899.03	899.03	899.03	3.07	3.13	-54.609	0.04	-24.77	46.32	40.13	6.19	7.481	
1,000.00	998.54	998.54	998.54	3.43	3.48	-52.525	0.04	-24.77	56.01	49.10	6.90	8.113	
1,100.00	1,097.90	1,097.90	1,097.90	3.79	3.84	-51.795	0.04	-24.77	67.26	59.64	7.61	8.833	
1,200.00	1,197.08	1,197.08	1,197.08	4.15	4.20	-51.878	0.04	-24.77	80.00	71.67	8.33	9.608	
1,300.00	1,296.21	1,297.75	1,297.74	4.52	4.54	-51.990	-0.31	-24.02	92.42	83.40	9.03	10.238	
1,400.00	1,395.33	1,398.85	1,398.81	4.89	4.89	-51.854	-1.41	-21.65	103.15	93.43	9.72	10.611	
1,500.00	1,494.45	1,500.30	1,500.16	5.25	5.23	-51.532	-3.28	-17.64	112.16	101.74	10.42	10.767	
1,600.00	1,593.57	1,602.03	1,601.70	5.62	5.58	-51.051	-5.92	-12.00	119.46	108.34	11.12	10.746	
1,700.00	1,692.69	1,703.97	1,703.32	5.99	5.93	-50.417	-9.32	-4.70	125.05	113.23	11.82	10.582	
1,800.00	1,791.81	1,806.07	1,804.94	6.36	6.29	-49.624	-13.50	4.25	128.93	116.41	12.52	10.300	
1,900.00	1,890.93	1,908.26	1,906.46	6.73	6.64	-48.652	-18.45	14.84	131.13	117.91	13.22	9.921	
2,000.00	1,990.05	2,010.47	2,007.77	7.10	7.00	-47.473	-24.16	27.08	131.65	117.73	13.92	9.461	
2,100.00	2,089.17	2,112.64	2,108.78	7.47	7.37	-46.043	-30.63	40.95	130.54	115.92	14.61	8.933	
2,200.00	2,188.29	2,214.70	2,209.40	7.84	7.73	-44.301	-37.86	56.43	127.83	112.52	15.31	8.350	
2,300.00	2,287.41	2,316.59	2,309.54	8.21	8.10	-42.159	-45.83	73.50	123.59	107.58	16.00	7.722	
2,400.00	2,386.53	2,416.55	2,407.57	8.58	8.46	-39.714	-54.09	91.20	118.55	101.83	16.72	7.091	
2,500.00	2,485.66	2,516.29	2,505.39	8.95	8.83	-37.066	-62.34	108.87	113.73	96.29	17.44	6.522	
2,600.00	2,584.78	2,616.03	2,603.20	9.33	9.20	-34.194	-70.58	126.54	109.17	91.01	18.16	6.011	
2,700.00	2,683.90	2,715.78	2,701.02	9.70	9.57	-31.086	-78.83	144.21	104.90	86.01	18.89	5.553	
2,800.00	2,783.02	2,815.52	2,798.84	10.07	9.94	-27.732	-87.08	161.88	100.96	81.33	19.63	5.144	
2,900.00	2,882.14	2,915.26	2,896.66	10.44	10.31	-24.127	-95.32	179.55	97.38	77.01	20.37	4.780	
3,000.00	2,981.26	3,015.01	2,994.48	10.81	10.68	-20.273	-103.57	197.22	94.22	73.10	21.12	4.461	
3,100.00	3,080.38	3,114.75	3,092.30	11.19	11.05	-16.183	-111.82	214.89	91.51	69.63	21.88	4.182	
3,200.00	3,179.50	3,214.49	3,190.11	11.56	11.43	-11.879	-120.07	232.56	89.30	66.65	22.65	3.942	
3,300.00	3,278.62	3,314.23	3,287.93	11.93	11.80	-7.396	-128.31	250.22	87.61	64.19	23.43	3.740	
3,400.00	3,377.74	3,413.98	3,385.75	12.30	12.18	-2.781	-136.56	267.89	86.49	62.28	24.21	3.572	
3,500.00	3,476.86	3,513.72	3,483.57	12.67	12.55	1.912	-144.81	285.56	85.96	60.96	25.00	3.438	
3,539.98	3,516.49	3,553.60	3,522.68	12.82	12.71	3.795	-148.11	292.63	85.91	60.59	25.32	3.393	
3,600.00	3,575.98	3,613.46	3,581.39	13.05	12.93	6.619	-153.06	303.23	86.02	60.23	25.79	3.335	
3,700.00	3,675.11	3,713.21	3,679.21	13.42	13.31	11.279	-161.30	320.90	86.67	60.09	26.58	3.261	
3,800.00	3,774.23	3,812.95	3,777.02	13.79	13.69	15.831	-169.55	338.57	87.91	60.54	27.37	3.212	
3,900.00	3,873.35	3,912.69	3,874.84	14.16	14.07	20.225	-177.80	356.24	89.70	61.55	28.15	3.187	
4,000.00	3,972.47	4,012.43	3,972.66	14.54	14.45	24.420	-186.04	373.91	92.02	63.09	28.93	3.181	
4,100.00	4,071.59	4,112.18	4,070.48	14.91	14.83	28.389	-194.29	391.58	94.82	65.13	29.69	3.193	
4,200.00	4,170.71	4,211.92	4,168.30	15.28	15.21	32.113	-202.54	409.25	98.07	67.61	30.46	3.220	
4,300.00	4,269.83	4,311.66	4,266.12	15.65	15.59	35.586	-210.79	426.92	101.72	70.51	31.21	3.259	
4,400.00	4,368.95	4,411.41	4,363.93	16.03	15.97	38.810	-219.03	444.58	105.73	73.77	31.96	3.308	
4,500.00	4,468.07	4,511.15	4,461.75	16.40	16.35	41.792	-227.28	462.25	110.06	77.36	32.70	3.365	
4,600.00	4,567.19	4,610.89	4,559.57	16.77	16.73	44.545	-235.53	479.92	114.68	81.23	33.44	3.429	
4,700.00	4,666.31	4,710.63	4,657.39	17.14	17.11	47.081	-243.77	497.59	119.54	85.36	34.18	3.498	
4,800.00	4,765.44	4,810.38	4,755.21	17.52	17.49	49.418	-252.02	515.26	124.63	89.72	34.91	3.570	
4,900.00	4,864.56	4,910.12	4,853.03	17.89	17.88	51.571	-260.27	532.93	129.92	94.28	35.64	3.645	

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

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 124H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,963.68	5,009.86	4,950.84	18.26	18.26	53.555	-268.52	550.60	135.38	99.01	36.37	3.722	
5,100.00	5,062.80	5,109.61	5,048.66	18.64	18.64	55.385	-276.76	568.27	140.99	103.89	37.10	3.800	
5,200.00	5,161.92	5,209.35	5,146.48	19.01	19.02	57.075	-285.01	585.94	146.74	108.91	37.82	3.879	
5,300.00	5,261.04	5,309.09	5,244.30	19.38	19.41	58.638	-293.26	603.61	152.60	114.05	38.55	3.959	
5,400.00	5,360.16	5,408.84	5,342.12	19.75	19.79	60.086	-301.50	621.28	158.58	119.30	39.27	4.038	
5,500.00	5,459.28	5,508.58	5,439.94	20.13	20.17	61.429	-309.75	638.94	164.65	124.65	40.00	4.116	
5,600.00	5,558.40	5,608.32	5,537.75	20.50	20.56	62.677	-318.00	656.61	170.80	130.08	40.72	4.194	
5,700.00	5,657.52	5,708.06	5,635.57	20.87	20.94	63.839	-326.25	674.28	177.03	135.58	41.45	4.271	
5,800.00	5,756.64	5,807.81	5,733.39	21.25	21.32	64.922	-334.49	691.95	183.33	141.15	42.17	4.347	
5,900.00	5,855.76	5,907.55	5,831.21	21.62	21.71	65.933	-342.74	709.62	189.69	146.79	42.90	4.422	
6,000.00	5,954.89	6,007.29	5,929.03	21.99	22.09	66.879	-350.99	727.29	196.10	152.48	43.62	4.495	
6,100.00	6,054.01	6,107.04	6,026.85	22.36	22.48	67.766	-359.23	744.96	202.57	158.22	44.35	4.568	
6,200.00	6,153.13	6,206.78	6,124.67	22.74	22.86	68.598	-367.48	762.63	209.08	164.01	45.07	4.639	
6,300.00	6,252.25	6,306.52	6,222.48	23.11	23.24	69.382	-375.73	780.30	215.64	169.84	45.80	4.708	
6,400.00	6,351.50	6,406.19	6,320.23	23.48	23.63	70.341	-383.97	797.95	222.82	176.31	46.52	4.790	
6,500.00	6,450.95	6,505.73	6,417.85	23.85	24.01	71.594	-392.20	815.59	231.08	183.86	47.22	4.894	
6,600.00	6,550.57	6,605.09	6,515.29	24.21	24.40	73.093	-400.42	833.19	240.48	192.56	47.91	5.019	
6,700.00	6,650.33	6,704.26	6,612.55	24.57	24.78	74.790	-408.62	850.76	251.11	202.52	48.59	5.168	
6,800.00	6,750.19	6,803.20	6,709.58	24.93	25.16	76.639	-416.80	868.28	263.07	213.80	49.26	5.340	
6,900.00	6,850.13	6,901.87	6,806.35	25.29	25.54	78.593	-424.96	885.76	276.44	226.51	49.92	5.537	
7,000.00	6,950.11	7,001.29	6,903.86	25.64	25.92	80.630	-433.15	903.33	291.25	240.66	50.59	5.757	
7,100.00	7,050.11	7,104.16	7,004.99	25.97	26.32	82.605	-441.09	920.34	306.42	255.15	51.27	5.976	
7,200.00	7,150.11	7,207.63	7,107.05	26.29	26.71	84.254	-448.30	935.79	320.51	268.56	51.95	6.170	
7,300.00	7,250.11	7,311.70	7,209.99	26.61	27.10	85.608	-454.77	949.64	333.25	280.63	52.62	6.333	
7,400.00	7,350.11	7,416.30	7,313.72	26.93	27.49	86.715	-460.47	961.85	344.56	291.26	53.30	6.465	
7,500.00	7,450.11	7,521.36	7,418.13	27.26	27.87	87.610	-465.39	972.38	354.36	300.38	53.97	6.566	
7,600.00	7,550.11	7,626.81	7,523.13	27.58	28.25	88.321	-469.51	981.21	362.59	307.95	54.64	6.636	
7,700.00	7,650.11	7,732.59	7,628.62	27.91	28.63	88.868	-472.82	988.31	369.22	313.93	55.30	6.677	
7,800.00	7,750.11	7,838.63	7,734.49	28.23	29.01	89.266	-475.31	993.65	374.22	318.27	55.95	6.689	
7,900.00	7,850.11	7,944.84	7,840.63	28.56	29.38	89.526	-476.98	997.22	377.57	320.98	56.59	6.672	
8,000.00	7,950.11	8,051.17	7,946.94	28.89	29.74	89.654	-477.81	999.00	379.24	322.02	57.22	6.628	
8,100.00	8,050.11	8,154.34	8,050.11	29.22	30.08	89.670	-477.92	999.23	379.45	321.59	57.86	6.558	
8,200.00	8,150.11	8,254.34	8,150.11	29.55	30.40	89.670	-477.92	999.23	379.45	320.93	58.52	6.484	
8,300.00	8,250.11	8,354.34	8,250.11	29.88	30.73	89.670	-477.92	999.23	379.45	320.27	59.18	6.412	
8,400.00	8,350.11	8,454.34	8,350.11	30.21	31.05	89.670	-477.92	999.23	379.45	319.61	59.84	6.341	
8,500.00	8,450.11	8,554.34	8,450.11	30.54	31.38	89.670	-477.92	999.23	379.45	318.94	60.51	6.271	
8,600.00	8,550.11	8,654.34	8,550.11	30.87	31.71	89.670	-477.92	999.23	379.45	318.28	61.17	6.203	
8,700.00	8,650.11	8,754.34	8,650.11	31.20	32.04	89.670	-477.92	999.23	379.45	317.61	61.84	6.136	
8,800.00	8,750.11	8,854.34	8,750.11	31.54	32.37	89.670	-477.92	999.23	379.45	316.94	62.51	6.070	
8,900.00	8,850.11	8,954.34	8,850.11	31.87	32.70	89.670	-477.92	999.23	379.45	316.28	63.18	6.006	
9,000.00	8,950.11	9,054.34	8,950.11	32.20	33.03	89.670	-477.92	999.23	379.45	315.61	63.85	5.943	
9,100.00	9,050.11	9,154.34	9,050.11	32.54	33.36	89.670	-477.92	999.23	379.45	314.93	64.52	5.881	
9,200.00	9,150.11	9,254.34	9,150.11	32.88	33.69	89.670	-477.92	999.23	379.45	314.26	65.19	5.821	
9,300.00	9,249.97	9,352.22	9,247.95	33.21	34.01	89.975	-476.27	999.34	379.10	313.24	65.86	5.756	
9,400.00	9,347.83	9,448.00	9,342.40	33.53	34.32	90.675	-461.11	1,000.40	377.72	311.21	66.51	5.679	
9,500.00	9,440.75	9,544.46	9,433.63	33.82	34.60	91.509	-430.22	1,002.56	375.43	308.33	67.10	5.595	
9,600.00	9,525.90	9,641.70	9,519.04	34.07	34.85	92.392	-384.08	1,005.79	372.30	304.69	67.62	5.506	
9,700.00	9,600.68	9,739.81	9,596.04	34.28	35.06	93.229	-323.62	1,010.01	368.46	300.40	68.06	5.414	
9,800.00	9,662.84	9,838.88	9,662.17	34.44	35.21	93.920	-250.20	1,015.15	364.03	295.62	68.42	5.321	
9,900.00	9,710.48	9,938.96	9,715.11	34.56	35.32	94.376	-165.63	1,021.06	359.17	290.48	68.69	5.229	

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

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 124H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Rule Assigned: Minimum Separation (usft)	Rule Assigned: Separation Factor	Warning
10,000.00	9,742.15	10,040.09	9,752.81	34.64	35.38	94.523	-72.16	1,027.60	354.02	285.15	68.87	5.141	
10,100.00	9,756.90	10,142.27	9,773.60	34.70	35.40	94.320	27.50	1,034.57	348.74	279.77	68.96	5.057	
10,200.00	9,758.31	10,249.35	9,777.67	34.75	35.40	93.144	134.20	1,041.70	343.81	274.72	69.09	4.976	
10,300.00	9,758.83	10,362.72	9,778.26	34.82	35.40	90.877	247.49	1,045.64	338.86	269.52	69.34	4.887	
10,400.00	9,759.35	10,469.72	9,778.82	34.92	35.42	89.665	354.48	1,045.62	333.87	264.27	69.59	4.797	
10,500.00	9,759.88	10,569.69	9,779.35	35.05	35.46	89.666	454.45	1,045.01	331.79	261.92	69.87	4.749	
10,580.50	9,760.30	10,650.19	9,779.77	35.18	35.51	89.666	534.95	1,044.51	331.63	261.51	70.12	4.729	
10,600.00	9,760.40	10,669.69	9,779.87	35.21	35.53	89.666	554.45	1,044.39	331.78	261.59	70.19	4.727	
10,700.00	9,760.92	10,769.69	9,780.39	35.39	35.65	89.666	654.45	1,043.78	331.77	261.23	70.54	4.703	
10,800.00	9,761.44	10,869.69	9,780.92	35.59	35.81	89.666	754.44	1,043.17	331.77	260.83	70.94	4.677	
10,900.00	9,761.96	10,969.69	9,781.44	35.82	36.00	89.666	854.44	1,042.55	331.77	260.39	71.38	4.648	
11,000.00	9,762.48	11,069.69	9,781.96	36.06	36.23	89.666	954.44	1,041.94	331.77	259.91	71.86	4.617	
11,100.00	9,763.01	11,169.69	9,782.49	36.33	36.48	89.666	1,054.43	1,041.32	331.77	259.39	72.38	4.584	
11,200.00	9,763.53	11,269.69	9,783.01	36.61	36.75	89.666	1,154.43	1,040.71	331.76	258.83	72.93	4.549	
11,300.00	9,764.05	11,369.69	9,783.54	36.91	37.04	89.666	1,254.43	1,040.09	331.76	258.24	73.52	4.512	
11,400.00	9,764.57	11,469.69	9,784.06	37.23	37.36	89.666	1,354.42	1,039.48	331.76	257.61	74.15	4.474	
11,500.00	9,765.09	11,569.69	9,784.58	37.57	37.69	89.666	1,454.42	1,038.86	331.76	256.95	74.81	4.435	
11,600.00	9,765.61	11,669.69	9,785.11	37.92	38.03	89.666	1,554.42	1,038.25	331.75	256.25	75.50	4.394	
11,700.00	9,766.13	11,769.69	9,785.63	38.29	38.40	89.666	1,654.41	1,037.63	331.75	255.52	76.23	4.352	
11,800.00	9,766.66	11,869.69	9,786.15	38.67	38.78	89.666	1,754.41	1,037.02	331.75	254.76	76.99	4.309	
11,900.00	9,767.18	11,969.69	9,786.68	39.07	39.17	89.666	1,854.41	1,036.41	331.75	253.97	77.78	4.265	
12,000.00	9,767.70	12,069.69	9,787.20	39.49	39.58	89.666	1,954.40	1,035.79	331.75	253.14	78.60	4.221	
12,100.00	9,768.22	12,169.69	9,787.72	39.92	40.01	89.666	2,054.40	1,035.18	331.74	252.29	79.45	4.175	
12,200.00	9,768.74	12,269.69	9,788.25	40.36	40.45	89.666	2,154.40	1,034.56	331.74	251.41	80.33	4.130	
12,300.00	9,769.26	12,369.69	9,788.77	40.82	40.90	89.666	2,254.39	1,033.95	331.74	250.50	81.24	4.084	
12,400.00	9,769.78	12,469.69	9,789.29	41.29	41.37	89.666	2,354.39	1,033.33	331.74	249.57	82.17	4.037	
12,500.00	9,770.31	12,569.69	9,789.82	41.78	41.85	89.666	2,454.39	1,032.72	331.74	248.61	83.13	3.991	
12,600.00	9,770.83	12,669.69	9,790.34	42.27	42.34	89.666	2,554.38	1,032.10	331.73	247.62	84.11	3.944	
12,700.00	9,771.35	12,769.69	9,790.87	42.78	42.84	89.666	2,654.38	1,031.49	331.73	246.61	85.12	3.897	
12,800.00	9,771.87	12,869.69	9,791.39	43.30	43.35	89.666	2,754.38	1,030.88	331.73	245.58	86.15	3.851	
12,900.00	9,772.39	12,969.69	9,791.91	43.83	43.88	89.666	2,854.37	1,030.26	331.73	244.53	87.20	3.804	
13,000.00	9,772.91	13,069.69	9,792.44	44.37	44.41	89.666	2,954.37	1,029.65	331.73	243.45	88.27	3.758	
13,100.00	9,773.43	13,169.69	9,792.96	44.92	44.96	89.666	3,054.37	1,029.03	331.72	242.36	89.36	3.712	
13,200.00	9,773.96	13,269.69	9,793.48	45.48	45.52	89.666	3,154.36	1,028.42	331.72	241.24	90.48	3.666	
13,300.00	9,774.48	13,369.69	9,794.01	46.05	46.08	89.666	3,254.36	1,027.80	331.72	240.11	91.61	3.621	
13,400.00	9,775.00	13,469.69	9,794.53	46.63	46.66	89.666	3,354.36	1,027.19	331.72	238.96	92.76	3.576	
13,500.00	9,775.52	13,569.69	9,795.05	47.21	47.24	89.666	3,454.35	1,026.57	331.71	237.78	93.93	3.531	
13,600.00	9,776.04	13,669.69	9,795.58	47.81	47.83	89.666	3,554.35	1,025.96	331.71	236.60	95.12	3.487	
13,700.00	9,776.56	13,769.69	9,796.10	48.41	48.43	89.666	3,654.35	1,025.34	331.71	235.39	96.32	3.444	
13,800.00	9,777.08	13,869.69	9,796.62	49.03	49.04	89.666	3,754.34	1,024.73	331.71	234.17	97.54	3.401	
13,900.00	9,777.61	13,969.69	9,797.15	49.65	49.66	89.666	3,854.34	1,024.12	331.71	232.93	98.77	3.358	
14,000.00	9,778.13	14,069.69	9,797.67	50.27	50.28	89.666	3,954.34	1,023.50	331.70	231.68	100.02	3.316	
14,100.00	9,778.65	14,169.69	9,798.20	50.91	50.91	89.666	4,054.34	1,022.89	331.70	230.42	101.28	3.275	
14,200.00	9,779.17	14,269.69	9,798.72	51.55	51.55	89.666	4,154.33	1,022.27	331.70	229.14	102.56	3.234	
14,300.00	9,779.69	14,369.69	9,799.24	52.19	52.19	89.666	4,254.33	1,021.66	331.70	227.85	103.85	3.194	
14,400.00	9,780.21	14,469.69	9,799.77	52.85	52.84	89.666	4,354.33	1,021.04	331.70	226.55	105.15	3.154	
14,500.00	9,780.73	14,569.69	9,800.29	53.51	53.50	89.666	4,454.32	1,020.43	331.69	225.23	106.46	3.116	
14,600.00	9,781.26	14,669.69	9,800.81	54.17	54.16	89.666	4,554.32	1,019.81	331.69	223.90	107.79	3.077	
14,700.00	9,781.78	14,769.69	9,801.34	54.84	54.83	89.666	4,654.32	1,019.20	331.69	222.56	109.13	3.039	
14,800.00	9,782.30	14,869.69	9,801.86	55.52	55.50	89.666	4,754.31	1,018.59	331.69	221.21	110.48	3.002	
14,900.00	9,782.82	14,969.69	9,802.38	56.20	56.18	89.666	4,854.31	1,017.97	331.69	219.85	111.83	2.966	

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

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 124H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,000.00	9,783.34	15,069.69	9,802.91	56.89	56.87	89.666	4,954.31	1,017.36	331.68	218.48	113.20	2.930	
15,100.00	9,783.86	15,169.69	9,803.43	57.58	57.55	89.666	5,054.30	1,016.74	331.68	217.10	114.58	2.895	
15,200.00	9,784.38	15,269.69	9,803.95	58.28	58.25	89.666	5,154.30	1,016.13	331.68	215.71	115.97	2.860	
15,300.00	9,784.91	15,369.69	9,804.48	58.98	58.95	89.666	5,254.30	1,015.51	331.68	214.31	117.37	2.826	
15,400.00	9,785.43	15,469.69	9,805.00	59.68	59.65	89.666	5,354.29	1,014.90	331.67	212.90	118.77	2.792	
15,500.00	9,785.95	15,569.69	9,805.53	60.39	60.36	89.666	5,454.29	1,014.28	331.67	211.48	120.19	2.760	
15,600.00	9,786.47	15,669.69	9,806.05	61.10	61.07	89.666	5,554.29	1,013.67	331.67	210.06	121.61	2.727	
15,700.00	9,786.99	15,769.69	9,806.57	61.82	61.78	89.666	5,654.28	1,013.05	331.67	208.63	123.04	2.696	
15,800.00	9,787.51	15,869.69	9,807.10	62.54	62.50	89.666	5,754.28	1,012.44	331.67	207.19	124.48	2.664	
15,900.00	9,788.03	15,969.69	9,807.62	63.27	63.22	89.666	5,854.28	1,011.83	331.66	205.74	125.93	2.634	
16,000.00	9,788.56	16,069.69	9,808.14	63.99	63.95	89.666	5,954.27	1,011.21	331.66	204.28	127.38	2.604	
16,100.00	9,789.08	16,169.69	9,808.67	64.73	64.68	89.666	6,054.27	1,010.60	331.66	202.82	128.84	2.574	
16,200.00	9,789.60	16,269.69	9,809.19	65.46	65.41	89.666	6,154.27	1,009.98	331.66	201.35	130.30	2.545	
16,300.00	9,790.12	16,369.69	9,809.71	66.20	66.14	89.666	6,254.26	1,009.37	331.66	199.88	131.78	2.517	
16,400.00	9,790.64	16,469.69	9,810.24	66.94	66.88	89.666	6,354.26	1,008.75	331.65	198.40	133.26	2.489	
16,500.00	9,791.16	16,569.69	9,810.76	67.68	67.63	89.666	6,454.26	1,008.14	331.65	196.91	134.74	2.461	
16,600.00	9,791.68	16,669.69	9,811.28	68.43	68.37	89.666	6,554.25	1,007.52	331.65	195.42	136.23	2.434	
16,700.00	9,792.21	16,769.69	9,811.81	69.18	69.12	89.666	6,654.25	1,006.91	331.65	193.92	137.73	2.408	
16,800.00	9,792.73	16,869.69	9,812.33	69.93	69.87	89.666	6,754.25	1,006.29	331.65	192.42	139.23	2.382	
16,900.00	9,793.25	16,969.69	9,812.86	70.69	70.62	89.666	6,854.24	1,005.68	331.64	190.91	140.73	2.357	
17,000.00	9,793.77	17,069.69	9,813.38	71.45	71.38	89.666	6,954.24	1,005.07	331.64	189.39	142.25	2.331	
17,100.00	9,794.29	17,169.69	9,813.90	72.21	72.14	89.666	7,054.24	1,004.45	331.64	187.88	143.76	2.307	
17,200.00	9,794.81	17,269.69	9,814.43	72.97	72.90	89.666	7,154.23	1,003.84	331.64	186.35	145.29	2.283	
17,300.00	9,795.33	17,369.69	9,814.95	73.73	73.66	89.666	7,254.23	1,003.22	331.63	184.82	146.81	2.259	
17,400.00	9,795.86	17,469.69	9,815.47	74.50	74.42	89.666	7,354.23	1,002.61	331.63	183.29	148.34	2.236	
17,500.00	9,796.38	17,569.69	9,816.00	75.27	75.19	89.666	7,454.22	1,001.99	331.63	181.75	149.88	2.213	
17,600.00	9,796.90	17,669.69	9,816.52	76.04	75.96	89.666	7,554.22	1,001.38	331.63	180.21	151.42	2.190	
17,700.00	9,797.42	17,769.69	9,817.04	76.81	76.73	89.666	7,654.22	1,000.76	331.63	178.67	152.96	2.168	
17,800.00	9,797.94	17,869.69	9,817.57	77.59	77.51	89.666	7,754.21	1,000.15	331.62	177.12	154.51	2.146	
17,900.00	9,798.46	17,969.69	9,818.09	78.36	78.28	89.666	7,854.21	999.54	331.62	175.56	156.06	2.125	
18,000.00	9,798.98	18,069.69	9,818.61	79.14	79.06	89.666	7,954.21	998.92	331.62	174.01	157.61	2.104	
18,100.00	9,799.51	18,169.69	9,819.14	79.92	79.84	89.666	8,054.20	998.31	331.62	172.45	159.17	2.083	
18,200.00	9,800.03	18,269.69	9,819.66	80.71	80.62	89.666	8,154.20	997.69	331.62	170.88	160.73	2.063	
18,300.00	9,800.55	18,369.69	9,820.19	81.49	81.40	89.666	8,254.20	997.08	331.61	169.31	162.30	2.043	
18,400.00	9,801.07	18,469.69	9,820.71	82.28	82.19	89.666	8,354.20	996.46	331.61	167.74	163.87	2.024	
18,500.00	9,801.59	18,569.69	9,821.23	83.06	82.97	89.666	8,454.19	995.85	331.61	166.17	165.44	2.004	
18,600.00	9,802.11	18,669.69	9,821.76	83.85	83.76	89.666	8,554.19	995.23	331.61	164.59	167.02	1.985	Level 3
18,700.00	9,802.63	18,769.69	9,822.28	84.64	84.55	89.666	8,654.19	994.62	331.61	163.01	168.59	1.967	Level 3
18,800.00	9,803.16	18,869.69	9,822.80	85.43	85.34	89.666	8,754.18	994.00	331.60	161.43	170.18	1.949	Level 3
18,900.00	9,803.68	18,969.69	9,823.33	86.23	86.13	89.666	8,854.18	993.39	331.60	159.84	171.76	1.931	Level 3
19,000.00	9,804.20	19,069.69	9,823.85	87.02	86.93	89.666	8,954.18	992.78	331.60	158.25	173.35	1.913	Level 3
19,100.00	9,804.72	19,169.69	9,824.37	87.82	87.72	89.666	9,054.17	992.16	331.60	156.66	174.94	1.896	Level 3
19,200.00	9,805.24	19,269.69	9,824.90	88.62	88.52	89.666	9,154.17	991.55	331.59	155.07	176.53	1.878	Level 3
19,300.00	9,805.76	19,369.69	9,825.42	89.42	89.31	89.666	9,254.17	990.93	331.59	153.47	178.12	1.862	Level 3
19,400.00	9,806.28	19,469.69	9,825.94	90.22	90.11	89.666	9,354.16	990.32	331.59	151.87	179.72	1.845	Level 3
19,500.00	9,806.81	19,569.69	9,826.47	91.02	90.91	89.666	9,454.16	989.70	331.59	150.27	181.32	1.829	Level 3
19,600.00	9,807.33	19,669.69	9,826.99	91.82	91.71	89.666	9,554.16	989.09	331.59	148.66	182.92	1.813	Level 3
19,700.00	9,807.85	19,769.69	9,827.52	92.62	92.52	89.666	9,654.15	988.47	331.58	147.06	184.53	1.797	Level 3
19,800.00	9,808.37	19,869.69	9,828.04	93.43	93.32	89.666	9,754.15	987.86	331.58	145.45	186.13	1.781	Level 3
19,900.00	9,808.89	19,969.69	9,828.56	94.23	94.13	89.666	9,854.15	987.25	331.58	143.84	187.74	1.766	Level 3

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

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 124H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1+SAG+FDIR
Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,000.00	9,809.41	20,069.69	9,829.09	95.04	94.93	89.666	9,954.14	986.63	331.58	142.23	189.35	1.751	Level 3
20,076.24	9,809.81	20,145.93	9,829.49	95.65	95.55	89.666	10,030.38	986.16	331.58	140.99	190.58	1.740	Level 3, SF

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 126H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-89.976	0.04	-104.77	104.77				
100.00	100.00	100.00	100.00	0.26	0.26	-89.976	0.04	-104.77	104.77	104.25	0.53	198.830	
200.00	200.00	200.00	200.00	0.62	0.62	-89.976	0.04	-104.77	104.77	103.53	1.24	84.231	
300.00	300.00	300.00	300.00	0.98	0.98	-89.976	0.04	-104.77	104.77	102.81	1.96	53.433	
400.00	399.99	399.99	399.99	1.32	1.34	-89.529	0.04	-104.77	105.08	102.41	2.66	39.474	
500.00	499.96	499.96	499.96	1.66	1.70	-88.203	0.04	-104.77	106.02	102.66	3.36	31.579	
600.00	599.86	601.39	601.39	2.01	2.05	-86.331	-0.53	-104.09	107.00	102.95	4.05	26.413	
700.00	699.68	702.86	702.82	2.36	2.39	-84.198	-2.26	-102.02	107.39	102.65	4.74	22.647	
800.00	799.40	804.44	804.30	2.71	2.74	-82.171	-5.15	-98.58	107.71	102.27	5.44	19.794	
900.00	899.03	907.28	906.91	3.07	3.10	-80.362	-8.79	-92.96	107.76	101.61	6.15	17.525	
1,000.00	998.54	1,010.10	1,009.31	3.43	3.46	-78.466	-12.75	-84.61	106.98	100.12	6.86	15.602	
1,100.00	1,097.90	1,112.85	1,111.38	3.79	3.83	-76.429	-17.03	-73.53	105.39	97.83	7.56	13.936	
1,200.00	1,197.08	1,215.52	1,213.00	4.15	4.20	-74.189	-21.62	-59.73	102.98	94.72	8.26	12.462	
1,300.00	1,296.21	1,317.98	1,314.02	4.52	4.57	-71.557	-26.51	-43.27	98.67	89.71	8.96	11.014	
1,400.00	1,395.33	1,420.10	1,414.19	4.89	4.95	-68.230	-31.70	-24.18	91.99	82.34	9.65	9.533	
1,500.00	1,494.45	1,521.71	1,513.33	5.25	5.33	-63.755	-37.16	-2.56	83.14	72.80	10.34	8.044	
1,600.00	1,593.57	1,622.70	1,611.23	5.62	5.71	-57.320	-42.88	21.52	72.48	61.46	11.02	6.575	
1,700.00	1,692.69	1,722.51	1,707.36	5.99	6.10	-47.531	-48.81	47.73	60.90	49.15	11.74	5.186	
1,800.00	1,791.81	1,821.13	1,802.17	6.36	6.48	-33.537	-54.73	74.21	51.28	38.74	12.53	4.091	
1,900.00	1,890.93	1,919.76	1,896.99	6.73	6.87	-15.188	-60.65	100.69	45.80	32.40	13.40	3.418	
1,947.16	1,937.68	1,966.27	1,941.70	6.90	7.05	-5.641	-63.44	113.18	45.13	31.31	13.82	3.266	CC, ES
2,000.00	1,990.05	2,018.38	1,991.80	7.10	7.26	4.942	-66.57	127.18	45.97	31.69	14.28	3.220	SF
2,100.00	2,089.17	2,117.00	2,086.62	7.47	7.65	22.543	-72.49	153.66	51.73	36.66	15.07	3.432	
2,200.00	2,188.29	2,215.62	2,181.43	7.84	8.04	35.674	-78.41	180.14	61.53	45.74	15.79	3.896	
2,300.00	2,287.41	2,314.25	2,276.25	8.21	8.44	44.936	-84.34	206.63	73.78	57.29	16.48	4.476	
2,400.00	2,386.53	2,412.87	2,371.07	8.58	8.83	51.501	-90.26	233.11	87.45	70.27	17.18	5.091	
2,500.00	2,485.66	2,511.49	2,465.88	8.95	9.23	56.283	-96.18	259.59	101.98	84.10	17.87	5.706	
2,600.00	2,584.78	2,610.11	2,560.70	9.33	9.63	59.874	-102.10	286.08	117.04	98.46	18.57	6.301	
2,700.00	2,683.90	2,708.74	2,655.51	9.70	10.03	62.650	-108.02	312.56	132.45	113.17	19.28	6.869	
2,800.00	2,783.02	2,807.36	2,750.33	10.07	10.43	64.851	-113.94	339.04	148.11	128.12	20.00	7.407	
2,900.00	2,882.14	2,905.98	2,845.14	10.44	10.83	66.633	-119.86	365.53	163.94	143.23	20.71	7.916	
3,000.00	2,981.26	3,004.60	2,939.96	10.81	11.23	68.104	-125.78	392.01	179.90	158.47	21.43	8.395	
3,100.00	3,080.38	3,103.23	3,034.77	11.19	11.64	69.336	-131.71	418.49	195.96	173.81	22.15	8.847	
3,200.00	3,179.50	3,201.85	3,129.59	11.56	12.04	70.383	-137.63	444.98	212.09	189.22	22.87	9.273	
3,300.00	3,278.62	3,300.47	3,224.40	11.93	12.44	71.283	-143.55	471.46	228.28	204.68	23.60	9.674	
3,400.00	3,377.74	3,399.09	3,319.22	12.30	12.85	72.064	-149.47	497.94	244.52	220.20	24.32	10.053	
3,500.00	3,476.86	3,497.72	3,414.04	12.67	13.25	72.748	-155.39	524.43	260.79	235.74	25.05	10.412	
3,600.00	3,575.98	3,596.34	3,508.85	13.05	13.66	73.352	-161.31	550.91	277.10	251.32	25.78	10.751	
3,700.00	3,675.11	3,694.96	3,603.67	13.42	14.06	73.890	-167.23	577.39	293.43	266.93	26.50	11.072	
3,800.00	3,774.23	3,793.58	3,698.48	13.79	14.47	74.371	-173.15	603.88	309.79	282.55	27.23	11.376	
3,900.00	3,873.35	3,892.21	3,793.30	14.16	14.87	74.804	-179.07	630.36	326.16	298.20	27.96	11.665	
4,000.00	3,972.47	3,990.83	3,888.11	14.54	15.28	75.195	-185.00	656.84	342.55	313.86	28.69	11.940	
4,100.00	4,071.59	4,089.45	3,982.93	14.91	15.69	75.552	-190.92	683.33	358.95	329.53	29.42	12.201	
4,200.00	4,170.71	4,188.07	4,077.74	15.28	16.09	75.877	-196.84	709.81	375.37	345.22	30.15	12.450	
4,300.00	4,269.83	4,286.69	4,172.56	15.65	16.50	76.175	-202.76	736.29	391.79	360.91	30.88	12.687	
4,400.00	4,368.95	4,385.32	4,267.37	16.03	16.91	76.449	-208.68	762.78	408.23	376.62	31.61	12.913	
4,500.00	4,468.07	4,483.94	4,362.19	16.40	17.31	76.701	-214.60	789.26	424.67	392.33	32.34	13.130	
4,600.00	4,567.19	4,582.56	4,457.00	16.77	17.72	76.936	-220.52	815.74	441.12	408.05	33.08	13.337	
4,700.00	4,666.31	4,681.18	4,551.82	17.14	18.13	77.153	-226.44	842.23	457.58	423.77	33.81	13.535	
4,800.00	4,765.44	4,779.81	4,646.64	17.52	18.54	77.355	-232.36	868.71	474.05	439.50	34.54	13.724	
4,900.00	4,864.56	4,878.43	4,741.45	17.89	18.94	77.544	-238.29	895.19	490.51	455.24	35.27	13.906	

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

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 126H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,963.68	4,977.05	4,836.27	18.26	19.35	77.720	-244.21	921.68	506.99	470.98	36.01	14.081	
5,100.00	5,062.80	5,075.67	4,931.08	18.64	19.76	77.886	-250.13	948.16	523.46	486.73	36.74	14.249	
5,200.00	5,161.92	5,174.30	5,025.90	19.01	20.17	78.041	-256.05	974.64	539.95	502.47	37.47	14.410	
5,300.00	5,261.04	5,272.92	5,120.71	19.38	20.58	78.187	-261.97	1,001.13	556.43	518.23	38.20	14.565	
5,400.00	5,360.16	5,371.54	5,215.53	19.75	20.98	78.325	-267.89	1,027.61	572.92	533.98	38.94	14.714	
5,500.00	5,459.28	5,470.16	5,310.34	20.13	21.39	78.455	-273.81	1,054.10	589.41	549.74	39.67	14.858	
5,600.00	5,558.40	5,568.79	5,405.16	20.50	21.80	78.578	-279.73	1,080.58	605.90	565.50	40.40	14.996	
5,700.00	5,657.52	5,667.41	5,499.97	20.87	22.21	78.695	-285.66	1,107.06	622.40	581.26	41.14	15.130	
5,800.00	5,756.64	5,766.03	5,594.79	21.25	22.62	78.805	-291.58	1,133.55	638.90	597.03	41.87	15.258	
5,900.00	5,855.76	5,864.65	5,689.60	21.62	23.03	78.910	-297.50	1,160.03	655.40	612.79	42.61	15.383	
6,000.00	5,954.89	5,963.28	5,784.42	21.99	23.44	79.010	-303.42	1,186.51	671.90	628.56	43.34	15.503	
6,100.00	6,054.01	6,061.90	5,879.24	22.36	23.84	79.105	-309.34	1,213.00	688.41	644.33	44.07	15.619	
6,200.00	6,153.13	6,160.52	5,974.05	22.74	24.25	79.195	-315.26	1,239.48	704.91	660.11	44.81	15.732	
6,300.00	6,252.25	6,259.14	6,068.87	23.11	24.66	79.282	-321.18	1,265.96	721.43	675.89	45.54	15.841	
6,400.00	6,351.50	6,357.63	6,163.55	23.48	25.07	79.425	-327.10	1,292.41	738.66	692.39	46.27	15.963	
6,500.00	6,450.95	6,455.87	6,258.00	23.85	25.48	79.659	-332.99	1,318.79	757.09	710.10	46.99	16.110	
6,600.00	6,550.57	6,553.84	6,352.18	24.21	25.88	79.975	-338.88	1,345.10	776.73	729.02	47.71	16.281	
6,700.00	6,650.33	6,651.49	6,446.07	24.57	26.29	80.368	-344.74	1,371.32	797.59	749.18	48.41	16.474	
6,800.00	6,750.19	6,748.82	6,539.64	24.93	26.69	80.828	-350.58	1,397.46	819.69	770.57	49.11	16.690	
6,900.00	6,850.13	6,845.77	6,632.85	25.29	27.10	81.348	-356.40	1,423.49	843.04	793.23	49.80	16.927	
7,000.00	6,950.11	6,942.34	6,725.69	25.64	27.50	81.922	-362.20	1,449.42	867.66	817.17	50.49	17.186	
7,100.00	7,050.11	7,038.53	6,818.17	25.97	27.90	82.533	-367.98	1,475.25	893.42	842.28	51.14	17.470	
7,200.00	7,150.11	7,134.67	6,910.59	26.29	28.29	83.119	-373.75	1,501.07	919.43	867.64	51.79	17.753	
7,300.00	7,250.11	7,230.81	7,003.02	26.61	28.69	83.673	-379.52	1,526.89	945.52	893.08	52.44	18.030	
7,400.00	7,350.11	7,326.95	7,095.45	26.93	29.09	84.197	-385.29	1,552.70	971.69	918.60	53.09	18.301	
7,500.00	7,450.11	7,423.09	7,187.88	27.26	29.49	84.694	-391.06	1,578.52	997.93	944.18	53.75	18.566	
7,600.00	7,550.11	7,519.23	7,280.31	27.58	29.89	85.166	-396.84	1,604.34	1,024.24	969.84	54.41	18.826	
7,700.00	7,650.11	7,615.37	7,372.74	27.91	30.29	85.614	-402.61	1,630.15	1,050.62	995.55	55.07	19.079	
7,800.00	7,750.11	7,711.51	7,465.17	28.23	30.69	86.040	-408.38	1,655.97	1,077.04	1,021.32	55.73	19.328	
7,900.00	7,850.11	7,807.65	7,557.59	28.56	31.09	86.447	-414.15	1,681.79	1,103.53	1,047.14	56.39	19.570	
8,000.00	7,950.11	7,903.79	7,650.02	28.89	31.49	86.834	-419.92	1,707.60	1,130.06	1,073.01	57.05	19.808	
8,100.00	8,050.11	7,999.93	7,742.45	29.22	31.89	87.203	-425.70	1,733.42	1,156.64	1,098.92	57.72	20.040	
8,200.00	8,150.11	8,096.07	7,834.88	29.55	32.29	87.556	-431.47	1,759.24	1,183.26	1,124.87	58.38	20.267	
8,300.00	8,250.11	8,192.21	7,927.31	29.88	32.69	87.893	-437.24	1,785.05	1,209.92	1,150.87	59.05	20.490	
8,400.00	8,350.11	8,308.05	8,038.81	30.21	33.16	88.275	-444.09	1,815.68	1,236.27	1,176.40	59.87	20.649	
8,500.00	8,450.11	8,450.22	8,176.78	30.54	33.74	88.671	-451.57	1,849.16	1,259.72	1,198.87	60.85	20.703	
8,600.00	8,550.11	8,594.86	8,318.35	30.87	34.30	88.995	-458.04	1,878.06	1,279.63	1,217.86	61.77	20.715	
8,700.00	8,650.11	8,741.61	8,463.02	31.20	34.85	89.253	-463.39	1,902.01	1,295.91	1,233.27	62.64	20.688	
8,800.00	8,750.11	8,890.06	8,610.22	31.54	35.38	89.448	-467.57	1,920.70	1,308.48	1,245.04	63.45	20.624	
8,900.00	8,850.11	9,039.80	8,759.34	31.87	35.90	89.582	-470.52	1,933.89	1,317.28	1,253.10	64.18	20.524	
9,000.00	8,950.11	9,190.38	8,909.71	32.20	36.40	89.657	-472.20	1,941.39	1,322.25	1,257.41	64.85	20.391	
9,100.00	9,050.11	9,330.80	9,050.11	32.54	36.84	89.675	-472.61	1,943.23	1,323.47	1,258.01	65.45	20.220	
9,200.00	9,150.11	9,430.80	9,150.11	32.88	37.14	89.675	-472.61	1,943.23	1,323.47	1,257.36	66.11	20.020	
9,300.00	9,249.97	9,526.07	9,245.38	33.21	37.43	89.825	-472.39	1,943.25	1,323.02	1,256.26	66.76	19.817	
9,400.00	9,347.83	9,600.00	9,318.94	33.53	37.66	90.389	-465.63	1,944.08	1,321.69	1,254.28	67.41	19.606	
9,500.00	9,440.75	9,682.42	9,399.15	33.82	37.89	91.162	-447.09	1,946.36	1,319.95	1,251.97	67.98	19.416	
9,600.00	9,525.90	9,762.40	9,473.64	34.07	38.11	92.169	-418.38	1,949.88	1,317.99	1,249.50	68.49	19.244	
9,700.00	9,600.68	9,844.12	9,544.84	34.28	38.30	93.306	-378.70	1,954.76	1,315.96	1,247.04	68.92	19.094	
9,800.00	9,662.84	9,928.05	9,611.28	34.44	38.46	94.482	-327.92	1,960.99	1,314.05	1,244.77	69.28	18.968	
9,900.00	9,710.48	10,014.74	9,671.31	34.56	38.60	95.588	-265.96	1,968.60	1,312.45	1,242.89	69.56	18.869	

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

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 126H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,000.00	9,742.15	10,104.83	9,722.98	34.64	38.69	96.506	-192.82	1,977.58	1,311.32	1,241.58	69.75	18.801	
10,100.00	9,756.90	10,199.07	9,763.98	34.70	38.75	97.119	-108.71	1,987.91	1,310.81	1,240.97	69.84	18.768	
10,105.79	9,757.24	10,204.68	9,765.97	34.70	38.75	97.143	-103.51	1,988.54	1,310.81	1,240.96	69.84	18.768	
10,200.00	9,758.31	10,299.28	9,791.73	34.75	38.77	97.286	-13.27	1,999.62	1,311.69	1,241.81	69.88	18.770	
10,300.00	9,758.83	10,406.14	9,802.40	34.82	38.77	97.013	92.10	2,012.56	1,315.74	1,245.72	70.03	18.789	
10,400.00	9,759.35	10,590.39	9,803.37	34.92	38.75	93.345	275.56	2,029.19	1,319.84	1,249.43	70.41	18.745	
10,500.00	9,759.88	10,775.81	9,804.34	35.05	38.72	89.637	460.89	2,033.98	1,320.96	1,250.10	70.86	18.641	
10,580.50	9,760.30	10,855.82	9,804.76	35.18	38.71	89.658	540.89	2,033.49	1,320.80	1,249.69	71.12	18.573	
10,600.00	9,760.40	10,875.32	9,804.86	35.21	38.71	89.658	560.39	2,033.37	1,320.94	1,249.77	71.18	18.559	
10,700.00	9,760.92	10,975.32	9,805.39	35.39	38.70	89.658	660.39	2,032.75	1,320.94	1,249.41	71.53	18.466	
10,800.00	9,761.44	11,075.32	9,805.91	35.59	38.70	89.658	760.39	2,032.14	1,320.94	1,249.01	71.93	18.365	
10,900.00	9,761.96	11,175.32	9,806.43	35.82	38.69	89.658	860.38	2,031.52	1,320.94	1,248.58	72.36	18.255	
11,000.00	9,762.48	11,275.32	9,806.96	36.06	38.70	89.658	960.38	2,030.91	1,320.93	1,248.10	72.83	18.136	
11,100.00	9,763.01	11,375.32	9,807.48	36.33	38.70	89.658	1,060.38	2,030.30	1,320.93	1,247.59	73.35	18.010	
11,200.00	9,763.53	11,475.32	9,808.01	36.61	38.72	89.658	1,160.37	2,029.68	1,320.93	1,247.04	73.89	17.876	
11,300.00	9,764.05	11,575.32	9,808.53	36.91	38.74	89.658	1,260.37	2,029.07	1,320.93	1,246.45	74.48	17.736	
11,400.00	9,764.57	11,675.32	9,809.05	37.23	38.80	89.658	1,360.37	2,028.45	1,320.93	1,245.83	75.10	17.589	
11,500.00	9,765.09	11,775.32	9,809.58	37.57	38.92	89.658	1,460.37	2,027.84	1,320.92	1,245.17	75.75	17.438	
11,600.00	9,765.61	11,875.32	9,810.10	37.92	39.15	89.658	1,560.36	2,027.22	1,320.92	1,244.48	76.44	17.281	
11,700.00	9,766.13	11,975.32	9,810.62	38.29	39.46	89.658	1,660.36	2,026.61	1,320.92	1,243.76	77.16	17.119	
11,800.00	9,766.66	12,075.32	9,811.15	38.67	39.81	89.658	1,760.36	2,025.99	1,320.92	1,243.01	77.91	16.954	
11,900.00	9,767.18	12,175.32	9,811.67	39.07	40.18	89.658	1,860.35	2,025.38	1,320.92	1,242.22	78.70	16.785	
12,000.00	9,767.70	12,275.32	9,812.19	39.49	40.58	89.658	1,960.35	2,024.77	1,320.91	1,241.41	79.51	16.613	
12,100.00	9,768.22	12,375.32	9,812.72	39.92	40.99	89.658	2,060.35	2,024.15	1,320.91	1,240.56	80.35	16.439	
12,200.00	9,768.74	12,475.32	9,813.24	40.36	41.42	89.658	2,160.34	2,023.54	1,320.91	1,239.69	81.22	16.263	
12,300.00	9,769.26	12,575.32	9,813.77	40.82	41.87	89.658	2,260.34	2,022.92	1,320.91	1,238.79	82.12	16.085	
12,400.00	9,769.78	12,675.32	9,814.29	41.29	42.33	89.658	2,360.34	2,022.31	1,320.91	1,237.86	83.04	15.906	
12,500.00	9,770.31	12,775.32	9,814.81	41.78	42.80	89.658	2,460.33	2,021.69	1,320.90	1,236.91	83.99	15.726	
12,600.00	9,770.83	12,875.32	9,815.34	42.27	43.28	89.658	2,560.33	2,021.08	1,320.90	1,235.93	84.97	15.546	
12,700.00	9,771.35	12,975.32	9,815.86	42.78	43.77	89.658	2,660.33	2,020.46	1,320.90	1,234.93	85.97	15.365	
12,800.00	9,771.87	13,075.32	9,816.38	43.30	44.28	89.658	2,760.32	2,019.85	1,320.90	1,233.91	86.99	15.185	
12,900.00	9,772.39	13,175.32	9,816.91	43.83	44.80	89.658	2,860.32	2,019.24	1,320.90	1,232.86	88.03	15.005	
13,000.00	9,772.91	13,275.32	9,817.43	44.37	45.32	89.658	2,960.32	2,018.62	1,320.89	1,231.80	89.10	14.825	
13,100.00	9,773.43	13,375.32	9,817.95	44.92	45.86	89.658	3,060.31	2,018.01	1,320.89	1,230.71	90.18	14.647	
13,200.00	9,773.96	13,475.32	9,818.48	45.48	46.41	89.658	3,160.31	2,017.39	1,320.89	1,229.60	91.29	14.469	
13,300.00	9,774.48	13,575.32	9,819.00	46.05	46.97	89.658	3,260.31	2,016.78	1,320.89	1,228.47	92.41	14.293	
13,400.00	9,775.00	13,675.32	9,819.52	46.63	47.53	89.658	3,360.30	2,016.16	1,320.89	1,227.33	93.56	14.118	
13,500.00	9,775.52	13,775.32	9,820.05	47.21	48.11	89.658	3,460.30	2,015.55	1,320.88	1,226.16	94.72	13.945	
13,600.00	9,776.04	13,875.32	9,820.57	47.81	48.69	89.658	3,560.30	2,014.93	1,320.88	1,224.98	95.90	13.774	
13,700.00	9,776.56	13,975.32	9,821.10	48.41	49.28	89.658	3,660.29	2,014.32	1,320.88	1,223.79	97.09	13.604	
13,800.00	9,777.08	14,075.32	9,821.62	49.03	49.89	89.658	3,760.29	2,013.71	1,320.88	1,222.57	98.30	13.437	
13,900.00	9,777.61	14,175.32	9,822.14	49.65	50.49	89.658	3,860.29	2,013.09	1,320.88	1,221.34	99.53	13.271	
14,000.00	9,778.13	14,275.32	9,822.67	50.27	51.11	89.658	3,960.28	2,012.48	1,320.87	1,220.10	100.77	13.107	
14,100.00	9,778.65	14,375.32	9,823.19	50.91	51.73	89.658	4,060.28	2,011.86	1,320.87	1,218.84	102.03	12.946	
14,200.00	9,779.17	14,475.32	9,823.71	51.55	52.36	89.658	4,160.28	2,011.25	1,320.87	1,217.57	103.30	12.787	
14,300.00	9,779.69	14,575.32	9,824.24	52.19	52.99	89.658	4,260.27	2,010.63	1,320.87	1,216.29	104.58	12.630	
14,400.00	9,780.21	14,675.32	9,824.76	52.85	53.64	89.658	4,360.27	2,010.02	1,320.86	1,214.99	105.88	12.475	
14,500.00	9,780.73	14,775.32	9,825.28	53.51	54.28	89.658	4,460.27	2,009.41	1,320.86	1,213.68	107.18	12.323	
14,600.00	9,781.26	14,875.32	9,825.81	54.17	54.94	89.658	4,560.26	2,008.79	1,320.86	1,212.36	108.50	12.173	
14,700.00	9,781.78	14,975.32	9,826.33	54.84	55.60	89.658	4,660.26	2,008.18	1,320.86	1,211.02	109.84	12.026	
14,800.00	9,782.30	15,075.32	9,826.86	55.52	56.26	89.658	4,760.26	2,007.56	1,320.86	1,209.68	111.18	11.881	

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

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 126H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,900.00	9,782.82	15,175.32	9,827.38	56.20	56.94	89.658	4,860.25	2,006.95	1,320.85	1,208.32	112.53	11.738	
15,000.00	9,783.34	15,275.32	9,827.90	56.89	57.61	89.658	4,960.25	2,006.33	1,320.85	1,206.96	113.89	11.597	
15,100.00	9,783.86	15,375.32	9,828.43	57.58	58.29	89.658	5,060.25	2,005.72	1,320.85	1,205.58	115.27	11.459	
15,200.00	9,784.38	15,475.32	9,828.95	58.28	58.98	89.658	5,160.24	2,005.10	1,320.85	1,204.20	116.65	11.323	
15,300.00	9,784.91	15,575.32	9,829.47	58.98	59.67	89.658	5,260.24	2,004.49	1,320.85	1,202.80	118.04	11.190	
15,400.00	9,785.43	15,675.32	9,830.00	59.68	60.36	89.658	5,360.24	2,003.88	1,320.84	1,201.40	119.44	11.058	
15,500.00	9,785.95	15,775.32	9,830.52	60.39	61.06	89.658	5,460.23	2,003.26	1,320.84	1,199.99	120.85	10.929	
15,600.00	9,786.47	15,875.32	9,831.04	61.10	61.77	89.658	5,560.23	2,002.65	1,320.84	1,198.57	122.27	10.803	
15,700.00	9,786.99	15,975.32	9,831.57	61.82	62.47	89.658	5,660.23	2,002.03	1,320.84	1,197.14	123.70	10.678	
15,800.00	9,787.51	16,075.32	9,832.09	62.54	63.19	89.658	5,760.23	2,001.42	1,320.84	1,195.71	125.13	10.556	
15,900.00	9,788.03	16,175.32	9,832.62	63.27	63.90	89.658	5,860.22	2,000.80	1,320.83	1,194.26	126.57	10.436	
16,000.00	9,788.56	16,275.32	9,833.14	63.99	64.62	89.658	5,960.22	2,000.19	1,320.83	1,192.81	128.02	10.318	
16,100.00	9,789.08	16,375.32	9,833.66	64.73	65.34	89.658	6,060.22	1,999.57	1,320.83	1,191.36	129.47	10.202	
16,200.00	9,789.60	16,475.32	9,834.19	65.46	66.07	89.658	6,160.21	1,998.96	1,320.83	1,189.89	130.94	10.088	
16,300.00	9,790.12	16,575.32	9,834.71	66.20	66.80	89.658	6,260.21	1,998.35	1,320.83	1,188.42	132.40	9.976	
16,400.00	9,790.64	16,675.32	9,835.23	66.94	67.53	89.658	6,360.21	1,997.73	1,320.82	1,186.95	133.88	9.866	
16,500.00	9,791.16	16,775.32	9,835.76	67.68	68.27	89.658	6,460.20	1,997.12	1,320.82	1,185.46	135.36	9.758	
16,600.00	9,791.68	16,875.32	9,836.28	68.43	69.00	89.658	6,560.20	1,996.50	1,320.82	1,183.97	136.85	9.652	
16,700.00	9,792.21	16,975.32	9,836.80	69.18	69.75	89.658	6,660.20	1,995.89	1,320.82	1,182.48	138.34	9.548	
16,800.00	9,792.73	17,075.32	9,837.33	69.93	70.49	89.658	6,760.19	1,995.27	1,320.82	1,180.98	139.84	9.445	
16,900.00	9,793.25	17,175.32	9,837.85	70.69	71.24	89.658	6,860.19	1,994.66	1,320.81	1,179.47	141.34	9.345	
17,000.00	9,793.77	17,275.32	9,838.37	71.45	71.99	89.658	6,960.19	1,994.04	1,320.81	1,177.96	142.85	9.246	
17,100.00	9,794.29	17,375.32	9,838.90	72.21	72.74	89.658	7,060.18	1,993.43	1,320.81	1,176.45	144.36	9.149	
17,200.00	9,794.81	17,475.32	9,839.42	72.97	73.49	89.658	7,160.18	1,992.82	1,320.81	1,174.93	145.88	9.054	
17,300.00	9,795.33	17,575.32	9,839.95	73.73	74.25	89.658	7,260.18	1,992.20	1,320.80	1,173.40	147.40	8.961	
17,400.00	9,795.86	17,675.32	9,840.47	74.50	75.01	89.658	7,360.17	1,991.59	1,320.80	1,171.87	148.93	8.869	
17,500.00	9,796.38	17,775.32	9,840.99	75.27	75.77	89.658	7,460.17	1,990.97	1,320.80	1,170.34	150.46	8.778	
17,600.00	9,796.90	17,875.32	9,841.52	76.04	76.54	89.658	7,560.17	1,990.36	1,320.80	1,168.80	152.00	8.690	
17,700.00	9,797.42	17,975.32	9,842.04	76.81	77.30	89.658	7,660.16	1,989.74	1,320.80	1,167.26	153.54	8.602	
17,800.00	9,797.94	18,075.32	9,842.56	77.59	78.07	89.658	7,760.16	1,989.13	1,320.79	1,165.71	155.08	8.517	
17,900.00	9,798.46	18,175.32	9,843.09	78.36	78.84	89.658	7,860.16	1,988.52	1,320.79	1,164.16	156.63	8.432	
18,000.00	9,798.98	18,275.32	9,843.61	79.14	79.61	89.658	7,960.15	1,987.90	1,320.79	1,162.61	158.18	8.350	
18,100.00	9,799.51	18,375.32	9,844.13	79.92	80.39	89.658	8,060.15	1,987.29	1,320.79	1,161.05	159.74	8.268	
18,200.00	9,800.03	18,475.32	9,844.66	80.71	81.16	89.658	8,160.15	1,986.67	1,320.79	1,159.49	161.30	8.188	
18,300.00	9,800.55	18,575.32	9,845.18	81.49	81.94	89.658	8,260.14	1,986.06	1,320.78	1,157.92	162.86	8.110	
18,400.00	9,801.07	18,675.32	9,845.71	82.28	82.72	89.658	8,360.14	1,985.44	1,320.78	1,156.35	164.43	8.033	
18,500.00	9,801.59	18,775.32	9,846.23	83.06	83.50	89.658	8,460.14	1,984.83	1,320.78	1,154.78	166.00	7.957	
18,600.00	9,802.11	18,875.32	9,846.75	83.85	84.29	89.658	8,560.13	1,984.21	1,320.78	1,153.21	167.57	7.882	
18,700.00	9,802.63	18,975.32	9,847.28	84.64	85.07	89.658	8,660.13	1,983.60	1,320.78	1,151.63	169.15	7.808	
18,800.00	9,803.16	19,075.32	9,847.80	85.43	85.86	89.658	8,760.13	1,982.99	1,320.77	1,150.05	170.73	7.736	
18,900.00	9,803.68	19,175.32	9,848.32	86.23	86.65	89.658	8,860.12	1,982.37	1,320.77	1,148.46	172.31	7.665	
19,000.00	9,804.20	19,275.32	9,848.85	87.02	87.43	89.658	8,960.12	1,981.76	1,320.77	1,146.88	173.89	7.595	
19,100.00	9,804.72	19,375.32	9,849.37	87.82	88.22	89.658	9,060.12	1,981.14	1,320.77	1,145.29	175.48	7.527	
19,200.00	9,805.24	19,475.32	9,849.89	88.62	89.02	89.658	9,160.11	1,980.53	1,320.77	1,143.69	177.07	7.459	
19,300.00	9,805.76	19,575.32	9,850.42	89.42	89.81	89.658	9,260.11	1,979.91	1,320.76	1,142.10	178.66	7.392	
19,400.00	9,806.28	19,675.32	9,850.94	90.22	90.60	89.658	9,360.11	1,979.30	1,320.76	1,140.50	180.26	7.327	
19,500.00	9,806.81	19,775.32	9,851.46	91.02	91.40	89.658	9,460.10	1,978.68	1,320.76	1,138.90	181.86	7.263	
19,600.00	9,807.33	19,875.32	9,851.99	91.82	92.20	89.658	9,560.10	1,978.07	1,320.76	1,137.30	183.46	7.199	
19,700.00	9,807.85	19,975.32	9,852.51	92.62	93.00	89.658	9,660.10	1,977.46	1,320.76	1,135.69	185.06	7.137	
19,800.00	9,808.37	20,075.32	9,853.04	93.43	93.80	89.658	9,760.09	1,976.84	1,320.75	1,134.09	186.67	7.075	

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

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 126H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1+SAG+FDIR
Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,900.00	9,808.89	20,175.32	9,853.56	94.23	94.60	89.658	9,860.09	1,976.23	1,320.75	1,132.48	188.27	7.015	
20,000.00	9,809.41	20,275.32	9,854.08	95.04	95.40	89.658	9,960.09	1,975.61	1,320.75	1,130.87	189.88	6.956	
20,076.24	9,809.81	20,351.56	9,854.48	95.65	96.01	89.658	10,036.33	1,975.14	1,320.75	1,129.64	191.11	6.911	

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp W2-1 (111H,115H,121H,125H) - Double Stamp Fed Com 111H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: 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	-88.912	25.04	-1,319.11	1,319.35				
100.00	100.00	98.00	98.00	0.26	0.26	-88.912	25.04	-1,319.11	1,319.35	1,318.83	0.52	2,529.024	
200.00	200.00	198.00	198.00	0.62	0.61	-88.912	25.04	-1,319.11	1,319.35	1,318.12	1.24	1,066.809	
300.00	300.00	298.00	298.00	0.98	0.97	-88.912	25.04	-1,319.11	1,319.35	1,317.40	1.95	675.320	CC
400.00	399.99	397.99	397.99	1.32	1.33	-88.877	25.04	-1,319.11	1,319.67	1,317.01	2.65	497.093	ES
500.00	499.96	497.96	497.96	1.66	1.69	-88.771	25.04	-1,319.11	1,320.61	1,317.26	3.35	394.202	
600.00	599.86	597.86	597.86	2.01	2.05	-88.595	25.04	-1,319.11	1,322.20	1,318.14	4.05	326.200	
700.00	699.68	697.68	697.68	2.36	2.41	-88.349	25.04	-1,319.11	1,324.44	1,319.68	4.76	278.159	
800.00	799.40	797.40	797.40	2.71	2.76	-88.064	25.04	-1,319.11	1,327.89	1,322.42	5.47	242.610	
900.00	899.03	873.08	873.08	3.07	3.03	-87.782	24.83	-1,319.78	1,333.98	1,327.89	6.09	218.895	
1,000.00	998.54	947.86	947.82	3.43	3.28	-87.516	24.16	-1,321.84	1,343.65	1,336.95	6.71	200.323	
1,100.00	1,097.90	1,022.22	1,022.10	3.79	3.54	-87.267	23.05	-1,325.26	1,356.89	1,349.57	7.32	185.474	
1,200.00	1,197.08	1,100.00	1,099.69	4.15	3.80	-87.041	21.41	-1,330.31	1,373.62	1,365.68	7.94	173.076	
1,300.00	1,296.21	1,169.33	1,168.76	4.52	4.05	-86.828	19.53	-1,336.08	1,392.66	1,384.14	8.52	163.465	
1,400.00	1,395.33	1,242.14	1,241.15	4.89	4.30	-86.645	17.15	-1,343.42	1,413.47	1,404.36	9.11	155.109	
1,500.00	1,494.45	1,314.41	1,312.85	5.25	4.56	-86.486	14.36	-1,352.01	1,436.02	1,426.32	9.70	148.032	
1,600.00	1,593.57	1,386.09	1,383.80	5.62	4.81	-86.350	11.18	-1,361.79	1,460.27	1,449.99	10.28	142.008	
1,700.00	1,692.69	1,457.15	1,453.92	5.99	5.07	-86.235	7.62	-1,372.74	1,486.21	1,475.36	10.86	136.885	
1,800.00	1,791.81	1,527.55	1,523.15	6.36	5.32	-86.141	3.70	-1,384.81	1,513.82	1,502.39	11.43	132.467	
1,900.00	1,890.93	1,600.00	1,594.16	6.73	5.58	-86.074	-0.75	-1,398.50	1,543.06	1,531.05	12.00	128.551	
2,000.00	1,990.05	1,666.18	1,658.78	7.10	5.83	-86.007	-5.17	-1,412.12	1,573.90	1,561.36	12.54	125.463	
2,100.00	2,089.17	1,734.36	1,725.07	7.47	6.08	-85.965	-10.09	-1,427.26	1,606.34	1,593.24	13.09	122.700	
2,200.00	2,188.29	1,802.42	1,790.95	7.84	6.34	-85.940	-15.37	-1,443.49	1,640.33	1,626.69	13.63	120.311	
2,300.00	2,287.41	1,896.18	1,881.52	8.21	6.69	-86.011	-22.87	-1,466.57	1,675.05	1,660.74	14.31	117.041	
2,400.00	2,386.53	1,989.93	1,972.08	8.58	7.05	-86.079	-30.37	-1,489.65	1,709.78	1,694.79	14.99	114.051	
2,500.00	2,485.66	2,083.69	2,062.64	8.95	7.41	-86.144	-37.86	-1,512.73	1,744.51	1,728.83	15.67	111.306	
2,600.00	2,584.78	2,177.44	2,153.20	9.33	7.78	-86.207	-45.36	-1,535.81	1,779.24	1,762.88	16.36	108.781	
2,700.00	2,683.90	2,271.20	2,243.76	9.70	8.15	-86.267	-52.86	-1,558.88	1,813.97	1,796.93	17.04	106.449	
2,800.00	2,783.02	2,364.96	2,334.32	10.07	8.51	-86.325	-60.36	-1,581.96	1,848.71	1,830.98	17.73	104.290	
2,900.00	2,882.14	2,458.71	2,424.88	10.44	8.88	-86.381	-67.86	-1,605.04	1,883.44	1,865.03	18.41	102.286	
3,000.00	2,981.26	2,552.47	2,515.45	10.81	9.25	-86.435	-75.36	-1,628.12	1,918.18	1,899.08	19.10	100.421	
3,100.00	3,080.38	2,646.22	2,606.01	11.19	9.63	-86.487	-82.86	-1,651.20	1,952.92	1,933.13	19.79	98.681	
3,200.00	3,179.50	2,739.98	2,696.57	11.56	10.00	-86.538	-90.35	-1,674.28	1,987.66	1,967.18	20.48	97.055	SF

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

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp W2-1 (111H,115H,121H,125H) - Double Stamp Fed Com 115H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-88.891	25.04	-1,294.11	1,294.36				
100.00	100.00	98.00	98.00	0.26	0.26	-88.891	25.04	-1,294.11	1,294.36	1,293.84	0.52	2,481.111	
200.00	200.00	198.00	198.00	0.62	0.61	-88.891	25.04	-1,294.11	1,294.36	1,293.12	1.24	1,046.598	
300.00	300.00	298.00	298.00	0.98	0.97	-88.891	25.04	-1,294.11	1,294.36	1,292.40	1.95	662.526	CC
400.00	399.99	397.99	397.99	1.32	1.33	-88.855	25.04	-1,294.11	1,294.67	1,292.02	2.65	487.677	ES
500.00	499.96	497.96	497.96	1.66	1.69	-88.747	25.04	-1,294.11	1,295.62	1,292.27	3.35	386.742	
600.00	599.86	597.86	597.86	2.01	2.05	-88.568	25.04	-1,294.11	1,297.21	1,293.15	4.05	320.034	
700.00	699.68	697.68	697.68	2.36	2.41	-88.317	25.04	-1,294.11	1,299.45	1,294.69	4.76	272.911	
800.00	799.40	797.40	797.40	2.71	2.76	-88.027	25.04	-1,294.11	1,302.91	1,297.43	5.47	238.045	
900.00	899.03	897.03	897.03	3.07	3.12	-87.729	25.04	-1,294.11	1,308.13	1,301.94	6.19	211.398	
1,000.00	998.54	996.54	996.54	3.43	3.48	-87.425	25.04	-1,294.11	1,315.12	1,308.21	6.90	190.495	
1,100.00	1,097.90	1,095.90	1,095.90	3.79	3.83	-87.117	25.04	-1,294.11	1,323.87	1,316.25	7.62	173.746	
1,200.00	1,197.08	1,195.08	1,195.08	4.15	4.19	-86.804	25.04	-1,294.11	1,334.35	1,326.01	8.34	160.074	
1,300.00	1,296.21	1,294.21	1,294.21	4.52	4.54	-86.495	25.04	-1,294.11	1,345.42	1,336.38	9.05	148.676	
1,400.00	1,395.33	1,393.33	1,393.33	4.89	4.90	-86.190	25.04	-1,294.11	1,356.54	1,346.77	9.76	138.938	
1,500.00	1,494.45	1,492.45	1,492.45	5.25	5.26	-85.891	25.04	-1,294.11	1,367.69	1,357.21	10.48	130.524	
1,600.00	1,593.57	1,594.96	1,594.96	5.62	5.61	-85.628	24.26	-1,294.06	1,378.76	1,367.57	11.19	123.226	
1,700.00	1,692.69	1,698.01	1,697.97	5.99	5.94	-85.445	21.63	-1,293.87	1,389.60	1,377.71	11.89	116.915	
1,800.00	1,791.81	1,801.25	1,801.11	6.36	6.28	-85.341	17.15	-1,293.54	1,400.17	1,387.58	12.59	111.248	
1,900.00	1,890.93	1,904.62	1,904.29	6.73	6.63	-85.312	10.80	-1,293.08	1,410.47	1,397.17	13.29	106.124	
2,000.00	1,990.05	2,008.05	2,007.38	7.10	6.97	-85.359	2.59	-1,292.48	1,420.49	1,406.49	14.00	101.470	
2,100.00	2,089.17	2,111.04	2,109.89	7.47	7.32	-85.476	-7.41	-1,291.75	1,430.24	1,415.53	14.71	97.232	
2,200.00	2,188.29	2,210.52	2,208.82	7.84	7.65	-85.606	-17.79	-1,290.99	1,439.89	1,424.48	15.41	93.435	
2,300.00	2,287.41	2,310.00	2,307.76	8.21	7.99	-85.735	-28.16	-1,290.24	1,449.54	1,433.43	16.11	89.952	
2,400.00	2,386.53	2,409.48	2,406.69	8.58	8.34	-85.861	-38.53	-1,289.48	1,459.21	1,442.38	16.82	86.749	
2,500.00	2,485.66	2,508.96	2,505.62	8.95	8.68	-85.986	-48.91	-1,288.73	1,468.88	1,451.35	17.53	83.795	
2,600.00	2,584.78	2,608.44	2,604.56	9.33	9.03	-86.110	-59.28	-1,287.97	1,478.55	1,460.31	18.24	81.061	
2,700.00	2,683.90	2,707.92	2,703.49	9.70	9.38	-86.232	-69.66	-1,287.22	1,488.24	1,469.28	18.95	78.526	
2,800.00	2,783.02	2,807.40	2,802.43	10.07	9.73	-86.352	-80.03	-1,286.46	1,497.93	1,478.26	19.67	76.169	
2,900.00	2,882.14	2,906.88	2,901.36	10.44	10.08	-86.470	-90.40	-1,285.71	1,507.62	1,487.24	20.38	73.972	
3,000.00	2,981.26	3,006.36	3,000.30	10.81	10.43	-86.588	-100.78	-1,284.95	1,517.33	1,496.23	21.10	71.920	
3,100.00	3,080.38	3,105.84	3,099.23	11.19	10.78	-86.703	-111.15	-1,284.19	1,527.04	1,505.22	21.81	70.000	
3,200.00	3,179.50	3,205.32	3,198.16	11.56	11.14	-86.818	-121.53	-1,283.44	1,536.76	1,514.22	22.53	68.199	
3,300.00	3,278.62	3,304.80	3,297.10	11.93	11.49	-86.930	-131.90	-1,282.68	1,546.48	1,523.22	23.25	66.507	
3,400.00	3,377.74	3,404.28	3,396.03	12.30	11.85	-87.042	-142.27	-1,281.93	1,556.21	1,532.23	23.97	64.914	
3,500.00	3,476.86	3,503.76	3,494.97	12.67	12.21	-87.152	-152.65	-1,281.17	1,565.94	1,541.25	24.69	63.413	
3,600.00	3,575.98	3,603.24	3,593.90	13.05	12.56	-87.260	-163.02	-1,280.42	1,575.68	1,550.26	25.42	61.995	
3,700.00	3,675.11	3,702.72	3,692.84	13.42	12.92	-87.368	-173.40	-1,279.66	1,585.43	1,559.29	26.14	60.654	
3,800.00	3,774.23	3,802.20	3,791.77	13.79	13.28	-87.474	-183.77	-1,278.91	1,595.18	1,568.31	26.86	59.384	
3,900.00	3,873.35	3,901.68	3,890.70	14.16	13.64	-87.578	-194.15	-1,278.15	1,604.93	1,577.35	27.59	58.180	
4,000.00	3,972.47	4,001.15	3,989.64	14.54	14.00	-87.682	-204.52	-1,277.39	1,614.70	1,586.39	28.31	57.036	
4,100.00	4,071.59	4,100.63	4,088.57	14.91	14.36	-87.784	-214.89	-1,276.64	1,624.46	1,595.43	29.03	55.949	
4,200.00	4,170.71	4,200.11	4,187.51	15.28	14.72	-87.885	-225.27	-1,275.88	1,634.24	1,604.48	29.76	54.914	
4,300.00	4,269.83	4,299.59	4,286.44	15.65	15.08	-87.985	-235.64	-1,275.13	1,644.01	1,613.53	30.49	53.928	
4,400.00	4,368.95	4,399.07	4,385.37	16.03	15.44	-88.083	-246.02	-1,274.37	1,653.80	1,622.58	31.21	52.987	
4,500.00	4,468.07	4,498.55	4,484.31	16.40	15.80	-88.181	-256.39	-1,273.62	1,663.58	1,631.64	31.94	52.088	
4,600.00	4,567.19	4,598.03	4,583.24	16.77	16.16	-88.277	-266.76	-1,272.86	1,673.37	1,640.71	32.66	51.229	
4,700.00	4,666.31	4,697.51	4,682.18	17.14	16.52	-88.372	-277.14	-1,272.11	1,683.17	1,649.78	33.39	50.407	
4,800.00	4,765.44	4,796.99	4,781.11	17.52	16.88	-88.466	-287.51	-1,271.35	1,692.97	1,658.85	34.12	49.619	
4,900.00	4,864.56	4,896.47	4,880.05	17.89	17.24	-88.559	-297.89	-1,270.59	1,702.78	1,667.93	34.85	48.865	
5,000.00	4,963.68	4,995.95	4,978.98	18.26	17.61	-88.651	-308.26	-1,269.84	1,712.59	1,677.01	35.57	48.140	

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

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp W2-1 (111H,115H,121H,125H) - Double Stamp Fed Com 115H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,062.80	5,095.43	5,077.91	18.64	17.97	-88.742	-318.63	-1,269.08	1,722.40	1,686.10	36.30	47.445	
5,200.00	5,161.92	5,194.91	5,176.85	19.01	18.33	-88.832	-329.01	-1,268.33	1,732.22	1,695.19	37.03	46.777	
5,300.00	5,261.04	5,294.39	5,275.78	19.38	18.70	-88.921	-339.38	-1,267.57	1,742.05	1,704.29	37.76	46.134	
5,400.00	5,360.16	5,393.87	5,374.72	19.75	19.06	-89.008	-349.76	-1,266.82	1,751.88	1,713.39	38.49	45.516	
5,500.00	5,459.28	5,493.35	5,473.65	20.13	19.42	-89.095	-360.13	-1,266.06	1,761.71	1,722.49	39.22	44.920	
5,600.00	5,558.40	5,592.83	5,572.58	20.50	19.78	-89.181	-370.50	-1,265.30	1,771.54	1,731.59	39.95	44.346	
5,700.00	5,657.52	5,692.31	5,671.52	20.87	20.15	-89.266	-380.88	-1,264.55	1,781.38	1,740.71	40.68	43.793	
5,800.00	5,756.64	5,791.79	5,770.45	21.25	20.51	-89.350	-391.25	-1,263.79	1,791.23	1,749.82	41.41	43.259	
5,900.00	5,855.76	5,891.26	5,869.39	21.62	20.88	-89.433	-401.63	-1,263.04	1,801.07	1,758.94	42.14	42.743	
6,000.00	5,954.89	5,990.74	5,968.32	21.99	21.24	-89.515	-412.00	-1,262.28	1,810.93	1,768.06	42.87	42.245	
6,100.00	6,054.01	6,090.22	6,067.26	22.36	21.60	-89.597	-422.38	-1,261.53	1,820.78	1,777.18	43.60	41.763	
6,200.00	6,153.13	6,189.70	6,166.19	22.74	21.97	-89.677	-432.75	-1,260.77	1,830.64	1,786.31	44.33	41.297	
6,300.00	6,252.25	6,289.18	6,265.12	23.11	22.33	-89.757	-443.12	-1,260.02	1,840.49	1,795.44	45.06	40.846	
6,400.00	6,351.50	6,388.72	6,364.12	23.48	22.70	-89.855	-453.50	-1,259.26	1,849.52	1,803.73	45.79	40.392	
6,500.00	6,450.95	6,486.89	6,461.78	23.85	23.06	-89.969	-463.42	-1,258.54	1,857.17	1,810.66	46.51	39.930	
6,600.00	6,550.57	6,584.33	6,558.86	24.21	23.41	-90.065	-471.72	-1,257.93	1,863.56	1,816.33	47.23	39.460	
6,700.00	6,650.33	6,681.91	6,656.21	24.57	23.76	-90.142	-478.39	-1,257.45	1,868.67	1,820.73	47.94	38.981	
6,800.00	6,750.19	6,779.59	6,753.76	24.93	24.12	-90.200	-483.41	-1,257.08	1,872.50	1,823.86	48.65	38.492	
6,900.00	6,850.13	6,877.34	6,851.46	25.29	24.47	-90.239	-486.76	-1,256.84	1,875.06	1,825.71	49.35	37.995	
7,000.00	6,950.11	6,975.15	6,949.24	25.64	24.81	-90.259	-488.46	-1,256.71	1,876.34	1,826.29	50.05	37.490	
7,100.00	7,050.11	7,074.01	7,048.11	25.97	25.15	-90.262	-488.69	-1,256.70	1,876.50	1,825.79	50.71	37.003	
7,200.00	7,150.11	7,174.01	7,148.11	26.29	25.47	-90.262	-488.69	-1,256.70	1,876.50	1,825.13	51.36	36.534	
7,300.00	7,250.11	7,274.01	7,248.11	26.61	25.80	-90.262	-488.69	-1,256.70	1,876.50	1,824.48	52.02	36.076	
7,400.00	7,350.11	7,374.01	7,348.11	26.93	26.13	-90.262	-488.69	-1,256.70	1,876.50	1,823.83	52.67	35.627	
7,500.00	7,450.11	7,474.01	7,448.11	27.26	26.46	-90.262	-488.69	-1,256.70	1,876.50	1,823.17	53.33	35.189	
7,600.00	7,550.11	7,574.01	7,548.11	27.58	26.80	-90.262	-488.69	-1,256.70	1,876.50	1,822.51	53.98	34.760	
7,700.00	7,650.11	7,674.01	7,648.11	27.91	27.13	-90.262	-488.69	-1,256.70	1,876.50	1,821.85	54.64	34.341	
7,800.00	7,750.11	7,774.01	7,748.11	28.23	27.46	-90.262	-488.69	-1,256.70	1,876.50	1,821.19	55.30	33.931	
7,900.00	7,850.11	7,874.01	7,848.11	28.56	27.79	-90.262	-488.69	-1,256.70	1,876.50	1,820.53	55.97	33.530	
8,000.00	7,950.11	7,974.01	7,948.11	28.89	28.13	-90.262	-488.69	-1,256.70	1,876.50	1,819.87	56.63	33.137	
8,100.00	8,050.11	8,074.01	8,048.11	29.22	28.46	-90.262	-488.69	-1,256.70	1,876.50	1,819.20	57.29	32.753	
8,200.00	8,150.11	8,174.01	8,148.11	29.55	28.80	-90.262	-488.69	-1,256.70	1,876.50	1,818.54	57.96	32.377	
8,300.00	8,250.11	8,274.01	8,248.11	29.88	29.13	-90.262	-488.69	-1,256.70	1,876.50	1,817.87	58.63	32.008	
8,306.80	8,256.91	8,280.81	8,254.91	29.90	29.15	-90.262	-488.69	-1,256.70	1,876.50	1,817.83	58.67	31.983	
8,400.00	8,350.11	8,373.92	8,348.01	30.21	29.47	-90.244	-488.09	-1,256.70	1,876.50	1,817.21	59.29	31.648	
8,500.00	8,450.11	8,471.67	8,444.81	30.54	29.78	-89.854	-475.33	-1,256.77	1,876.56	1,816.63	59.93	31.310	
8,600.00	8,550.11	8,562.67	8,531.76	30.87	30.07	-89.046	-448.84	-1,256.92	1,877.03	1,816.51	60.52	31.014	
8,700.00	8,650.11	8,643.61	8,604.73	31.20	30.30	-87.982	-413.97	-1,257.11	1,878.55	1,817.52	61.04	30.777	
8,800.00	8,750.11	8,713.42	8,663.19	31.54	30.48	-86.823	-375.90	-1,257.31	1,881.90	1,820.44	61.46	30.619	
8,900.00	8,850.11	8,772.58	8,708.80	31.87	30.63	-85.679	-338.26	-1,257.52	1,887.80	1,826.01	61.79	30.552	SF
9,000.00	8,950.11	8,822.35	8,744.00	32.20	30.75	-84.614	-303.10	-1,257.71	1,896.83	1,834.82	62.01	30.589	
9,100.00	9,050.11	8,864.22	8,771.15	32.54	30.84	-83.653	-271.24	-1,257.89	1,909.44	1,847.32	62.12	30.738	
9,200.00	9,150.11	8,900.00	8,792.47	32.88	30.91	-82.789	-242.51	-1,258.04	1,925.92	1,863.80	62.12	31.004	
9,300.00	9,249.97	8,931.19	8,809.55	33.21	30.97	-82.119	-216.42	-1,258.19	1,946.36	1,884.35	62.01	31.386	
9,400.00	9,347.83	8,964.80	8,826.34	33.53	31.04	-81.851	-187.31	-1,258.35	1,970.01	1,908.15	61.85	31.850	
9,500.00	9,440.75	9,000.00	8,842.06	33.82	31.10	-82.016	-155.82	-1,258.52	1,995.61	1,933.95	61.65	32.369	

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp W2-1 (111H,115H,121H,125H) - Double Stamp Fed Com 121H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-89.998	0.04	-1,319.11	1,319.12				
100.00	100.00	98.00	98.00	0.26	0.26	-89.998	0.04	-1,319.11	1,319.11	1,318.59	0.52	2,528.568	
200.00	200.00	198.00	198.00	0.62	0.61	-89.998	0.04	-1,319.11	1,319.11	1,317.88	1.24	1,066.617	
300.00	300.00	298.00	298.00	0.98	0.97	-89.998	0.04	-1,319.11	1,319.11	1,317.16	1.95	675.198	CC
400.00	399.99	397.99	397.99	1.32	1.33	-89.962	0.04	-1,319.11	1,319.41	1,316.76	2.65	496.998	ES
500.00	499.96	497.96	497.96	1.66	1.69	-89.856	0.04	-1,319.11	1,320.31	1,316.96	3.35	394.114	
600.00	599.86	597.86	597.86	2.01	2.05	-89.678	0.04	-1,319.11	1,321.82	1,317.77	4.05	326.108	
700.00	699.68	697.68	697.68	2.36	2.41	-89.430	0.04	-1,319.11	1,323.95	1,319.19	4.76	278.058	
800.00	799.40	797.40	797.40	2.71	2.76	-89.143	0.04	-1,319.11	1,327.28	1,321.81	5.47	242.498	
900.00	899.03	910.18	910.17	3.07	3.15	-88.885	-0.88	-1,318.59	1,331.89	1,325.68	6.22	214.296	
1,000.00	998.54	1,023.52	1,023.46	3.43	3.53	-88.702	-3.74	-1,316.95	1,337.24	1,330.29	6.95	192.443	
1,100.00	1,097.90	1,137.02	1,136.83	3.79	3.91	-88.592	-8.56	-1,314.20	1,343.30	1,335.61	7.69	174.691	
1,200.00	1,197.08	1,250.63	1,250.17	4.15	4.30	-88.555	-15.33	-1,310.32	1,350.04	1,341.60	8.44	160.025	
1,300.00	1,296.21	1,364.39	1,363.48	4.52	4.69	-88.598	-24.07	-1,305.33	1,356.30	1,347.11	9.19	147.645	
1,400.00	1,395.33	1,464.93	1,463.52	4.89	5.04	-88.637	-32.73	-1,300.37	1,361.99	1,352.09	9.90	137.610	
1,500.00	1,494.45	1,564.77	1,562.86	5.25	5.39	-88.673	-41.34	-1,295.45	1,367.68	1,357.07	10.61	128.909	
1,600.00	1,593.57	1,664.60	1,662.20	5.62	5.74	-88.710	-49.95	-1,290.52	1,373.38	1,362.05	11.32	121.276	
1,700.00	1,692.69	1,764.43	1,761.54	5.99	6.10	-88.746	-58.56	-1,285.60	1,379.07	1,367.03	12.04	114.530	
1,800.00	1,791.81	1,864.27	1,860.88	6.36	6.45	-88.781	-67.17	-1,280.68	1,384.77	1,372.01	12.76	108.527	
1,900.00	1,890.93	1,964.10	1,960.22	6.73	6.81	-88.817	-75.78	-1,275.75	1,390.46	1,376.98	13.48	103.153	
2,000.00	1,990.05	2,063.94	2,059.56	7.10	7.17	-88.852	-84.39	-1,270.83	1,396.16	1,381.96	14.20	98.315	
2,100.00	2,089.17	2,163.77	2,158.90	7.47	7.53	-88.886	-93.00	-1,265.91	1,401.86	1,386.93	14.92	93.938	
2,200.00	2,188.29	2,263.60	2,258.24	7.84	7.89	-88.921	-101.61	-1,260.98	1,407.56	1,391.91	15.65	89.960	
2,300.00	2,287.41	2,363.44	2,357.58	8.21	8.25	-88.955	-110.22	-1,256.06	1,413.25	1,396.88	16.37	86.328	
2,400.00	2,386.53	2,463.27	2,456.92	8.58	8.61	-88.989	-118.83	-1,251.14	1,418.95	1,401.86	17.10	83.002	
2,500.00	2,485.66	2,563.11	2,556.26	8.95	8.97	-89.023	-127.44	-1,246.21	1,424.65	1,406.83	17.82	79.942	
2,600.00	2,584.78	2,662.94	2,655.60	9.33	9.34	-89.056	-136.05	-1,241.29	1,430.35	1,411.80	18.55	77.120	
2,700.00	2,683.90	2,762.77	2,754.94	9.70	9.70	-89.089	-144.66	-1,236.36	1,436.05	1,416.78	19.27	74.509	
2,800.00	2,783.02	2,862.61	2,854.28	10.07	10.06	-89.122	-153.27	-1,231.44	1,441.75	1,421.75	20.00	72.086	
2,900.00	2,882.14	2,962.44	2,953.62	10.44	10.42	-89.154	-161.88	-1,226.52	1,447.45	1,426.72	20.73	69.831	
3,000.00	2,981.26	3,062.28	3,052.97	10.81	10.79	-89.187	-170.49	-1,221.59	1,453.15	1,431.70	21.46	67.728	
3,100.00	3,080.38	3,162.11	3,152.31	11.19	11.15	-89.219	-179.10	-1,216.67	1,458.86	1,436.67	22.18	65.762	
3,200.00	3,179.50	3,261.94	3,251.65	11.56	11.52	-89.251	-187.70	-1,211.75	1,464.56	1,441.65	22.91	63.920	
3,300.00	3,278.62	3,361.78	3,350.99	11.93	11.88	-89.282	-196.31	-1,206.82	1,470.26	1,446.62	23.64	62.191	
3,400.00	3,377.74	3,461.61	3,450.33	12.30	12.24	-89.314	-204.92	-1,201.90	1,475.96	1,451.59	24.37	60.565	
3,500.00	3,476.86	3,561.45	3,549.67	12.67	12.61	-89.345	-213.53	-1,196.98	1,481.67	1,456.57	25.10	59.033	
3,600.00	3,575.98	3,661.28	3,649.01	13.05	12.97	-89.376	-222.14	-1,192.05	1,487.37	1,461.54	25.83	57.587	
3,700.00	3,675.11	3,761.11	3,748.35	13.42	13.34	-89.406	-230.75	-1,187.13	1,493.08	1,466.52	26.56	56.220	
3,800.00	3,774.23	3,860.95	3,847.69	13.79	13.70	-89.437	-239.36	-1,182.21	1,498.78	1,471.49	27.29	54.925	
3,900.00	3,873.35	3,960.78	3,947.03	14.16	14.07	-89.467	-247.97	-1,177.28	1,504.49	1,476.47	28.02	53.698	
4,000.00	3,972.47	4,060.62	4,046.37	14.54	14.43	-89.497	-256.58	-1,172.36	1,510.19	1,481.45	28.75	52.533	
4,100.00	4,071.59	4,160.45	4,145.71	14.91	14.80	-89.526	-265.19	-1,167.44	1,515.90	1,486.42	29.48	51.425	
4,200.00	4,170.71	4,260.28	4,245.05	15.28	15.16	-89.556	-273.80	-1,162.51	1,521.61	1,491.40	30.21	50.370	
4,300.00	4,269.83	4,360.12	4,344.39	15.65	15.53	-89.585	-282.41	-1,157.59	1,527.31	1,496.37	30.94	49.366	
4,400.00	4,368.95	4,459.95	4,443.73	16.03	15.90	-89.614	-291.02	-1,152.67	1,533.02	1,501.35	31.67	48.407	
4,500.00	4,468.07	4,559.79	4,543.07	16.40	16.26	-89.643	-299.63	-1,147.74	1,538.73	1,506.33	32.40	47.491	
4,600.00	4,567.19	4,659.62	4,642.41	16.77	16.63	-89.672	-308.24	-1,142.82	1,544.44	1,511.31	33.13	46.616	
4,700.00	4,666.31	4,759.45	4,741.75	17.14	16.99	-89.700	-316.85	-1,137.90	1,550.14	1,516.28	33.86	45.778	
4,800.00	4,765.44	4,859.29	4,841.09	17.52	17.36	-89.728	-325.46	-1,132.97	1,555.85	1,521.26	34.59	44.976	
4,900.00	4,864.56	4,959.12	4,940.43	17.89	17.73	-89.756	-334.07	-1,128.05	1,561.56	1,526.24	35.32	44.206	
5,000.00	4,963.68	5,058.96	5,039.77	18.26	18.09	-89.784	-342.68	-1,123.13	1,567.27	1,531.22	36.06	43.468	

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

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp W2-1 (111H,115H,121H,125H) - Double Stamp Fed Com 121H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,062.80	5,158.79	5,139.11	18.64	18.46	-89.812	-351.28	-1,118.20	1,572.98	1,536.20	36.79	42.759	
5,200.00	5,161.92	5,258.62	5,238.45	19.01	18.82	-89.839	-359.89	-1,113.28	1,578.69	1,541.18	37.52	42.078	
5,300.00	5,261.04	5,358.46	5,337.79	19.38	19.19	-89.866	-368.50	-1,108.36	1,584.40	1,546.15	38.25	41.423	
5,400.00	5,360.16	5,458.29	5,437.13	19.75	19.56	-89.893	-377.11	-1,103.43	1,590.12	1,551.13	38.98	40.792	
5,500.00	5,459.28	5,558.13	5,536.47	20.13	19.92	-89.920	-385.72	-1,098.51	1,595.83	1,556.11	39.71	40.184	
5,600.00	5,558.40	5,657.96	5,635.81	20.50	20.29	-89.947	-394.33	-1,093.59	1,601.54	1,561.09	40.44	39.598	
5,700.00	5,657.52	5,757.79	5,735.15	20.87	20.66	-89.973	-402.94	-1,088.66	1,607.25	1,566.07	41.18	39.033	
5,800.00	5,756.64	5,857.63	5,834.49	21.25	21.02	-89.999	-411.55	-1,083.74	1,612.96	1,571.06	41.91	38.488	
5,900.00	5,855.76	5,957.46	5,933.83	21.62	21.39	-90.025	-420.16	-1,078.82	1,618.68	1,576.04	42.64	37.961	
6,000.00	5,954.89	6,057.30	6,033.17	21.99	21.75	-90.051	-428.77	-1,073.89	1,624.39	1,581.02	43.37	37.452	
6,100.00	6,054.01	6,157.13	6,132.51	22.36	22.12	-90.077	-437.38	-1,068.97	1,630.10	1,586.00	44.10	36.960	
6,200.00	6,153.13	6,256.96	6,231.85	22.74	22.49	-90.102	-445.99	-1,064.05	1,635.82	1,590.98	44.84	36.484	
6,300.00	6,252.25	6,356.80	6,331.19	23.11	22.85	-90.128	-454.60	-1,059.12	1,641.52	1,595.96	45.57	36.023	
6,400.00	6,351.50	6,456.67	6,430.57	23.48	23.22	-90.175	-463.21	-1,054.20	1,646.39	1,600.09	46.30	35.559	
6,500.00	6,450.95	6,544.15	6,517.68	23.85	23.54	-90.201	-470.18	-1,050.21	1,650.24	1,603.27	46.98	35.128	
6,600.00	6,550.57	6,631.62	6,604.89	24.21	23.86	-90.222	-476.00	-1,046.89	1,653.45	1,605.80	47.65	34.700	
6,700.00	6,650.33	6,719.11	6,692.21	24.57	24.18	-90.239	-480.65	-1,044.22	1,656.02	1,607.70	48.32	34.275	
6,800.00	6,750.19	6,806.61	6,779.62	24.93	24.49	-90.252	-484.16	-1,042.22	1,657.94	1,608.96	48.98	33.852	
6,900.00	6,850.13	6,900.00	6,872.97	25.29	24.82	-90.265	-486.61	-1,040.81	1,659.22	1,609.56	49.66	33.412	
7,000.00	6,950.11	6,981.63	6,954.59	25.64	25.11	-90.266	-487.68	-1,040.20	1,659.84	1,609.56	50.28	33.013	
7,100.00	7,050.11	7,075.15	7,048.11	25.97	25.43	-90.267	-487.84	-1,040.11	1,659.91	1,609.00	50.91	32.604	
7,200.00	7,150.11	7,175.15	7,148.11	26.29	25.75	-90.267	-487.84	-1,040.11	1,659.91	1,608.36	51.56	32.195	
7,300.00	7,250.11	7,275.15	7,248.11	26.61	26.08	-90.267	-487.84	-1,040.11	1,659.91	1,607.71	52.21	31.795	
7,400.00	7,350.11	7,375.15	7,348.11	26.93	26.40	-90.267	-487.84	-1,040.11	1,659.91	1,607.06	52.86	31.403	
7,500.00	7,450.11	7,475.15	7,448.11	27.26	26.73	-90.267	-487.84	-1,040.11	1,659.91	1,606.40	53.51	31.021	
7,600.00	7,550.11	7,575.15	7,548.11	27.58	27.06	-90.267	-487.84	-1,040.11	1,659.91	1,605.75	54.16	30.646	
7,700.00	7,650.11	7,675.15	7,648.11	27.91	27.38	-90.267	-487.84	-1,040.11	1,659.91	1,605.09	54.82	30.280	
7,800.00	7,750.11	7,775.15	7,748.11	28.23	27.71	-90.267	-487.84	-1,040.11	1,659.91	1,604.44	55.48	29.921	
7,900.00	7,850.11	7,875.15	7,848.11	28.56	28.04	-90.267	-487.84	-1,040.11	1,659.91	1,603.78	56.14	29.570	
8,000.00	7,950.11	7,975.15	7,948.11	28.89	28.37	-90.267	-487.84	-1,040.11	1,659.91	1,603.12	56.80	29.226	
8,100.00	8,050.11	8,075.15	8,048.11	29.22	28.70	-90.267	-487.84	-1,040.11	1,659.91	1,602.46	57.46	28.890	
8,200.00	8,150.11	8,175.15	8,148.11	29.55	29.04	-90.267	-487.84	-1,040.11	1,659.91	1,601.79	58.12	28.561	
8,300.00	8,250.11	8,275.15	8,248.11	29.88	29.37	-90.267	-487.84	-1,040.11	1,659.91	1,601.13	58.78	28.238	
8,400.00	8,350.11	8,375.15	8,348.11	30.21	29.70	-90.267	-487.84	-1,040.11	1,659.91	1,600.47	59.45	27.922	
8,500.00	8,450.11	8,475.15	8,448.11	30.54	30.04	-90.267	-487.84	-1,040.11	1,659.91	1,599.80	60.11	27.613	
8,600.00	8,550.11	8,575.15	8,548.11	30.87	30.37	-90.267	-487.84	-1,040.11	1,659.91	1,599.13	60.78	27.309	
8,700.00	8,650.11	8,675.15	8,648.11	31.20	30.70	-90.267	-487.84	-1,040.11	1,659.91	1,598.46	61.45	27.012	
8,800.00	8,750.11	8,775.15	8,748.11	31.54	31.04	-90.267	-487.84	-1,040.11	1,659.91	1,597.79	62.12	26.721	
8,900.00	8,850.11	8,875.15	8,848.11	31.87	31.38	-90.267	-487.84	-1,040.11	1,659.91	1,597.12	62.79	26.436	
9,000.00	8,950.11	8,975.15	8,948.11	32.20	31.71	-90.267	-487.84	-1,040.11	1,659.91	1,596.45	63.46	26.156	
9,100.00	9,050.11	9,075.15	9,048.11	32.54	32.05	-90.267	-487.84	-1,040.11	1,659.91	1,595.78	64.14	25.881	
9,200.00	9,150.11	9,175.15	9,148.11	32.88	32.39	-90.267	-487.84	-1,040.11	1,659.91	1,595.10	64.81	25.612	
9,300.00	9,249.97	9,330.37	9,302.10	33.21	32.90	-89.858	-472.32	-1,037.93	1,659.07	1,593.36	65.71	25.249	
9,400.00	9,347.83	9,492.52	9,452.43	33.53	33.38	-88.506	-413.58	-1,029.68	1,656.41	1,589.91	66.50	24.907	
9,500.00	9,440.75	9,641.52	9,570.94	33.82	33.75	-86.677	-324.84	-1,017.21	1,652.60	1,585.45	67.15	24.610	
9,600.00	9,525.90	9,775.95	9,654.87	34.07	34.01	-84.856	-221.23	-1,002.65	1,648.35	1,580.66	67.69	24.351	
9,700.00	9,600.68	9,896.92	9,707.73	34.28	34.20	-83.380	-113.73	-987.54	1,644.27	1,576.13	68.14	24.132	
9,800.00	9,662.84	10,006.53	9,735.01	34.44	34.33	-82.409	-8.77	-972.79	1,640.80	1,572.32	68.48	23.962	
9,900.00	9,710.48	10,100.00	9,742.00	34.56	34.41	-82.222	83.42	-959.83	1,638.21	1,569.50	68.71	23.843	
9,965.73	9,733.17	10,141.85	9,742.00	34.61	34.45	-82.915	124.91	-954.37	1,637.60	1,568.78	68.82	23.796	

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

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp W2-1 (111H,115H,121H,125H) - Double Stamp Fed Com 121H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,000.00	9,742.15	10,162.88	9,742.00	34.64	34.47	-83.336	145.80	-951.85	1,637.76	1,568.88	68.88	23.778	
10,100.00	9,756.90	10,225.71	9,742.00	34.70	34.53	-84.592	208.27	-945.24	1,639.81	1,570.78	69.04	23.753	
10,200.00	9,758.31	10,300.00	9,742.00	34.75	34.62	-85.487	282.32	-939.20	1,643.31	1,574.09	69.22	23.742	
10,300.00	9,758.83	10,352.74	9,742.00	34.82	34.69	-87.133	334.97	-936.08	1,645.59	1,576.18	69.41	23.709	
10,400.00	9,759.35	10,400.00	9,742.00	34.92	34.75	-88.968	382.18	-934.11	1,646.77	1,577.16	69.61	23.657	
10,500.00	9,759.88	10,479.75	9,742.00	35.05	34.88	-89.673	461.91	-932.54	1,646.44	1,576.55	69.88	23.560	
10,600.00	9,760.40	10,561.43	9,742.00	35.21	35.02	-90.311	543.59	-932.81	1,646.11	1,575.92	70.19	23.453	
10,700.00	9,760.92	10,661.43	9,742.00	35.39	35.21	-90.311	643.59	-933.35	1,646.04	1,575.48	70.56	23.327	
10,800.00	9,761.44	10,761.42	9,742.00	35.59	35.42	-90.311	743.58	-933.89	1,645.98	1,575.00	70.98	23.190	
10,900.00	9,761.96	10,861.42	9,742.00	35.82	35.65	-90.311	843.58	-934.43	1,645.91	1,574.48	71.43	23.042	
11,000.00	9,762.48	10,961.42	9,742.00	36.06	35.90	-90.311	943.58	-934.98	1,645.85	1,573.93	71.92	22.883	
11,100.00	9,763.01	11,061.42	9,742.00	36.33	36.17	-90.311	1,043.58	-935.52	1,645.79	1,573.33	72.46	22.715	
11,200.00	9,763.53	11,161.42	9,742.00	36.61	36.46	-90.311	1,143.57	-936.06	1,645.72	1,572.70	73.02	22.537	
11,300.00	9,764.05	11,261.42	9,742.00	36.91	36.77	-90.311	1,243.57	-936.60	1,645.66	1,572.03	73.63	22.351	
11,400.00	9,764.57	11,361.42	9,742.00	37.23	37.09	-90.311	1,343.57	-937.14	1,645.60	1,571.33	74.27	22.157	
11,500.00	9,765.09	11,461.41	9,742.00	37.57	37.43	-90.311	1,443.56	-937.69	1,645.53	1,570.59	74.94	21.957	
11,600.00	9,765.61	11,561.41	9,742.00	37.92	37.79	-90.311	1,543.56	-938.23	1,645.47	1,569.82	75.65	21.751	
11,700.00	9,766.13	11,661.41	9,742.00	38.29	38.17	-90.311	1,643.56	-938.77	1,645.41	1,569.01	76.39	21.539	
11,800.00	9,766.66	11,761.41	9,742.00	38.67	38.56	-90.311	1,743.56	-939.31	1,645.34	1,568.18	77.17	21.322	
11,900.00	9,767.18	11,861.41	9,742.00	39.07	38.96	-90.311	1,843.55	-939.86	1,645.28	1,567.31	77.97	21.102	
12,000.00	9,767.70	11,961.41	9,742.00	39.49	39.38	-90.311	1,943.55	-940.40	1,645.22	1,566.41	78.80	20.878	
12,100.00	9,768.22	12,061.41	9,742.00	39.92	39.82	-90.311	2,043.55	-940.94	1,645.15	1,565.49	79.67	20.651	
12,200.00	9,768.74	12,161.41	9,742.00	40.36	40.27	-90.311	2,143.54	-941.48	1,645.09	1,564.54	80.56	20.422	
12,300.00	9,769.26	12,261.40	9,742.00	40.82	40.73	-90.311	2,243.54	-942.02	1,645.03	1,563.56	81.47	20.191	
12,400.00	9,769.78	12,361.40	9,742.00	41.29	41.21	-90.311	2,343.54	-942.57	1,644.97	1,562.55	82.42	19.959	
12,500.00	9,770.31	12,461.40	9,742.00	41.78	41.69	-90.311	2,443.54	-943.11	1,644.91	1,561.52	83.39	19.726	
12,600.00	9,770.83	12,561.40	9,742.00	42.27	42.19	-90.311	2,543.53	-943.65	1,644.85	1,560.46	84.38	19.493	
12,700.00	9,771.35	12,661.40	9,742.00	42.78	42.71	-90.311	2,643.53	-944.19	1,644.78	1,559.39	85.40	19.260	
12,800.00	9,771.87	12,761.40	9,742.00	43.30	43.23	-90.311	2,743.53	-944.74	1,644.72	1,558.29	86.44	19.028	
12,900.00	9,772.39	12,861.40	9,742.00	43.83	43.76	-90.311	2,843.52	-945.28	1,644.66	1,557.16	87.50	18.796	
13,000.00	9,772.91	12,961.39	9,742.00	44.37	44.31	-90.311	2,943.52	-945.82	1,644.60	1,556.02	88.58	18.566	
13,100.00	9,773.43	13,061.39	9,742.00	44.92	44.86	-90.311	3,043.52	-946.36	1,644.54	1,554.85	89.69	18.337	
13,200.00	9,773.96	13,161.39	9,742.00	45.48	45.43	-90.311	3,143.52	-946.90	1,644.48	1,553.67	90.81	18.109	
13,300.00	9,774.48	13,261.39	9,742.00	46.05	46.00	-90.311	3,243.51	-947.45	1,644.42	1,552.47	91.95	17.884	
13,400.00	9,775.00	13,361.39	9,742.00	46.63	46.59	-90.311	3,343.51	-947.99	1,644.36	1,551.25	93.11	17.660	
13,500.00	9,775.52	13,461.39	9,742.00	47.21	47.18	-90.311	3,443.51	-948.53	1,644.30	1,550.01	94.29	17.439	
13,600.00	9,776.04	13,561.39	9,742.00	47.81	47.78	-90.311	3,543.50	-949.07	1,644.24	1,548.76	95.48	17.220	
13,700.00	9,776.56	13,661.38	9,742.00	48.41	48.39	-90.311	3,643.50	-949.62	1,644.18	1,547.49	96.69	17.004	
13,800.00	9,777.08	13,761.38	9,742.00	49.03	49.00	-90.311	3,743.50	-950.16	1,644.12	1,546.20	97.92	16.790	
13,900.00	9,777.61	13,861.38	9,742.00	49.65	49.63	-90.311	3,843.50	-950.70	1,644.06	1,544.90	99.16	16.580	
14,000.00	9,778.13	13,961.38	9,742.00	50.27	50.26	-90.311	3,943.49	-951.24	1,644.00	1,543.58	100.42	16.372	
14,100.00	9,778.65	14,061.38	9,742.00	50.91	50.90	-90.311	4,043.49	-951.79	1,643.94	1,542.25	101.69	16.167	
14,200.00	9,779.17	14,161.38	9,742.00	51.55	51.54	-90.311	4,143.49	-952.33	1,643.88	1,540.91	102.97	15.964	
14,300.00	9,779.69	14,261.38	9,742.00	52.19	52.19	-90.311	4,243.48	-952.87	1,643.82	1,539.56	104.27	15.765	
14,400.00	9,780.21	14,361.37	9,742.00	52.85	52.85	-90.311	4,343.48	-953.41	1,643.77	1,538.19	105.58	15.569	
14,500.00	9,780.73	14,461.37	9,742.00	53.51	53.51	-90.311	4,443.48	-953.95	1,643.71	1,536.81	106.90	15.376	
14,600.00	9,781.26	14,561.37	9,742.00	54.17	54.18	-90.311	4,543.48	-954.50	1,643.65	1,535.42	108.23	15.187	
14,700.00	9,781.78	14,661.37	9,742.00	54.84	54.86	-90.311	4,643.47	-955.04	1,643.59	1,534.02	109.57	15.000	
14,800.00	9,782.30	14,761.37	9,742.00	55.52	55.54	-90.311	4,743.47	-955.58	1,643.53	1,532.60	110.93	14.816	
14,900.00	9,782.82	14,861.37	9,742.00	56.20	56.22	-90.311	4,843.47	-956.12	1,643.47	1,531.18	112.29	14.636	
15,000.00	9,783.34	14,961.37	9,742.00	56.89	56.91	-90.311	4,943.46	-956.67	1,643.42	1,529.75	113.67	14.458	

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

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp W2-1 (111H,115H,121H,125H) - Double Stamp Fed Com 121H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,100.00	9,783.86	15,061.36	9,742.00	57.58	57.61	-90.311	5,043.46	-957.21	1,643.36	1,528.31	115.05	14.284	
15,200.00	9,784.38	15,161.36	9,742.00	58.28	58.31	-90.311	5,143.46	-957.75	1,643.30	1,526.86	116.45	14.112	
15,300.00	9,784.91	15,261.36	9,742.00	58.98	59.01	-90.311	5,243.46	-958.29	1,643.25	1,525.40	117.85	13.944	
15,400.00	9,785.43	15,361.36	9,742.00	59.68	59.72	-90.311	5,343.45	-958.83	1,643.19	1,523.93	119.26	13.778	
15,500.00	9,785.95	15,461.36	9,742.00	60.39	60.43	-90.311	5,443.45	-959.38	1,643.13	1,522.45	120.68	13.616	
15,600.00	9,786.47	15,561.36	9,742.00	61.10	61.15	-90.311	5,543.45	-959.92	1,643.07	1,520.97	122.11	13.456	
15,700.00	9,786.99	15,661.36	9,742.00	61.82	61.87	-90.311	5,643.44	-960.46	1,643.02	1,519.48	123.54	13.299	
15,800.00	9,787.51	15,761.36	9,742.00	62.54	62.59	-90.311	5,743.44	-961.00	1,642.96	1,517.98	124.98	13.145	
15,900.00	9,788.03	15,861.35	9,742.00	63.27	63.32	-90.311	5,843.44	-961.55	1,642.91	1,516.47	126.43	12.994	
16,000.00	9,788.56	15,961.35	9,742.00	63.99	64.05	-90.311	5,943.44	-962.09	1,642.85	1,514.96	127.89	12.846	
16,100.00	9,789.08	16,061.35	9,742.00	64.73	64.78	-90.311	6,043.43	-962.63	1,642.79	1,513.44	129.35	12.700	
16,200.00	9,789.60	16,161.35	9,742.00	65.46	65.52	-90.311	6,143.43	-963.17	1,642.74	1,511.91	130.83	12.557	
16,300.00	9,790.12	16,261.35	9,742.00	66.20	66.26	-90.311	6,243.43	-963.71	1,642.68	1,510.38	132.30	12.416	
16,400.00	9,790.64	16,361.35	9,742.00	66.94	67.00	-90.311	6,343.42	-964.26	1,642.63	1,508.84	133.78	12.278	
16,500.00	9,791.16	16,461.35	9,742.00	67.68	67.75	-90.311	6,443.42	-964.80	1,642.57	1,507.30	135.27	12.143	
16,600.00	9,791.68	16,561.34	9,742.00	68.43	68.50	-90.311	6,543.42	-965.34	1,642.52	1,505.75	136.77	12.010	
16,700.00	9,792.21	16,661.34	9,742.00	69.18	69.25	-90.311	6,643.42	-965.88	1,642.46	1,504.20	138.27	11.879	
16,800.00	9,792.73	16,761.34	9,742.00	69.93	70.01	-90.311	6,743.41	-966.43	1,642.41	1,502.64	139.77	11.751	
16,900.00	9,793.25	16,861.34	9,742.00	70.69	70.77	-90.311	6,843.41	-966.97	1,642.35	1,501.07	141.28	11.625	
17,000.00	9,793.77	16,961.34	9,742.00	71.45	71.53	-90.311	6,943.41	-967.51	1,642.30	1,499.50	142.80	11.501	
17,100.00	9,794.29	17,061.34	9,742.00	72.21	72.29	-90.311	7,043.40	-968.05	1,642.25	1,497.93	144.32	11.379	
17,200.00	9,794.81	17,161.34	9,742.00	72.97	73.05	-90.311	7,143.40	-968.60	1,642.19	1,496.35	145.84	11.260	
17,300.00	9,795.33	17,261.33	9,742.00	73.73	73.82	-90.311	7,243.40	-969.14	1,642.14	1,494.77	147.37	11.143	
17,400.00	9,795.86	17,361.33	9,742.00	74.50	74.59	-90.311	7,343.40	-969.68	1,642.08	1,493.18	148.90	11.028	
17,500.00	9,796.38	17,461.33	9,742.00	75.27	75.36	-90.311	7,443.39	-970.22	1,642.03	1,491.59	150.44	10.915	
17,600.00	9,796.90	17,561.33	9,742.00	76.04	76.13	-90.311	7,543.39	-970.76	1,641.98	1,489.99	151.98	10.804	
17,700.00	9,797.42	17,661.33	9,742.00	76.81	76.91	-90.311	7,643.39	-971.31	1,641.92	1,488.39	153.53	10.694	
17,800.00	9,797.94	17,761.33	9,742.00	77.59	77.69	-90.311	7,743.38	-971.85	1,641.87	1,486.79	155.08	10.587	
17,900.00	9,798.46	17,861.33	9,742.00	78.36	78.47	-90.311	7,843.38	-972.39	1,641.82	1,485.19	156.63	10.482	
18,000.00	9,798.98	17,961.32	9,742.00	79.14	79.25	-90.311	7,943.38	-972.93	1,641.77	1,483.58	158.19	10.378	
18,100.00	9,799.51	18,061.32	9,742.00	79.92	80.03	-90.311	8,043.38	-973.48	1,641.71	1,481.96	159.75	10.277	
18,200.00	9,800.03	18,161.32	9,742.00	80.71	80.81	-90.311	8,143.37	-974.02	1,641.66	1,480.35	161.32	10.177	
18,300.00	9,800.55	18,261.32	9,742.00	81.49	81.60	-90.311	8,243.37	-974.56	1,641.61	1,478.73	162.88	10.078	
18,400.00	9,801.07	18,361.32	9,742.00	82.28	82.39	-90.311	8,343.37	-975.10	1,641.56	1,477.10	164.45	9.982	
18,500.00	9,801.59	18,461.32	9,742.00	83.06	83.18	-90.311	8,443.36	-975.64	1,641.51	1,475.48	166.03	9.887	
18,600.00	9,802.11	18,561.32	9,742.00	83.85	83.97	-90.311	8,543.36	-976.19	1,641.45	1,473.85	167.60	9.794	
18,700.00	9,802.63	18,661.32	9,742.00	84.64	84.76	-90.311	8,643.36	-976.73	1,641.40	1,472.22	169.18	9.702	
18,800.00	9,803.16	18,761.31	9,742.00	85.43	85.55	-90.311	8,743.36	-977.27	1,641.35	1,470.58	170.77	9.612	
18,900.00	9,803.68	18,861.31	9,742.00	86.23	86.35	-90.311	8,843.35	-977.81	1,641.30	1,468.95	172.35	9.523	
19,000.00	9,804.20	18,961.31	9,742.00	87.02	87.15	-90.311	8,943.35	-978.36	1,641.25	1,467.31	173.94	9.436	
19,100.00	9,804.72	19,061.31	9,742.00	87.82	87.94	-90.311	9,043.35	-978.90	1,641.20	1,465.67	175.53	9.350	
19,200.00	9,805.24	19,161.31	9,742.00	88.62	88.74	-90.311	9,143.34	-979.44	1,641.15	1,464.02	177.13	9.265	
19,300.00	9,805.76	19,261.31	9,742.00	89.42	89.54	-90.311	9,243.34	-979.98	1,641.10	1,462.38	178.72	9.182	
19,400.00	9,806.28	19,361.31	9,742.00	90.22	90.35	-90.311	9,343.34	-980.52	1,641.05	1,460.73	180.32	9.101	
19,500.00	9,806.81	19,461.30	9,742.00	91.02	91.15	-90.311	9,443.34	-981.07	1,641.00	1,459.08	181.92	9.020	
19,600.00	9,807.33	19,561.30	9,742.00	91.82	91.95	-90.311	9,543.33	-981.61	1,640.95	1,457.42	183.52	8.941	
19,700.00	9,807.85	19,661.30	9,742.00	92.62	92.76	-90.311	9,643.33	-982.15	1,640.90	1,455.77	185.13	8.863	
19,800.00	9,808.37	19,761.30	9,742.00	93.43	93.57	-90.311	9,743.33	-982.69	1,640.85	1,454.11	186.74	8.787	
19,900.00	9,808.89	19,861.30	9,742.00	94.23	94.37	-90.311	9,843.32	-983.24	1,640.80	1,452.45	188.35	8.712	
20,000.00	9,809.41	19,961.30	9,742.00	95.04	95.18	-90.311	9,943.32	-983.78	1,640.75	1,450.79	189.96	8.637	

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

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp W2-1 (111H,115H,121H,125H) - Double Stamp Fed Com 121H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,070.23	9,809.78	20,031.53	9,742.00	95.61	95.75	-90.311	10,013.55	-984.16	1,640.71	1,449.62	191.09	8.586	
20,076.24	9,809.81	20,032.45	9,742.00	95.65	95.76	-90.489	10,014.47	-984.16	1,640.72	1,449.58	191.14	8.584 SF	

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp W2-1 (111H,115H,121H,125H) - Double Stamp Fed Com 125H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: 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	-89.998	0.04	-1,294.11	1,294.12				
100.00	100.00	98.00	98.00	0.26	0.26	-89.998	0.04	-1,294.11	1,294.11	1,293.59	0.52	2,480.646	
200.00	200.00	198.00	198.00	0.62	0.61	-89.998	0.04	-1,294.11	1,294.11	1,292.88	1.24	1,046.402	
300.00	300.00	298.00	298.00	0.98	0.97	-89.998	0.04	-1,294.11	1,294.11	1,292.16	1.95	662.402	CC
400.00	399.99	397.99	397.99	1.32	1.33	-89.962	0.04	-1,294.11	1,294.41	1,291.76	2.65	487.581	ES
500.00	499.96	497.96	497.96	1.66	1.69	-89.853	0.04	-1,294.11	1,295.31	1,291.96	3.35	386.652	
600.00	599.86	597.86	597.86	2.01	2.05	-89.672	0.04	-1,294.11	1,296.82	1,292.77	4.05	319.940	
700.00	699.68	697.68	697.68	2.36	2.41	-89.420	0.04	-1,294.11	1,298.95	1,294.19	4.76	272.808	
800.00	799.40	797.40	797.40	2.71	2.76	-89.126	0.04	-1,294.11	1,302.29	1,296.81	5.47	237.931	
900.00	899.03	897.03	897.03	3.07	3.12	-88.824	0.04	-1,294.11	1,307.38	1,301.19	6.19	211.274	
1,000.00	998.54	996.54	996.54	3.43	3.48	-88.514	0.04	-1,294.11	1,314.23	1,307.33	6.90	190.362	
1,100.00	1,097.90	1,095.90	1,095.90	3.79	3.83	-88.198	0.04	-1,294.11	1,322.85	1,315.23	7.62	173.604	
1,200.00	1,197.08	1,195.08	1,195.08	4.15	4.19	-87.877	0.04	-1,294.11	1,333.19	1,324.85	8.34	159.925	
1,300.00	1,296.21	1,280.23	1,280.22	4.52	4.48	-87.574	-0.31	-1,294.55	1,344.62	1,335.63	8.99	149.611	
1,400.00	1,395.33	1,364.53	1,364.50	4.89	4.77	-87.312	-1.46	-1,295.93	1,357.16	1,347.53	9.63	140.984	
1,500.00	1,494.45	1,448.68	1,448.60	5.25	5.05	-87.089	-3.40	-1,298.27	1,370.80	1,360.53	10.26	133.572	
1,600.00	1,593.57	1,532.64	1,532.46	5.62	5.33	-86.905	-6.11	-1,301.55	1,385.52	1,374.62	10.90	127.125	
1,700.00	1,692.69	1,616.38	1,616.02	5.99	5.62	-86.759	-9.60	-1,305.76	1,401.31	1,389.78	11.53	121.488	
1,800.00	1,791.81	1,700.00	1,699.37	6.36	5.90	-86.649	-13.86	-1,310.91	1,418.17	1,406.00	12.17	116.533	
1,900.00	1,890.93	1,783.07	1,782.06	6.73	6.19	-86.573	-18.86	-1,316.95	1,436.08	1,423.27	12.80	112.172	
2,000.00	1,990.05	1,865.94	1,864.44	7.10	6.48	-86.531	-24.61	-1,323.89	1,455.03	1,441.59	13.43	108.309	
2,100.00	2,089.17	1,948.46	1,946.33	7.47	6.76	-86.520	-31.09	-1,331.72	1,475.01	1,460.95	14.06	104.884	
2,200.00	2,188.29	2,037.11	2,034.16	7.84	7.08	-86.560	-38.79	-1,341.02	1,495.95	1,481.23	14.72	101.629	
2,300.00	2,287.41	2,134.84	2,130.94	8.21	7.42	-86.637	-47.43	-1,351.46	1,517.06	1,501.64	15.42	98.392	
2,400.00	2,386.53	2,232.57	2,227.73	8.58	7.77	-86.712	-56.07	-1,361.89	1,538.17	1,522.05	16.12	95.425	
2,500.00	2,485.66	2,330.29	2,324.51	8.95	8.12	-86.784	-64.70	-1,372.32	1,559.28	1,542.46	16.82	92.695	
2,600.00	2,584.78	2,428.02	2,421.29	9.33	8.47	-86.855	-73.34	-1,382.75	1,580.40	1,562.88	17.53	90.177	
2,700.00	2,683.90	2,525.74	2,518.07	9.70	8.82	-86.924	-81.97	-1,393.18	1,601.52	1,583.29	18.23	87.847	
2,800.00	2,783.02	2,623.47	2,614.86	10.07	9.17	-86.991	-90.61	-1,403.61	1,622.64	1,603.71	18.94	85.685	
2,900.00	2,882.14	2,721.19	2,711.64	10.44	9.53	-87.057	-99.25	-1,414.04	1,643.77	1,624.12	19.64	83.675	
3,000.00	2,981.26	2,818.92	2,808.42	10.81	9.88	-87.120	-107.88	-1,424.47	1,664.89	1,644.54	20.35	81.801	
3,100.00	3,080.38	2,916.65	2,905.21	11.19	10.24	-87.182	-116.52	-1,434.90	1,686.02	1,664.96	21.06	80.049	
3,200.00	3,179.50	3,014.37	3,001.99	11.56	10.60	-87.243	-125.15	-1,445.33	1,707.15	1,685.38	21.77	78.410	
3,300.00	3,278.62	3,112.10	3,098.77	11.93	10.95	-87.302	-133.79	-1,455.76	1,728.28	1,705.80	22.48	76.871	
3,400.00	3,377.74	3,209.82	3,195.55	12.30	11.31	-87.360	-142.42	-1,466.19	1,749.42	1,726.22	23.19	75.425	
3,500.00	3,476.86	3,307.55	3,292.34	12.67	11.67	-87.416	-151.06	-1,476.62	1,770.55	1,746.65	23.91	74.063	
3,600.00	3,575.98	3,405.27	3,389.12	13.05	12.03	-87.471	-159.70	-1,487.06	1,791.69	1,767.07	24.62	72.778	
3,700.00	3,675.11	3,503.00	3,485.90	13.42	12.39	-87.525	-168.33	-1,497.49	1,812.83	1,787.50	25.33	71.565	
3,800.00	3,774.23	3,600.72	3,582.69	13.79	12.75	-87.577	-176.97	-1,507.92	1,833.97	1,807.93	26.04	70.416	
3,900.00	3,873.35	3,698.45	3,679.47	14.16	13.11	-87.629	-185.60	-1,518.35	1,855.11	1,828.35	26.76	69.328	
4,000.00	3,972.47	3,796.18	3,776.25	14.54	13.47	-87.679	-194.24	-1,528.78	1,876.26	1,848.78	27.47	68.296	
4,100.00	4,071.59	3,893.90	3,873.03	14.91	13.83	-87.728	-202.88	-1,539.21	1,897.40	1,869.21	28.19	67.315	
4,200.00	4,170.71	3,991.63	3,969.82	15.28	14.19	-87.776	-211.51	-1,549.64	1,918.55	1,889.64	28.90	66.381	
4,300.00	4,269.83	4,089.35	4,066.60	15.65	14.55	-87.822	-220.15	-1,560.07	1,939.69	1,910.08	29.62	65.493	
4,400.00	4,368.95	4,187.08	4,163.38	16.03	14.91	-87.868	-228.78	-1,570.50	1,960.84	1,930.51	30.33	64.645	
4,500.00	4,468.07	4,284.80	4,260.17	16.40	15.28	-87.913	-237.42	-1,580.93	1,981.99	1,950.94	31.05	63.836	SF

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

CIVITAS

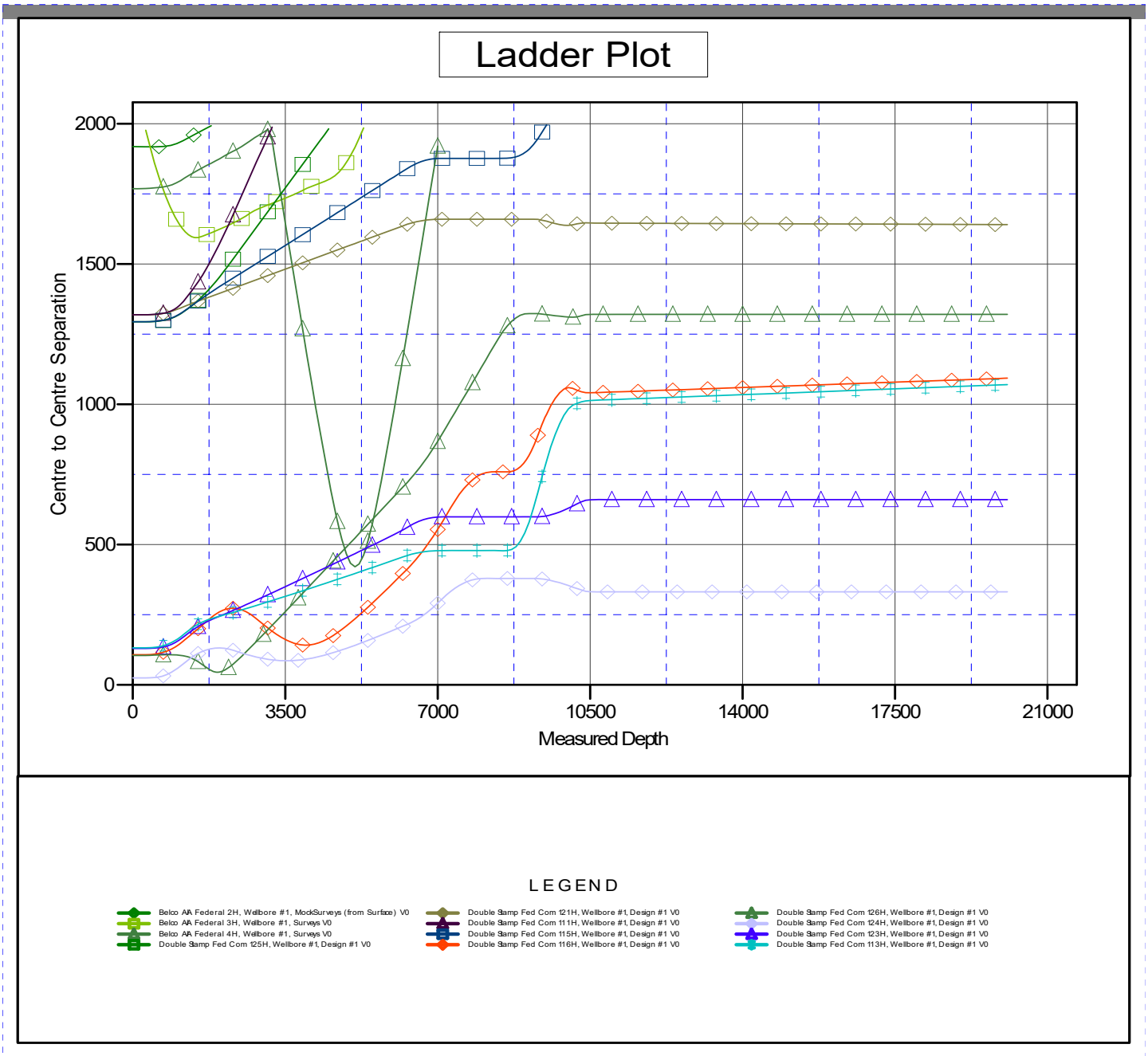
MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 3559.50usft (26.5' KB)
Offset Depths are relative to Offset Datum
Central Meridian is -104.333334

Coordinates are relative to: Double Stamp Fed Com 128H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.322°



CIVITAS

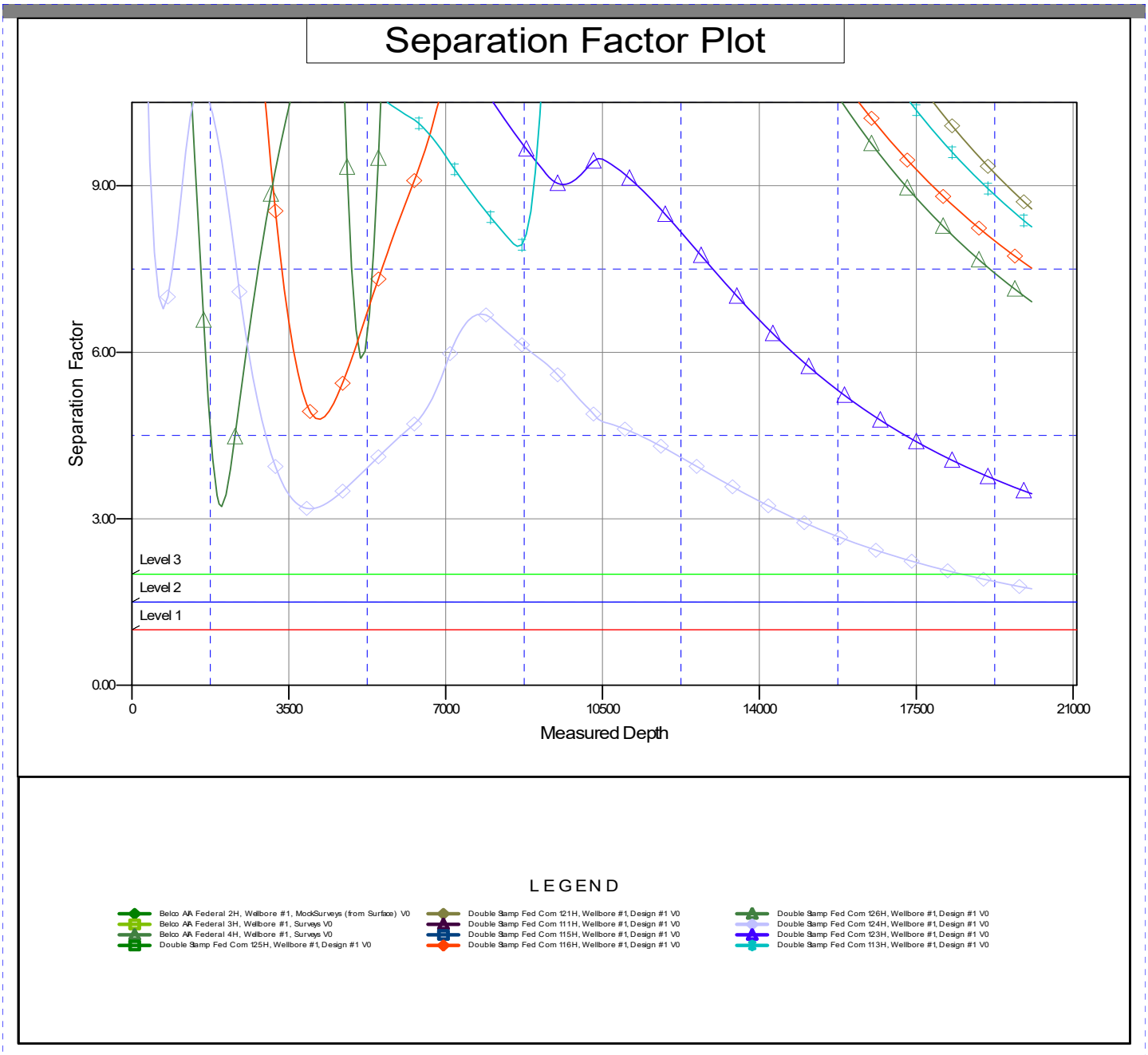
MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 128H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3559.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 3559.50usft (26.5' KB)
Offset Depths are relative to Offset Datum
Central Meridian is -104.333334

Coordinates are relative to: Double Stamp Fed Com 128H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.322°



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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-025-54008	53560	SALT LAKE; BONE SPRING

Property Code	Property Name	Well Number
336572	DOUBLE STAMP FED COM	128H

OGRID No.	Operator Name	Ground Level Elevation
332195	CIVITAS PERMIAN OPERATING, LLC	3533'

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
O	14	20-S	32-E	-	544' S	2366' E	N 32.5674191	W 103.7360277	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
B	11	20-S	32-E	-	5' N	1650' E	N 32.5949730	W 103.7337182	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidated Code
640.00	-	-	-	-

Order Numbers: -

Well Setbacks are under Common Ownership: ☐ Yes ☐ No

Kick Off Point (KOP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
O	14	20-S	32-E	-	50' S	1650' E	N 32.5660622	W 103.7337006	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
O	14	20-S	32-E	-	100' S	1650' E	N 32.5661997	W 103.7337008	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
B	11	20-S	32-E	-	100' N	1650' E	N 32.5947119	W 103.7337180	LEA

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

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.

01/07/2025

Signature Date

Nathan Bennett

Print Name

nbennett@civiresources.com

E-mail Address

SURVEYORS CERTIFICATION

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

RAMON DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

1/7/2025 11:23:40 AM

Signature and Seal of Professional Surveyor Date

Certificate Number

Date of Survey: 04/04/2023

S:\SURVEY\CIVITAS\DOUBLE_STAMP_UNIT\FINAL_PRODUCTS\LO_DOUBLE_STAMP_FED_COM_128H_C102_REV4.dwg BRADLEY /LES 1/7/2025 11:23 AM

C-102

Submit Electronically
Via OCD Permitting

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

Revised July 9, 2024

Submittal Type:
- ☐ Initial Submittal
- ☐ Amended Report
- ☐ As Drilled

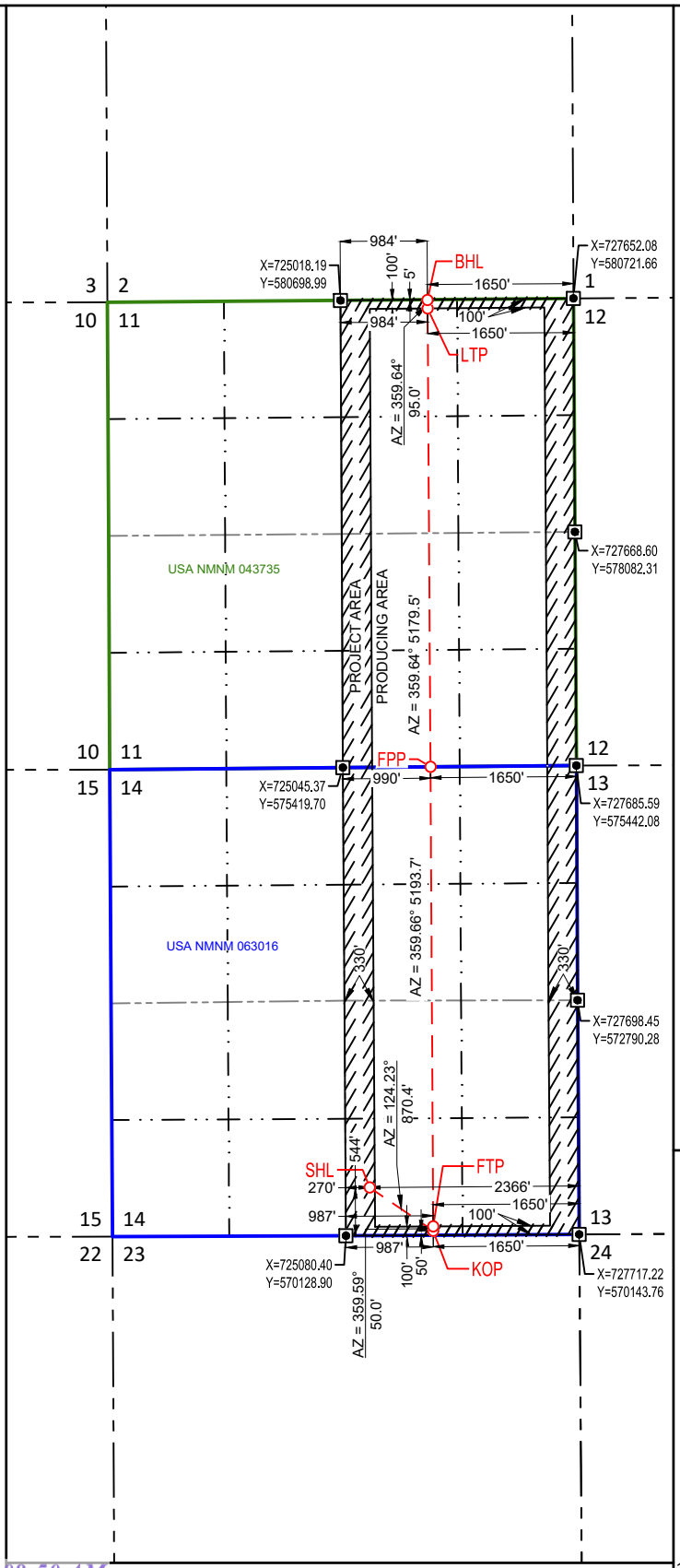
Property Name and Well Number

DOUBLE STAMP FED COM 128H

SURFACE LOCATION (SHL)
NEW MEXICO EAST
NAD 1983
X=725347 Y=570674
LAT.: N 32.5674191
LONG.: W 103.7360277
NAD 1927
X=684167 Y=570612
LAT.: N 32.5672975
LONG.: W 103.7355316
544' FSL 2366' FEL

KICK OFF POINT (KOP)
NEW MEXICO EAST
NAD 1983
X=726067 Y=570184
LAT.: N 32.5660622
LONG.: W 103.7337006
NAD 1927
X=684886 Y=570122
LAT.: N 32.5659406
LONG.: W 103.7332046
50' FSL 1650' FEL

FIRST TAKE POINT (FTP)
NEW MEXICO EAST
NAD 1983
X=726067 Y=570234
LAT.: N 32.5661997
LONG.: W 103.7337008
NAD 1927
X=684886 Y=570172
LAT.: N 32.5660780
LONG.: W 103.7332049
100' FSL 1650' FEL



FED PERF. POINT (FPP)
NEW MEXICO EAST
NAD 1983
X=726036 Y=575428
LAT.: N 32.5804754
LONG.: W 103.7337061
NAD 1927
X=684855 Y=575366
LAT.: N 32.5803538
LONG.: W 103.7332096
0' FNL 1650' FEL

LAST TAKE POINT (LTP)
NEW MEXICO EAST
NAD 1983
X=726003 Y=580607
LAT.: N 32.5947119
LONG.: W 103.7337180
NAD 1927
X=684823 Y=580545
LAT.: N 32.5945904
LONG.: W 103.7332210
100' FNL 1650' FEL

BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST
NAD 1983
X=726002 Y=580702
LAT.: N 32.5949730
LONG.: W 103.7337182
NAD 1927
X=684822 Y=580640
LAT.: N 32.5948515
LONG.: W 103.7332212
5' FNL 1650' 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.

04/04/2023
Date of Survey
Signature and Seal of Professional Surveyor:

RAMON DOMINGUEZ
NEW MEXICO
24508
PROFESSIONAL SURVEYOR

1/7/2025 11:23:42 AM

S:\SURVEY\CAD\TIAS\DOUBLE_STAMP_UNIT\FINAL_PRODUCTS\LO_DOUBLE_STAMP_FED_COM_128H_C102_REV4.dwg BRADLEY.ILLES 1/7/2025 11:23 AM

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

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 425414
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required.	1/30/2025
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing.	1/30/2025