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 / 32.5674207 / -103.7363684

County or Parish/State: LEA / NM

Well Number: 126H

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: 2830701

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 01/10/2025

Time Sundry Submitted: 01:15

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: 126H – Sundry ID #2830701 (30-025-54006) 1) SHL is unchanged. 2) Proposed KOP is Section 14, T20S, R32E @ 50’ FSL / 330’ FEL. 3) Proposed FTP is Section 14, T20S, R32E @ 100’ FSL / 330’ FEL. 4) Proposed LTP is Section 11, T20S, R32E, @ 100’ FNL / 330’ FEL. 5) Proposed BHL is Section 11, T20S, R32E @ 5’ FNL / 330’ FEL. *Note – the Double Stamp FED COM #128H is also being sundried (ID #2830703) 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__126H_01.10.2025_20250110131514.pdf

Double_Stamp_Fed_Com_126H_Directional_Plan_01.10.2025_20250110131452.pdf

Double_Stamp_Fed_Com_126H_AC_01.10.2025_20250110131439.pdf

DOUBLE_STAMP_FED_COM_126H_C102_Revised_01.07.2025_20250110131424.pdf

Well Name: DOUBLE STAMP FED COM

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County or Parish/State: LEA / NM

Well Number: 126H

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 10, 2025 01:15 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 / 2471 FEL / TWSP: 20S / RANGE: 32E / SECTION: 14 / LAT: 32.5674207 / LONG: -103.7363684 (TVD: 0 feet, MD: 0 feet)

PPP: SWSE / 100 FSL / 1650 FEL / TWSP: 20S / RANGE: 32E / SECTION: 14 / LAT: 32.5660622 / LONG: -103.7337007 (TVD: 9609 feet, MD: 10007 feet)

BHL: NWNE / 5 FNL / 1650 FEL / TWSP: 20S / RANGE: 32E / SECTION: 11 / LAT: 32.594973 / LONG: -103.7337182 (TVD: 9566 feet, MD: 19951 feet)

Drilling Operations Plan
Double Stamp Fed Com #126H
Civitas Permian Operating, LLC
SHL 544' FSL & 2471' FEL, Sec. 14
BHL 5' FNL & 330' 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	1,570	1,577	Surface	Anhydrite
Top Salt	1,830	1,848	Salt	Salt
Yates	2,993	3,059	Sandstone	None
Capitan Reef Complex	3,631	3,724	Carbonate	None
DMG	4,705	4,838	Sandstone	None
Brushy Canyon	7,485	7,728	Sandstone	Hydrocarbons
Bone Spring Lime	7,810	8,066	Limestone	Hydrocarbons
Upper Avalon	7,865	8,126	Carbonate	Hydrocarbons
Middle Avalon	8,275	8,547	Carbonate	Hydrocarbons
Lower Avalon	8,610	8,886	Carbonate	Hydrocarbons
1st BS Sand	8,835	9,113	Sandstone	Hydrocarbons
2nd BS Carb	9,165	9,444	Carbonate	Hydrocarbons
2nd BS Sand	9,610	9,926	Sandstone	Hydrocarbons
KOP	9,229	9,510	Carbonate	Hydrocarbons
TD	9,854	20,355	Sandstone	Hydrocarbons

2. Notable Zones

2nd Bone Spring Sand is the formation target.

3. Pressure Control

Pressure Control Equipment (See Schematics):
At 20,355', 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.

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T20S, R32E Lea County, NM

BOP Test procedure will be as follows:
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	1,602	16	API	No	0	1,602	0	1,602	J-55	75	BTC	1.13	1.15	1.6
1st Intermediate	14 3/4	1,602	3,109	11 3/4	API	No	0	3,109	0	2,893	J-55	47	BTC	1.13	1.15	1.6
2nd Intermediate	10 5/8	3,109	4,688	8 5/8	API	No	0	4,688	0	4,555	J-55	32	BTC	1.13	1.15	1.6
Production	7 7/8	4,688	20,355	5 1/2	NON API	No	0	20,355	0	9,854	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	1041	1.72	1790	13.5	75%	C	5% NCl + LCM
	Tail	1302	310	1.33	412	14.8	75%	C	5% NCl + LCM
1st Intermediate	Lead	0	504	2.72	1370	11.0	65%	C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	2409	229	1.72	394	13.5	30%	C	5% NaCl + LCM
2nd Intermediate	Lead	0	376	2.72	1023	11.0	65%	C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	3688	159	1.72	273	13.5	30%	C	5% NaCl + LCM
Production	Lead	4488	277	3.38	935	10.5	20%	C	Fluid Loss + Dispersant + Retarder + LCM
	Tail	9010	2265	1.44	3262	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	1,602	FW Spud Mud	8.40	28	NC
1st Intermediate	1,602	3,109	Brine Water	10.00	27-30	NC
2nd Intermediate	3,109	4,688	FW/Cut Brine	9.00	27-30	NC
Production	4,688	20,355	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.

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 ≈ 4,477 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	243	1.72	418	13.5	0	C	5% NaCl + LCM

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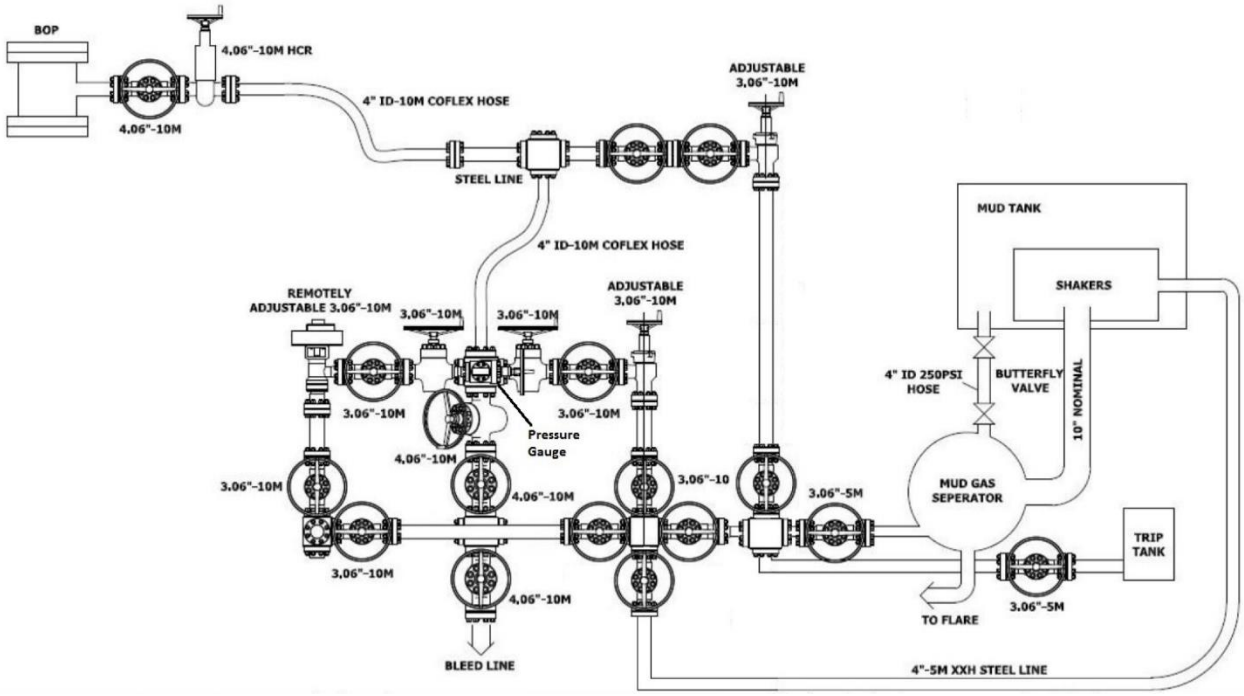
T20S, R32E Lea County, NM

10M Choke Layout



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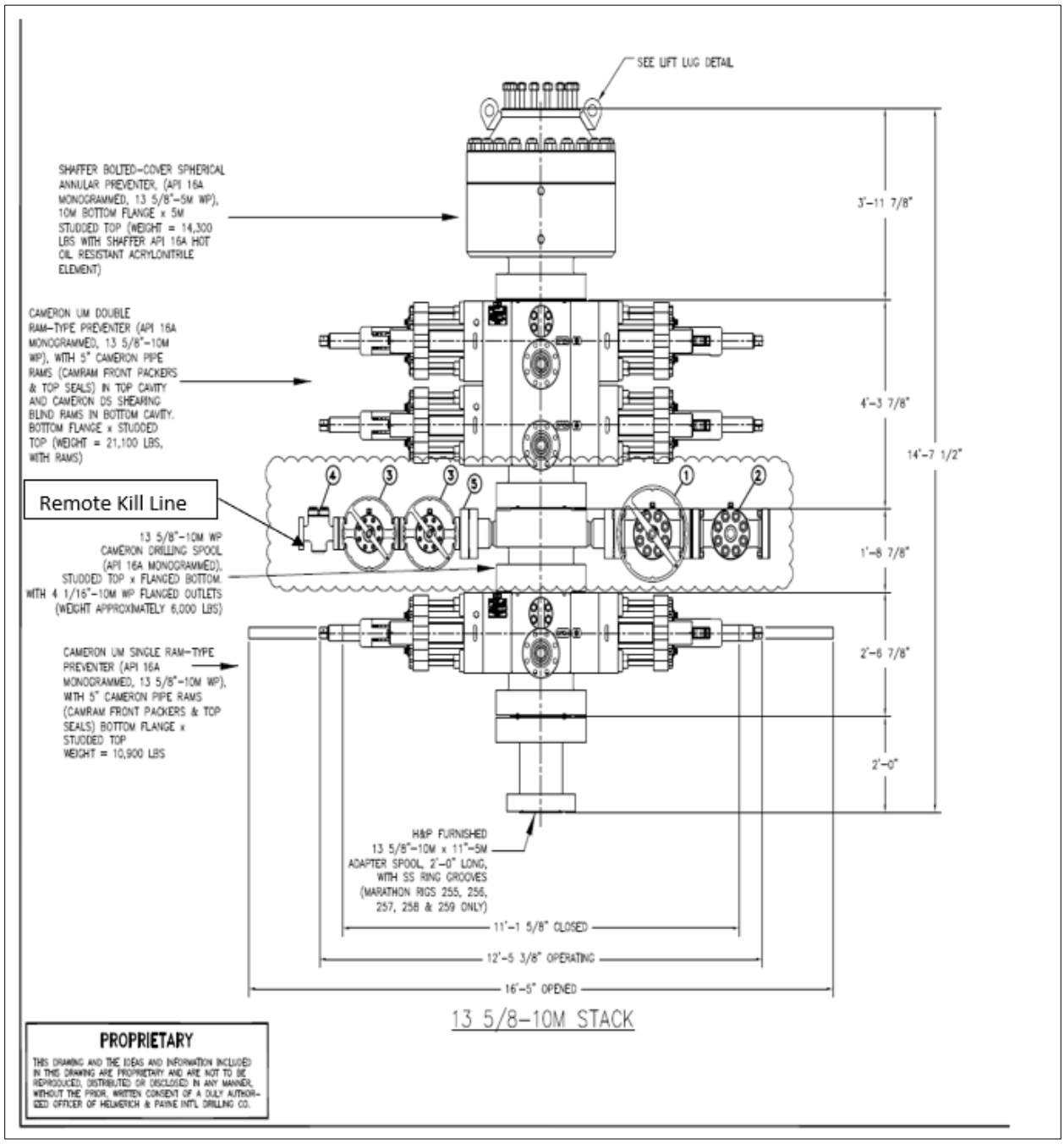
10,000 psi BOP Stack



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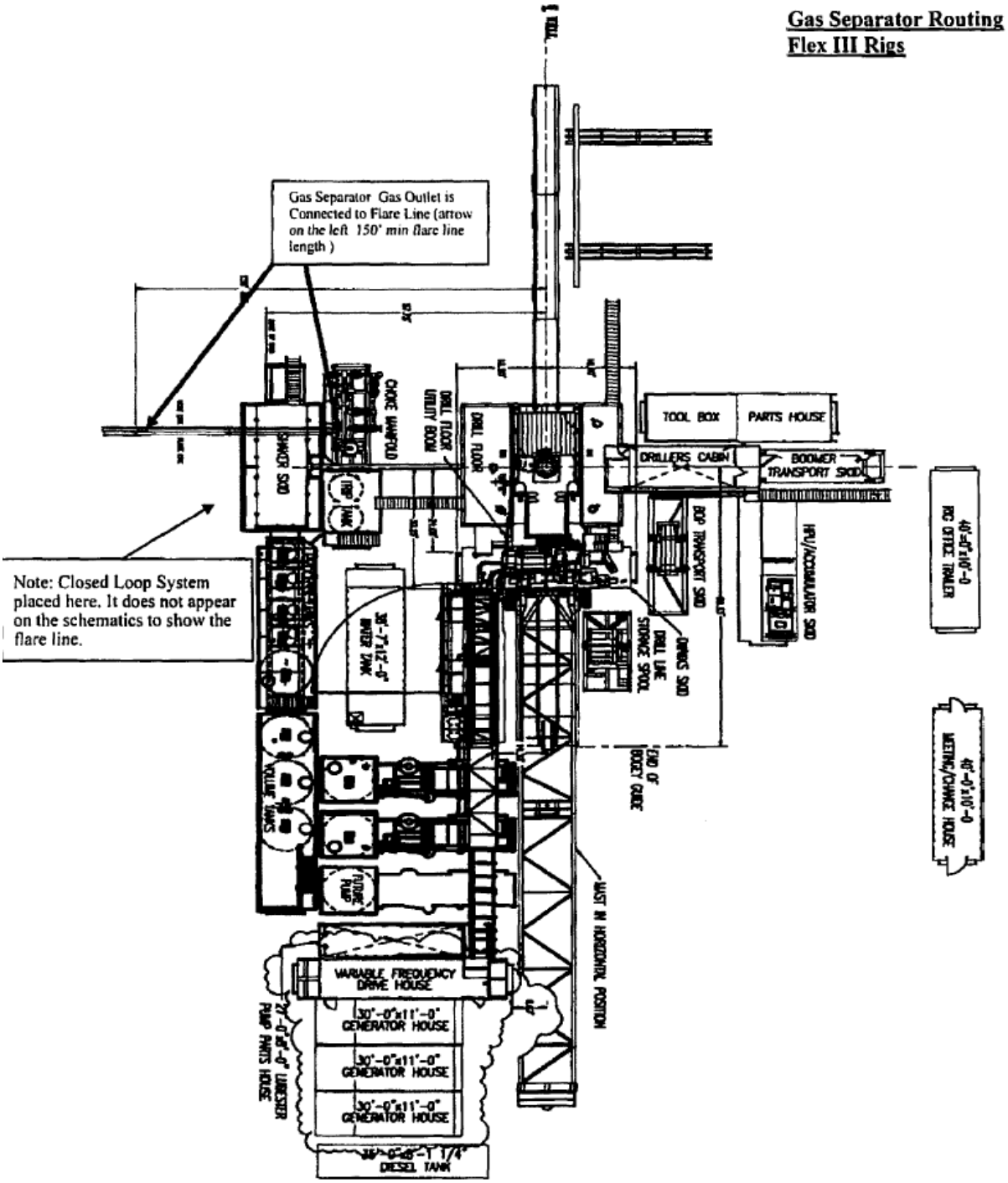
Gas Separator Routing
Flex III Rigs



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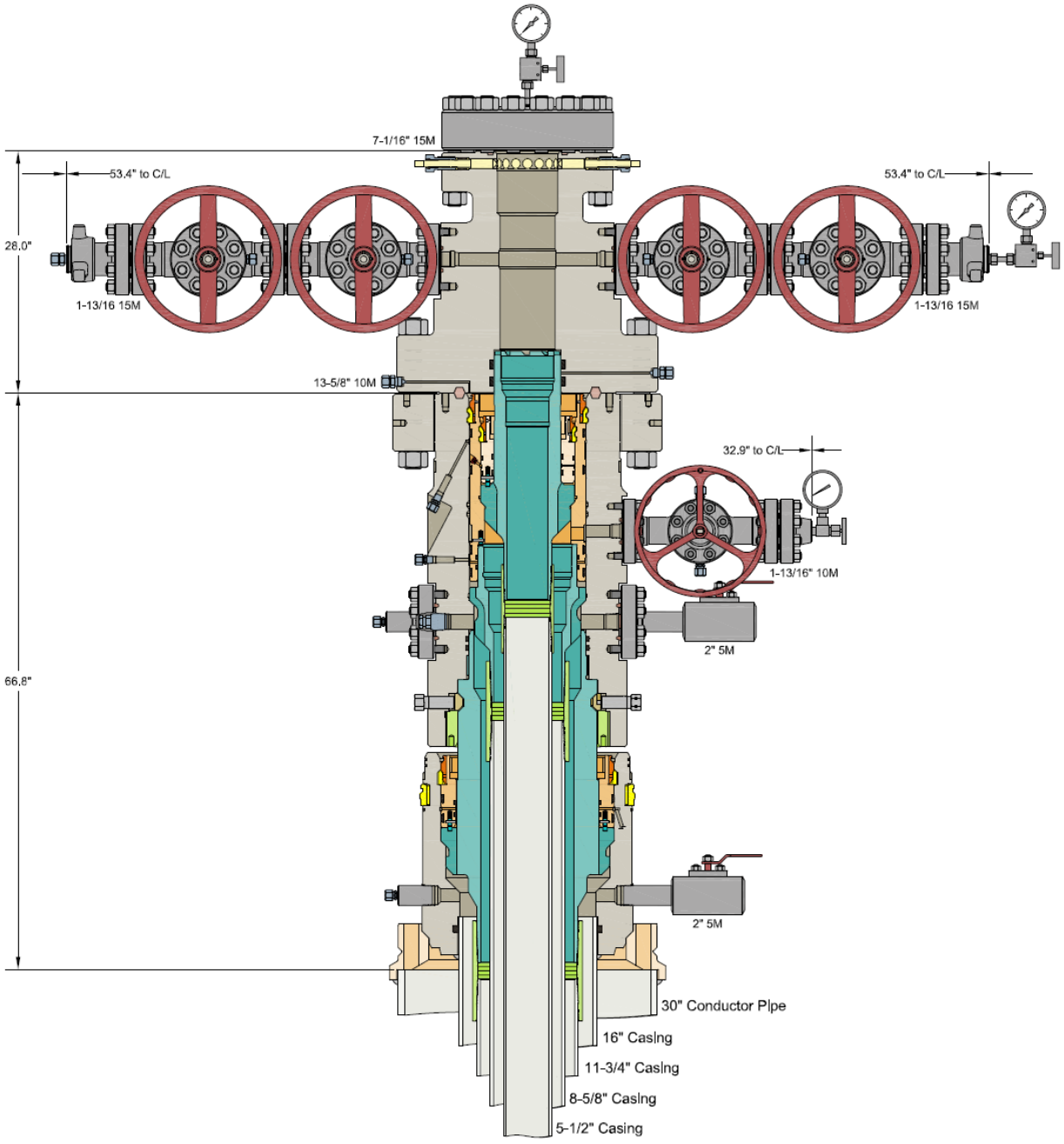
Multi-bowl Wellhead Design



CIVITAS

Company: Civitas Permian Operating, LLC
Well: Double Stamp Fed Com 126H
County: Lea County, New Mexico (NAD 83)
Rig: H&P 376
Wellbore: Wellbore #1
Design: Design #1
Date: 14:45, January 08 2025

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

To convert a Magnetic Direction to a Grid Direction, Add 6.045°
To convert a Magnetic Direction to a True Direction, Add 6.367° East
To convert a True Direction to a Grid Direction, Subtract 0.321°

Double Stamp Fed Com 126H

Target Data Ver. 1

TVD	VS	INC
9802	0	89.7

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP v1_Double Stamp Fed Com 126H	9441.81	-432.15	2144.29	570241.89	727386.51	32.566200	-103.729416
KOP v1_Double Stamp Fed Com 126H	9229.46	-482.15	2144.64	570191.90	727386.87	32.566062	-103.729416
LTP v1_Double Stamp Fed Com 126H	9854.00	9944.78	2080.49	580618.82	727322.72	32.594723	-103.729432
PBHL v1_Double Stamp Fed Com 126H	9854.50	10039.78	2079.90	580713.82	727322.12	32.594984	-103.729432

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DIeg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.000	0.00	KOP, 1.00°/100' Build
800.00	3.00	130.00	799.86	-5.05	6.02	1.00	130.000	-5.08	Begin 1.50°/100' Build & Turn
1691.85	15.97	102.60	1677.88	-47.01	144.27	1.50	-33.179	-47.89	Hold 15.97° Inc, 102.60° Azm
8245.37	15.97	102.60	7978.42	-440.48	1904.10	0.00	0.000	-452.10	Begin 1.50°/100' Drop
9310.15	0.00	0.00	9029.46	-472.65	2048.00	1.50	180.000	-485.15	Begin Vertical Hold
9510.15	0.00	0.00	9229.46	-472.65	2048.00	0.00	0.000	-485.15	Begin 10.00°/100' Build
10407.15	89.70	7.00	9802.41	93.06	2117.46	10.00	7.000	80.12	Hold 89.70° Inc, Begin 2°/100' Turn
10774.74	89.70	359.65	9804.34	459.78	2138.76	2.00	-90.019	446.71	Hold 359.65° Azm
20355.05	89.70	359.65	9854.50	10039.78	2079.90	0.00	0.000	10026.88	PBHL

T G M

Azimuths to Grid North
True North: -0.32°
Magnetic North: 6.05°

Magnetic Field
Strength: 47528.4nT
Dip Angle: 60.25°
Date: 3/5/2025
Model: HDGM2025

WELL DETAILS: Double Stamp Fed Com 126H

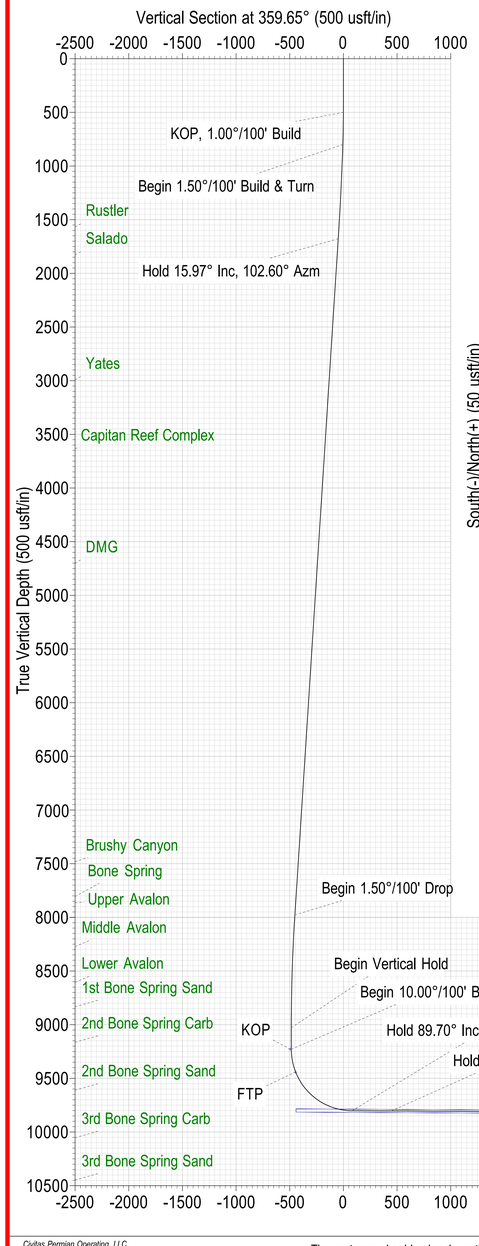
GL @ 3533.00 WELL @ 3559.50usft (H&P 376)

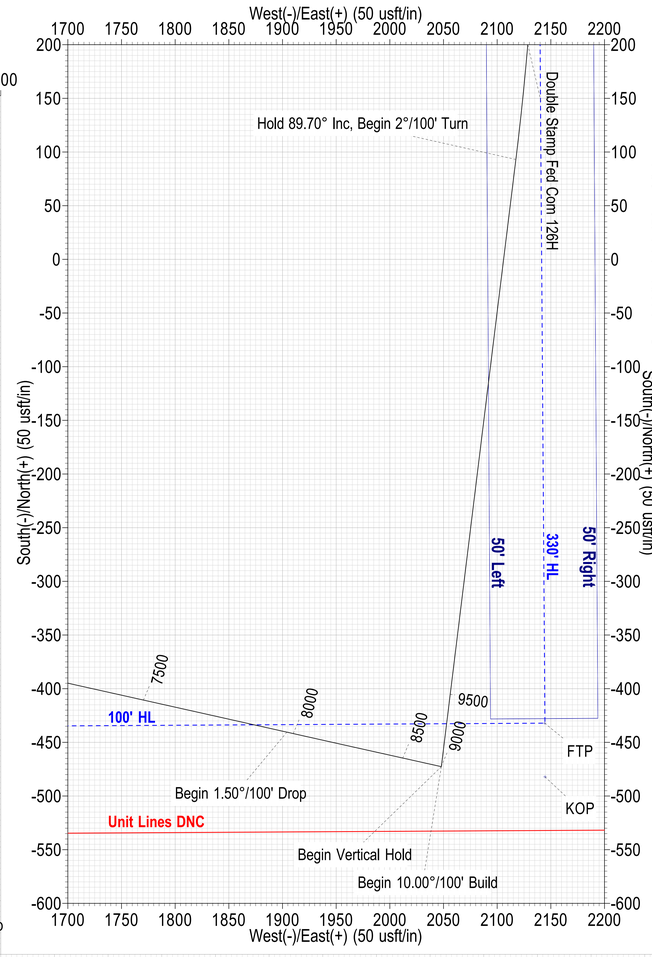
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	570674.04	725242.23	32.567421	-103.736368

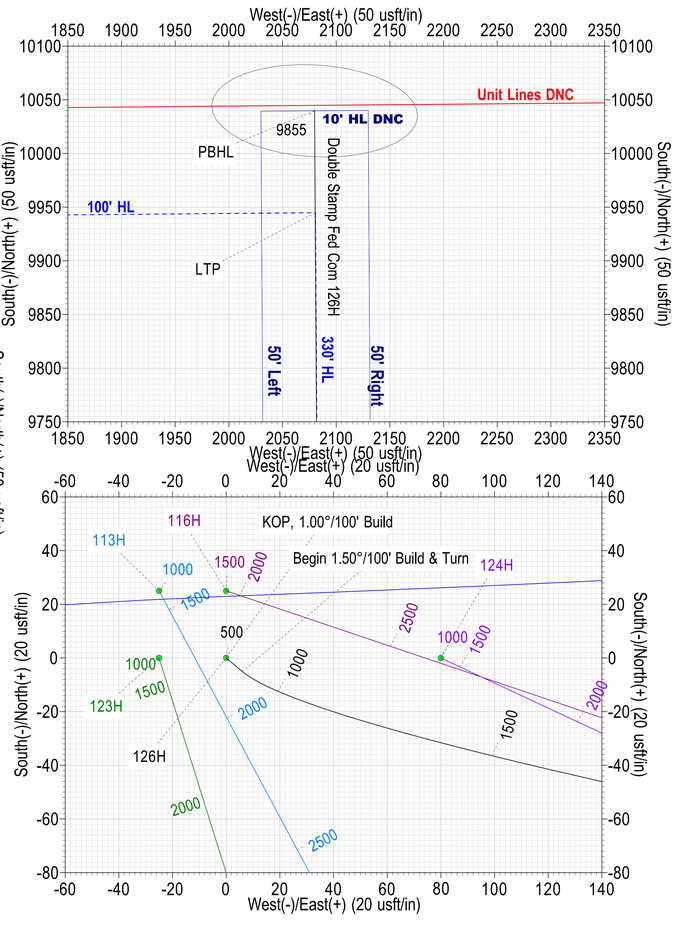
MS Directional

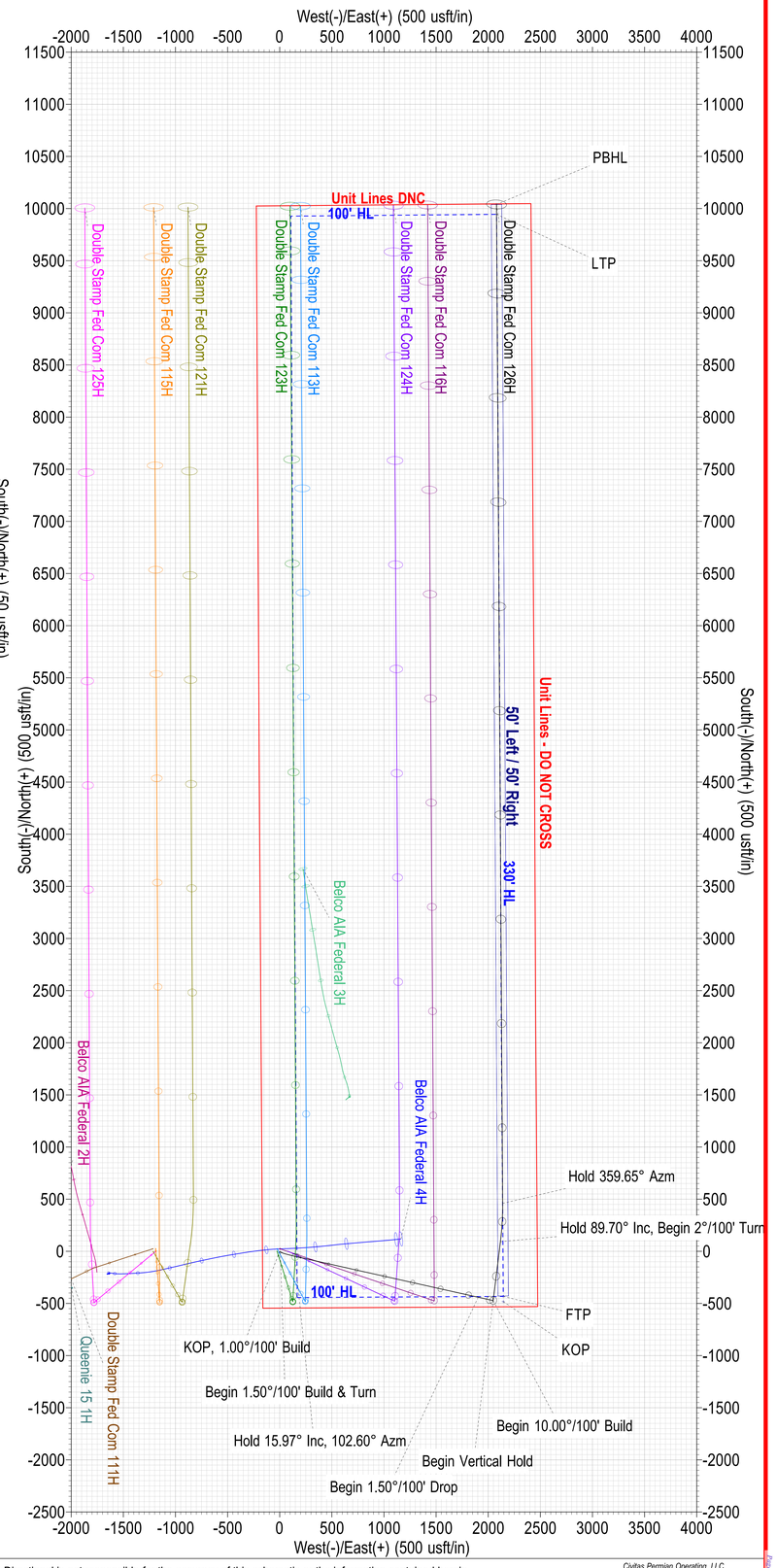
SURVEY PROGRAM

Depth From	Depth To	Survey/Plan	Tool
0.00	20355.05	Design #1 (Wellbore #1)	MWD+IFR1+SAG+FDIR









Civitas Permian Operating, LLC

Lea County, New Mexico (NAD 83)
Double Stamp E2-1 (113H,116H,123H,124H,126H)
Double Stamp Fed Com 126H

Wellbore #1

Plan: Design #1

Standard Planning Report

08 January, 2025

CIVITAS

MS Directional
Planning Report

MS Directional

Database:	TRG_EDMConroe	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 126H
Company:	Civitas Permian Operating, LLC	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Project:	Lea County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**North Reference:**	Grid
Well:	Double Stamp Fed Com 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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 E2-1 (113H,116H,123H,124H,126H)

Site Position:		**Northing:**	570,699.05 usft	**Latitude:**	32.567490
From:	Map	**Easting:**	725,217.22 usft	**Longitude:**	-103.736449
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "		

Well Double Stamp Fed Com 126H

Well Position	**+N/-S**	0.00 usft	**Northing:**	570,674.05 usft	**Latitude:**	32.567421
	+E/-W	0.00 usft	**Easting:**	725,242.22 usft	**Longitude:**	-103.736369
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,533.00 usft
Grid Convergence:		0.321 °				

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2025	3/5/2025	6.367	60.250	47,528.400

Design Design #1

Audit Notes:

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

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

Plan Survey Tool Program **Date** 1/8/2025

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	20,355.05	Design #1 (Wellbore #1)	MWD+IFR1+SAG+FDIR	
				OWSG MWD + IFR1 + Sag	

CIVITAS

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MS Directional

Database:	TRG_EDMConroe	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 126H
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Project:	Lea County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**North Reference:**	Grid
Well:	Double Stamp Fed Com 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.000	
800.00	3.00	130.00	799.86	-5.05	6.02	1.00	1.00	0.00	130.000	
1,691.85	15.97	102.60	1,677.88	-47.01	144.27	1.50	1.45	-3.07	-33.179	
8,245.37	15.97	102.60	7,978.42	-440.48	1,904.10	0.00	0.00	0.00	0.000	
9,310.15	0.00	0.00	9,029.46	-472.65	2,048.00	1.50	-1.50	0.00	180.000	
9,510.15	0.00	0.00	9,229.46	-472.65	2,048.00	0.00	0.00	0.00	0.000	
10,407.15	89.70	7.00	9,802.41	93.06	2,117.46	10.00	10.00	0.00	7.000	
10,774.74	89.70	359.65	9,804.34	459.78	2,138.76	2.00	0.00	-2.00	-90.019	
20,355.05	89.70	359.65	9,854.50	10,039.78	2,079.90	0.00	0.00	0.00	0.000	PBHL v1_Double S

CIVITAS

MS Directional
Planning Report

MS Directional

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Project:	Lea County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**North Reference:**	Grid
Well:	Double Stamp Fed Com 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, 1.00°/100' Build									
600.00	1.00	130.00	599.99	-0.56	0.67	-0.56	1.00	1.00	0.00
700.00	2.00	130.00	699.96	-2.24	2.67	-2.26	1.00	1.00	0.00
800.00	3.00	130.00	799.86	-5.05	6.02	-5.08	1.00	1.00	0.00
Begin 1.50°/100' Build & Turn									
900.00	4.33	119.07	899.66	-8.57	11.32	-8.63	1.50	1.33	-10.93
1,000.00	5.75	113.39	999.27	-12.39	19.22	-12.51	1.50	1.42	-5.68
1,100.00	7.20	109.97	1,098.63	-16.52	29.71	-16.70	1.50	1.45	-3.42
1,200.00	8.67	107.69	1,197.67	-20.95	42.78	-21.21	1.50	1.47	-2.27
1,300.00	10.14	106.07	1,296.32	-25.68	58.42	-26.03	1.50	1.48	-1.62
1,400.00	11.63	104.86	1,394.52	-30.70	76.62	-31.17	1.50	1.48	-1.21
1,500.00	13.11	103.92	1,492.20	-36.01	97.38	-36.61	1.50	1.49	-0.94
1,577.71	14.27	103.33	1,567.70	-40.34	115.25	-41.05	1.50	1.49	-0.77
Rustler									
1,600.00	14.60	103.17	1,589.28	-41.62	120.66	-42.35	1.50	1.49	-0.69
1,691.85	15.97	102.60	1,677.88	-47.01	144.27	-47.89	1.50	1.49	-0.62
Hold 15.97° Inc, 102.60° Azm									
1,700.00	15.97	102.60	1,685.72	-47.50	146.46	-48.40	0.00	0.00	0.00
1,800.00	15.97	102.60	1,781.86	-53.51	173.31	-54.56	0.00	0.00	0.00
1,848.00	15.97	102.60	1,828.00	-56.39	186.20	-57.52	0.00	0.00	0.00
Salado									
1,900.00	15.97	102.60	1,878.00	-59.51	200.16	-60.73	0.00	0.00	0.00
2,000.00	15.97	102.60	1,974.14	-65.51	227.02	-66.90	0.00	0.00	0.00
2,100.00	15.97	102.60	2,070.27	-71.52	253.87	-73.07	0.00	0.00	0.00
2,200.00	15.97	102.60	2,166.41	-77.52	280.72	-79.23	0.00	0.00	0.00
2,300.00	15.97	102.60	2,262.55	-83.52	307.58	-85.40	0.00	0.00	0.00
2,400.00	15.97	102.60	2,358.69	-89.53	334.43	-91.57	0.00	0.00	0.00
2,500.00	15.97	102.60	2,454.83	-95.53	361.28	-97.74	0.00	0.00	0.00
2,600.00	15.97	102.60	2,550.97	-101.54	388.14	-103.91	0.00	0.00	0.00
2,700.00	15.97	102.60	2,647.11	-107.54	414.99	-110.07	0.00	0.00	0.00
2,800.00	15.97	102.60	2,743.25	-113.54	441.84	-116.24	0.00	0.00	0.00
2,900.00	15.97	102.60	2,839.39	-119.55	468.70	-122.41	0.00	0.00	0.00
3,000.00	15.97	102.60	2,935.53	-125.55	495.55	-128.58	0.00	0.00	0.00
3,059.77	15.97	102.60	2,993.00	-129.14	511.60	-132.26	0.00	0.00	0.00
Yates									
3,100.00	15.97	102.60	3,031.67	-131.56	522.40	-134.74	0.00	0.00	0.00
3,200.00	15.97	102.60	3,127.81	-137.56	549.26	-140.91	0.00	0.00	0.00
3,300.00	15.97	102.60	3,223.95	-143.56	576.11	-147.08	0.00	0.00	0.00
3,400.00	15.97	102.60	3,320.09	-149.57	602.96	-153.25	0.00	0.00	0.00
3,500.00	15.97	102.60	3,416.23	-155.57	629.82	-159.42	0.00	0.00	0.00
3,600.00	15.97	102.60	3,512.37	-161.58	656.67	-165.58	0.00	0.00	0.00
3,700.00	15.97	102.60	3,608.51	-167.58	683.52	-171.75	0.00	0.00	0.00
3,723.91	15.97	102.60	3,631.50	-169.01	689.94	-173.23	0.00	0.00	0.00
Capitan Reef Complex									
3,800.00	15.97	102.60	3,704.65	-173.58	710.38	-177.92	0.00	0.00	0.00
3,900.00	15.97	102.60	3,800.79	-179.59	737.23	-184.09	0.00	0.00	0.00

CIVITAS

MS Directional
Planning Report

MS Directional

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Company:	Civitas Permian Operating, LLC	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Project:	Lea County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**North Reference:**	Grid
Well:	Double Stamp Fed Com 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,000.00	15.97	102.60	3,896.93	-185.59	764.08	-190.25	0.00	0.00	0.00
4,100.00	15.97	102.60	3,993.07	-191.59	790.93	-196.42	0.00	0.00	0.00
4,200.00	15.97	102.60	4,089.21	-197.60	817.79	-202.59	0.00	0.00	0.00
4,300.00	15.97	102.60	4,185.35	-203.60	844.64	-208.76	0.00	0.00	0.00
4,400.00	15.97	102.60	4,281.49	-209.61	871.49	-214.93	0.00	0.00	0.00
4,500.00	15.97	102.60	4,377.63	-215.61	898.35	-221.09	0.00	0.00	0.00
4,600.00	15.97	102.60	4,473.77	-221.61	925.20	-227.26	0.00	0.00	0.00
4,700.00	15.97	102.60	4,569.91	-227.62	952.05	-233.43	0.00	0.00	0.00
4,800.00	15.97	102.60	4,666.05	-233.62	978.91	-239.60	0.00	0.00	0.00
4,838.02	15.97	102.60	4,702.60	-235.90	989.12	-241.94	0.00	0.00	0.00
DMG									
4,900.00	15.97	102.60	4,762.19	-239.63	1,005.76	-245.76	0.00	0.00	0.00
5,000.00	15.97	102.60	4,858.33	-245.63	1,032.61	-251.93	0.00	0.00	0.00
5,100.00	15.97	102.60	4,954.47	-251.63	1,059.47	-258.10	0.00	0.00	0.00
5,200.00	15.97	102.60	5,050.61	-257.64	1,086.32	-264.27	0.00	0.00	0.00
5,300.00	15.97	102.60	5,146.75	-263.64	1,113.17	-270.44	0.00	0.00	0.00
5,400.00	15.97	102.60	5,242.89	-269.65	1,140.03	-276.60	0.00	0.00	0.00
5,500.00	15.97	102.60	5,339.03	-275.65	1,166.88	-282.77	0.00	0.00	0.00
5,600.00	15.97	102.60	5,435.17	-281.65	1,193.73	-288.94	0.00	0.00	0.00
5,700.00	15.97	102.60	5,531.31	-287.66	1,220.59	-295.11	0.00	0.00	0.00
5,800.00	15.97	102.60	5,627.45	-293.66	1,247.44	-301.28	0.00	0.00	0.00
5,900.00	15.97	102.60	5,723.59	-299.66	1,274.29	-307.44	0.00	0.00	0.00
6,000.00	15.97	102.60	5,819.73	-305.67	1,301.15	-313.61	0.00	0.00	0.00
6,100.00	15.97	102.60	5,915.87	-311.67	1,328.00	-319.78	0.00	0.00	0.00
6,200.00	15.97	102.60	6,012.01	-317.68	1,354.85	-325.95	0.00	0.00	0.00
6,300.00	15.97	102.60	6,108.15	-323.68	1,381.71	-332.11	0.00	0.00	0.00
6,400.00	15.97	102.60	6,204.28	-329.68	1,408.56	-338.28	0.00	0.00	0.00
6,500.00	15.97	102.60	6,300.42	-335.69	1,435.41	-344.45	0.00	0.00	0.00
6,600.00	15.97	102.60	6,396.56	-341.69	1,462.27	-350.62	0.00	0.00	0.00
6,700.00	15.97	102.60	6,492.70	-347.70	1,489.12	-356.79	0.00	0.00	0.00
6,800.00	15.97	102.60	6,588.84	-353.70	1,515.97	-362.95	0.00	0.00	0.00
6,900.00	15.97	102.60	6,684.98	-359.70	1,542.83	-369.12	0.00	0.00	0.00
7,000.00	15.97	102.60	6,781.12	-365.71	1,569.68	-375.29	0.00	0.00	0.00
7,100.00	15.97	102.60	6,877.26	-371.71	1,596.53	-381.46	0.00	0.00	0.00
7,200.00	15.97	102.60	6,973.40	-377.71	1,623.39	-387.62	0.00	0.00	0.00
7,300.00	15.97	102.60	7,069.54	-383.72	1,650.24	-393.79	0.00	0.00	0.00
7,400.00	15.97	102.60	7,165.68	-389.72	1,677.09	-399.96	0.00	0.00	0.00
7,500.00	15.97	102.60	7,261.82	-395.73	1,703.95	-406.13	0.00	0.00	0.00
7,600.00	15.97	102.60	7,357.96	-401.73	1,730.80	-412.30	0.00	0.00	0.00
7,700.00	15.97	102.60	7,454.10	-407.73	1,757.65	-418.46	0.00	0.00	0.00
7,728.19	15.97	102.60	7,481.20	-409.43	1,765.22	-420.20	0.00	0.00	0.00
Brushy Canyon									
7,800.00	15.97	102.60	7,550.24	-413.74	1,784.51	-424.63	0.00	0.00	0.00
7,900.00	15.97	102.60	7,646.38	-419.74	1,811.36	-430.80	0.00	0.00	0.00
8,000.00	15.97	102.60	7,742.52	-425.75	1,838.21	-436.97	0.00	0.00	0.00
8,066.65	15.97	102.60	7,806.60	-429.75	1,856.11	-441.08	0.00	0.00	0.00
Bone Spring									
8,100.00	15.97	102.60	7,838.66	-431.75	1,865.07	-443.13	0.00	0.00	0.00
8,126.46	15.97	102.60	7,864.10	-433.34	1,872.17	-444.77	0.00	0.00	0.00
Upper Avalon									
8,200.00	15.97	102.60	7,934.80	-437.75	1,891.92	-449.30	0.00	0.00	0.00
8,245.37	15.97	102.60	7,978.42	-440.48	1,904.10	-452.10	0.00	0.00	0.00
Begin 1.50°/100' Drop									

CIVITAS

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Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**North Reference:**	Grid
Well:	Double Stamp Fed Com 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,300.00	15.15	102.60	8,031.05	-443.68	1,918.41	-455.39	1.50	-1.50	0.00
8,400.00	13.65	102.60	8,127.90	-449.10	1,942.68	-460.96	1.50	-1.50	0.00
8,500.00	12.15	102.60	8,225.37	-453.97	1,964.47	-465.97	1.50	-1.50	0.00
8,547.94	11.43	102.60	8,272.30	-456.11	1,974.03	-468.16	1.50	-1.50	0.00
Middle Avalon									
8,600.00	10.65	102.60	8,323.40	-458.29	1,983.76	-470.40	1.50	-1.50	0.00
8,700.00	9.15	102.60	8,421.90	-462.04	2,000.54	-474.25	1.50	-1.50	0.00
8,800.00	7.65	102.60	8,520.83	-465.23	2,014.80	-477.53	1.50	-1.50	0.00
8,886.42	6.36	102.60	8,606.60	-467.53	2,025.09	-479.89	1.50	-1.50	0.00
Lower Avalon									
8,900.00	6.15	102.60	8,620.10	-467.85	2,026.53	-480.22	1.50	-1.50	0.00
9,000.00	4.65	102.60	8,719.65	-469.90	2,035.72	-482.33	1.50	-1.50	0.00
9,100.00	3.15	102.60	8,819.42	-471.39	2,042.36	-483.86	1.50	-1.50	0.00
9,113.60	2.95	102.60	8,833.00	-471.55	2,043.07	-484.02	1.50	-1.50	0.00
1st Bone Spring Sand									
9,200.00	1.65	102.60	8,919.33	-472.30	2,046.45	-484.80	1.50	-1.50	0.00
9,300.00	0.15	102.60	9,019.31	-472.65	2,047.99	-485.15	1.50	-1.50	0.00
9,310.15	0.00	0.00	9,029.46	-472.65	2,048.00	-485.15	1.50	-1.50	0.00
Begin Vertical Hold									
9,400.00	0.00	0.00	9,119.31	-472.65	2,048.00	-485.15	0.00	0.00	0.00
9,444.99	0.00	0.00	9,164.30	-472.65	2,048.00	-485.15	0.00	0.00	0.00
2nd Bone Spring Carb									
9,500.00	0.00	0.00	9,219.31	-472.65	2,048.00	-485.15	0.00	0.00	0.00
9,510.15	0.00	0.00	9,229.46	-472.65	2,048.00	-485.15	0.00	0.00	0.00
Begin 10.00°/100' Build									
9,550.00	3.99	7.00	9,269.28	-471.27	2,048.17	-483.78	10.00	10.00	0.00
9,600.00	8.99	7.00	9,318.94	-465.67	2,048.86	-478.18	10.00	10.00	0.00
9,650.00	13.99	7.00	9,367.93	-455.79	2,050.07	-468.31	10.00	10.00	0.00
9,700.00	18.99	7.00	9,415.86	-441.71	2,051.80	-454.24	10.00	10.00	0.00
9,750.00	23.99	7.00	9,462.37	-423.54	2,054.03	-436.08	10.00	10.00	0.00
9,800.00	28.99	7.00	9,507.11	-401.42	2,056.75	-413.98	10.00	10.00	0.00
9,850.00	33.99	7.00	9,549.73	-375.51	2,059.93	-388.08	10.00	10.00	0.00
9,900.00	38.99	7.00	9,589.92	-346.01	2,063.55	-358.61	10.00	10.00	0.00
9,925.66	41.55	7.00	9,609.50	-329.54	2,065.57	-342.16	10.00	10.00	0.00
2nd Bone Spring Sand									
9,950.00	43.99	7.00	9,627.36	-313.14	2,067.58	-325.77	10.00	10.00	0.00
10,000.00	48.99	7.00	9,661.78	-277.17	2,072.00	-289.82	10.00	10.00	0.00
10,050.00	53.99	7.00	9,692.91	-238.35	2,076.77	-251.03	10.00	10.00	0.00
10,100.00	58.99	7.00	9,720.50	-196.98	2,081.85	-209.70	10.00	10.00	0.00
10,150.00	63.99	7.00	9,744.37	-153.39	2,087.20	-166.14	10.00	10.00	0.00
10,200.00	68.99	7.00	9,764.31	-107.90	2,092.79	-120.68	10.00	10.00	0.00
10,250.00	73.99	7.00	9,780.18	-60.86	2,098.56	-73.67	10.00	10.00	0.00
10,300.00	78.99	7.00	9,791.86	-12.62	2,104.48	-25.47	10.00	10.00	0.00
10,350.00	83.99	7.00	9,799.26	36.45	2,110.51	23.55	10.00	10.00	0.00
10,400.00	88.99	7.00	9,802.33	85.97	2,116.59	73.03	10.00	10.00	0.00
10,407.15	89.70	7.00	9,802.41	93.06	2,117.46	80.12	10.00	10.00	0.00
Hold 89.70° Inc, Begin 2°/100' Turn									
10,500.00	89.70	5.14	9,802.90	185.39	2,127.28	172.39	2.00	0.00	-2.00
10,600.00	89.70	3.14	9,803.42	285.12	2,134.50	272.07	2.00	0.00	-2.00
10,700.00	89.70	1.14	9,803.95	385.04	2,138.24	371.97	2.00	0.00	-2.00
10,774.74	89.70	359.65	9,804.34	459.78	2,138.76	446.71	2.00	0.00	-2.00
Hold 359.65° Azm									

CIVITAS

MS Directional
Planning Report

MS Directional

Database:	TRG_EDMConroe	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 126H
Company:	Civitas Permian Operating, LLC	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Project:	Lea County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**North Reference:**	Grid
Well:	Double Stamp Fed Com 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,800.00	89.70	359.65	9,804.47	485.04	2,138.60	471.96	0.00	0.00	0.00
10,900.00	89.70	359.65	9,804.99	585.03	2,137.99	571.96	0.00	0.00	0.00
11,000.00	89.70	359.65	9,805.52	685.03	2,137.38	671.96	0.00	0.00	0.00
11,100.00	89.70	359.65	9,806.04	785.03	2,136.76	771.96	0.00	0.00	0.00
11,200.00	89.70	359.65	9,806.56	885.02	2,136.15	871.96	0.00	0.00	0.00
11,300.00	89.70	359.65	9,807.09	985.02	2,135.53	971.96	0.00	0.00	0.00
11,400.00	89.70	359.65	9,807.61	1,085.02	2,134.92	1,071.95	0.00	0.00	0.00
11,500.00	89.70	359.65	9,808.13	1,185.01	2,134.30	1,171.95	0.00	0.00	0.00
11,600.00	89.70	359.65	9,808.66	1,285.01	2,133.69	1,271.95	0.00	0.00	0.00
11,700.00	89.70	359.65	9,809.18	1,385.01	2,133.07	1,371.95	0.00	0.00	0.00
11,800.00	89.70	359.65	9,809.71	1,485.00	2,132.46	1,471.95	0.00	0.00	0.00
11,900.00	89.70	359.65	9,810.23	1,585.00	2,131.85	1,571.95	0.00	0.00	0.00
12,000.00	89.70	359.65	9,810.75	1,685.00	2,131.23	1,671.95	0.00	0.00	0.00
12,100.00	89.70	359.65	9,811.28	1,784.99	2,130.62	1,771.95	0.00	0.00	0.00
12,200.00	89.70	359.65	9,811.80	1,884.99	2,130.00	1,871.94	0.00	0.00	0.00
12,300.00	89.70	359.65	9,812.32	1,984.99	2,129.39	1,971.94	0.00	0.00	0.00
12,400.00	89.70	359.65	9,812.85	2,084.98	2,128.77	2,071.94	0.00	0.00	0.00
12,500.00	89.70	359.65	9,813.37	2,184.98	2,128.16	2,171.94	0.00	0.00	0.00
12,600.00	89.70	359.65	9,813.89	2,284.98	2,127.54	2,271.94	0.00	0.00	0.00
12,700.00	89.70	359.65	9,814.42	2,384.97	2,126.93	2,371.94	0.00	0.00	0.00
12,800.00	89.70	359.65	9,814.94	2,484.97	2,126.32	2,471.94	0.00	0.00	0.00
12,900.00	89.70	359.65	9,815.47	2,584.97	2,125.70	2,571.93	0.00	0.00	0.00
13,000.00	89.70	359.65	9,815.99	2,684.96	2,125.09	2,671.93	0.00	0.00	0.00
13,100.00	89.70	359.65	9,816.51	2,784.96	2,124.47	2,771.93	0.00	0.00	0.00
13,200.00	89.70	359.65	9,817.04	2,884.96	2,123.86	2,871.93	0.00	0.00	0.00
13,300.00	89.70	359.65	9,817.56	2,984.95	2,123.24	2,971.93	0.00	0.00	0.00
13,400.00	89.70	359.65	9,818.08	3,084.95	2,122.63	3,071.93	0.00	0.00	0.00
13,500.00	89.70	359.65	9,818.61	3,184.95	2,122.02	3,171.93	0.00	0.00	0.00
13,600.00	89.70	359.65	9,819.13	3,284.94	2,121.40	3,271.92	0.00	0.00	0.00
13,700.00	89.70	359.65	9,819.65	3,384.94	2,120.79	3,371.92	0.00	0.00	0.00
13,800.00	89.70	359.65	9,820.18	3,484.94	2,120.17	3,471.92	0.00	0.00	0.00
13,900.00	89.70	359.65	9,820.70	3,584.93	2,119.56	3,571.92	0.00	0.00	0.00
14,000.00	89.70	359.65	9,821.23	3,684.93	2,118.94	3,671.92	0.00	0.00	0.00
14,100.00	89.70	359.65	9,821.75	3,784.93	2,118.33	3,771.92	0.00	0.00	0.00
14,200.00	89.70	359.65	9,822.27	3,884.93	2,117.71	3,871.92	0.00	0.00	0.00
14,300.00	89.70	359.65	9,822.80	3,984.92	2,117.10	3,971.92	0.00	0.00	0.00
14,400.00	89.70	359.65	9,823.32	4,084.92	2,116.49	4,071.91	0.00	0.00	0.00
14,500.00	89.70	359.65	9,823.84	4,184.92	2,115.87	4,171.91	0.00	0.00	0.00
14,600.00	89.70	359.65	9,824.37	4,284.91	2,115.26	4,271.91	0.00	0.00	0.00
14,700.00	89.70	359.65	9,824.89	4,384.91	2,114.64	4,371.91	0.00	0.00	0.00
14,800.00	89.70	359.65	9,825.41	4,484.91	2,114.03	4,471.91	0.00	0.00	0.00
14,900.00	89.70	359.65	9,825.94	4,584.90	2,113.41	4,571.91	0.00	0.00	0.00
15,000.00	89.70	359.65	9,826.46	4,684.90	2,112.80	4,671.91	0.00	0.00	0.00
15,100.00	89.70	359.65	9,826.98	4,784.90	2,112.18	4,771.90	0.00	0.00	0.00
15,200.00	89.70	359.65	9,827.51	4,884.89	2,111.57	4,871.90	0.00	0.00	0.00
15,300.00	89.70	359.65	9,828.03	4,984.89	2,110.96	4,971.90	0.00	0.00	0.00
15,400.00	89.70	359.65	9,828.56	5,084.89	2,110.34	5,071.90	0.00	0.00	0.00
15,500.00	89.70	359.65	9,829.08	5,184.88	2,109.73	5,171.90	0.00	0.00	0.00
15,600.00	89.70	359.65	9,829.60	5,284.88	2,109.11	5,271.90	0.00	0.00	0.00
15,700.00	89.70	359.65	9,830.13	5,384.88	2,108.50	5,371.90	0.00	0.00	0.00
15,800.00	89.70	359.65	9,830.65	5,484.87	2,107.88	5,471.89	0.00	0.00	0.00
15,900.00	89.70	359.65	9,831.17	5,584.87	2,107.27	5,571.89	0.00	0.00	0.00
16,000.00	89.70	359.65	9,831.70	5,684.87	2,106.65	5,671.89	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 126H
Company:	Civitas Permian Operating, LLC	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Project:	Lea County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**North Reference:**	Grid
Well:	Double Stamp Fed Com 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,100.00	89.70	359.65	9,832.22	5,784.86	2,106.04	5,771.89	0.00	0.00	0.00
16,200.00	89.70	359.65	9,832.74	5,884.86	2,105.43	5,871.89	0.00	0.00	0.00
16,300.00	89.70	359.65	9,833.27	5,984.86	2,104.81	5,971.89	0.00	0.00	0.00
16,400.00	89.70	359.65	9,833.79	6,084.85	2,104.20	6,071.89	0.00	0.00	0.00
16,500.00	89.70	359.65	9,834.32	6,184.85	2,103.58	6,171.88	0.00	0.00	0.00
16,600.00	89.70	359.65	9,834.84	6,284.85	2,102.97	6,271.88	0.00	0.00	0.00
16,700.00	89.70	359.65	9,835.36	6,384.84	2,102.35	6,371.88	0.00	0.00	0.00
16,800.00	89.70	359.65	9,835.89	6,484.84	2,101.74	6,471.88	0.00	0.00	0.00
16,900.00	89.70	359.65	9,836.41	6,584.84	2,101.13	6,571.88	0.00	0.00	0.00
17,000.00	89.70	359.65	9,836.93	6,684.83	2,100.51	6,671.88	0.00	0.00	0.00
17,100.00	89.70	359.65	9,837.46	6,784.83	2,099.90	6,771.88	0.00	0.00	0.00
17,200.00	89.70	359.65	9,837.98	6,884.83	2,099.28	6,871.88	0.00	0.00	0.00
17,300.00	89.70	359.65	9,838.50	6,984.82	2,098.67	6,971.87	0.00	0.00	0.00
17,400.00	89.70	359.65	9,839.03	7,084.82	2,098.05	7,071.87	0.00	0.00	0.00
17,500.00	89.70	359.65	9,839.55	7,184.82	2,097.44	7,171.87	0.00	0.00	0.00
17,600.00	89.70	359.65	9,840.07	7,284.81	2,096.82	7,271.87	0.00	0.00	0.00
17,700.00	89.70	359.65	9,840.60	7,384.81	2,096.21	7,371.87	0.00	0.00	0.00
17,800.00	89.70	359.65	9,841.12	7,484.81	2,095.60	7,471.87	0.00	0.00	0.00
17,900.00	89.70	359.65	9,841.65	7,584.80	2,094.98	7,571.87	0.00	0.00	0.00
18,000.00	89.70	359.65	9,842.17	7,684.80	2,094.37	7,671.86	0.00	0.00	0.00
18,100.00	89.70	359.65	9,842.69	7,784.80	2,093.75	7,771.86	0.00	0.00	0.00
18,200.00	89.70	359.65	9,843.22	7,884.79	2,093.14	7,871.86	0.00	0.00	0.00
18,300.00	89.70	359.65	9,843.74	7,984.79	2,092.52	7,971.86	0.00	0.00	0.00
18,400.00	89.70	359.65	9,844.26	8,084.79	2,091.91	8,071.86	0.00	0.00	0.00
18,500.00	89.70	359.65	9,844.79	8,184.79	2,091.29	8,171.86	0.00	0.00	0.00
18,600.00	89.70	359.65	9,845.31	8,284.78	2,090.68	8,271.86	0.00	0.00	0.00
18,700.00	89.70	359.65	9,845.83	8,384.78	2,090.07	8,371.85	0.00	0.00	0.00
18,800.00	89.70	359.65	9,846.36	8,484.78	2,089.45	8,471.85	0.00	0.00	0.00
18,900.00	89.70	359.65	9,846.88	8,584.77	2,088.84	8,571.85	0.00	0.00	0.00
19,000.00	89.70	359.65	9,847.41	8,684.77	2,088.22	8,671.85	0.00	0.00	0.00
19,100.00	89.70	359.65	9,847.93	8,784.77	2,087.61	8,771.85	0.00	0.00	0.00
19,200.00	89.70	359.65	9,848.45	8,884.76	2,086.99	8,871.85	0.00	0.00	0.00
19,300.00	89.70	359.65	9,848.98	8,984.76	2,086.38	8,971.85	0.00	0.00	0.00
19,400.00	89.70	359.65	9,849.50	9,084.76	2,085.76	9,071.85	0.00	0.00	0.00
19,500.00	89.70	359.65	9,850.02	9,184.75	2,085.15	9,171.84	0.00	0.00	0.00
19,600.00	89.70	359.65	9,850.55	9,284.75	2,084.54	9,271.84	0.00	0.00	0.00
19,700.00	89.70	359.65	9,851.07	9,384.75	2,083.92	9,371.84	0.00	0.00	0.00
19,800.00	89.70	359.65	9,851.59	9,484.74	2,083.31	9,471.84	0.00	0.00	0.00
19,900.00	89.70	359.65	9,852.12	9,584.74	2,082.69	9,571.84	0.00	0.00	0.00
20,000.00	89.70	359.65	9,852.64	9,684.74	2,082.08	9,671.84	0.00	0.00	0.00
20,100.00	89.70	359.65	9,853.16	9,784.73	2,081.46	9,771.84	0.00	0.00	0.00
20,200.00	89.70	359.65	9,853.69	9,884.73	2,080.85	9,871.83	0.00	0.00	0.00
20,300.00	89.70	359.65	9,854.21	9,984.73	2,080.24	9,971.83	0.00	0.00	0.00
20,355.05	89.70	359.65	9,854.50	10,039.78	2,079.90	10,026.88	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 126H
Company:	Civitas Permian Operating, LLC	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Project:	Lea County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**North Reference:**	Grid
Well:	Double Stamp Fed Com 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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 v1_Double Stam	0.00	0.00	9,229.46	-482.15	2,144.64	570,191.90	727,386.86	32.566062	-103.729416
- plan misses target center by 97.11usft at 9510.23usft MD (9229.54 TVD, -472.65 N, 2048.00 E)									
- Point									
FTP v1_Double Stam	0.00	0.00	9,441.81	-432.15	2,144.29	570,241.90	727,386.51	32.566200	-103.729416
- plan misses target center by 91.22usft at 9731.76usft MD (9445.59 TVD, -430.64 N, 2053.16 E)									
- Point									
LTP v1_Double Stam	0.00	0.00	9,854.00	9,944.78	2,080.49	580,618.82	727,322.71	32.594723	-103.729432
- plan misses target center by 0.01usft at 20260.05usft MD (9854.00 TVD, 9944.78 N, 2080.48 E)									
- Point									
PBHL v1_Double Star	0.30	359.65	9,854.50	10,039.78	2,079.90	580,713.82	727,322.12	32.594984	-103.729433
- plan hits target center									
- Rectangle (sides W100.00 H10,468.00 D30.00)									

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,577.71	1,567.70	Rustler			
1,848.00	1,828.00	Salado			
3,059.77	2,993.00	Yates			
3,723.91	3,631.50	Capitan Reef Complex			
4,838.02	4,702.60	DMG			
7,728.19	7,481.20	Brushy Canyon			
8,066.65	7,806.60	Bone Spring			
8,126.46	7,864.10	Upper Avalon			
8,547.94	8,272.30	Middle Avalon			
8,886.42	8,606.60	Lower Avalon			
9,113.60	8,833.00	1st Bone Spring Sand			
9,444.99	9,164.30	2nd Bone Spring Carb			
9,925.66	9,609.50	2nd Bone Spring Sand			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
500.00	500.00	0.00	0.00	KOP, 1.00°/100' Build
800.00	799.86	-5.05	6.02	Begin 1.50°/100' Build & Turn
1,691.85	1,677.88	-47.01	144.27	Hold 15.97° Inc, 102.60° Azm
8,245.37	7,978.42	-440.48	1,904.10	Begin 1.50°/100' Drop
9,310.15	9,029.46	-472.65	2,048.00	Begin Vertical Hold
9,510.15	9,229.46	-472.65	2,048.00	Begin 10.00°/100' Build
10,407.15	9,802.41	93.06	2,117.46	Hold 89.70° Inc, Begin 2°/100' Turn
10,774.74	9,804.34	459.78	2,138.76	Hold 359.65° Azm
20,355.05	9,854.50	10,039.78	2,079.90	PBHL

Civitas Permian Operating, LLC

Lea County, New Mexico (NAD 83)
Double Stamp E2-1 (113H,116H,123H,124H,126H)
Double Stamp Fed Com 126H

Wellbore #1
Design #1

Anticollision Report

08 January, 2025

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**Offset TVD Reference:**	Offset Datum

Reference Design #1

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.00usft	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum centre distance of 2,500.00usft	**Error Surface:**	Pedal Curve
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Survey Tool Program **Date** 1/8/2025

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	20,355.05	Design #1 (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 - Surveys						Out of range
Belco AIA Federal 3H - Wellbore #1 - Surveys	1,900.00	1,820.16	1,578.81	1,571.00	202.334	CC
Belco AIA Federal 3H - Wellbore #1 - Surveys	2,100.00	2,010.71	1,579.70	1,570.42	170.296	ES
Belco AIA Federal 3H - Wellbore #1 - Surveys	4,800.00	4,496.00	1,753.00	1,724.48	61.472	SF
Belco AIA Federal 4H - Wellbore #1 - Surveys	5,229.54	7,594.80	370.49	284.25	4.296	CC, ES, SF
Queenie 15 1H - Wellbore #1 - Surveys	0.00	0.00	2,036.98			
Queenie 15 1H - Wellbore #1 - Surveys	300.00	286.06	2,037.53	2,035.77	1,155.867	ES
Queenie 15 1H - Wellbore #1 - Surveys	3,000.00	2,912.77	2,495.79	2,478.02	140.426	SF
Double Stamp E2-1 (113H,116H,123H,124H,126H)						
Double Stamp Fed Com 113H - Wellbore #1 - Design #1	500.00	500.00	35.36	31.96	10.415	CC, ES
Double Stamp Fed Com 113H - Wellbore #1 - Design #1	800.00	799.86	43.18	37.69	7.859	SF
Double Stamp Fed Com 116H - Wellbore #1 - Design #1	500.00	500.00	25.00	21.61	7.364	CC
Double Stamp Fed Com 116H - Wellbore #1 - Design #1	600.00	599.99	25.57	21.47	6.240	ES
Double Stamp Fed Com 116H - Wellbore #1 - Design #1	800.00	799.86	30.64	25.15	5.577	SF
Double Stamp Fed Com 123H - Wellbore #1 - Design #1	500.00	500.00	25.00	21.61	7.364	CC
Double Stamp Fed Com 123H - Wellbore #1 - Design #1	600.00	599.99	25.67	21.58	6.266	ES
Double Stamp Fed Com 123H - Wellbore #1 - Design #1	800.00	799.86	31.42	25.93	5.719	SF
Double Stamp Fed Com 124H - Wellbore #1 - Design #1	1,398.03	1,392.83	29.98	20.26	3.082	CC
Double Stamp Fed Com 124H - Wellbore #1 - Design #1	1,400.00	1,394.78	29.99	20.24	3.078	ES, SF
Double Stamp W2-1 (111H,115H,121H,125H)						
Double Stamp Fed Com 111H - Wellbore #1 - Design #1	500.00	498.00	1,214.60	1,211.21	358.547	CC
Double Stamp Fed Com 111H - Wellbore #1 - Design #1	600.00	597.99	1,215.28	1,211.19	297.096	ES
Double Stamp Fed Com 111H - Wellbore #1 - Design #1	3,800.00	3,157.24	2,458.22	2,434.68	104.404	SF
Double Stamp Fed Com 115H - Wellbore #1 - Design #1	500.00	498.00	1,189.60	1,186.22	351.168	CC
Double Stamp Fed Com 115H - Wellbore #1 - Design #1	600.00	597.99	1,190.28	1,186.19	290.985	ES
Double Stamp Fed Com 115H - Wellbore #1 - Design #1	6,100.00	5,945.00	2,487.71	2,444.93	58.145	SF
Double Stamp Fed Com 121H - Wellbore #1 - Design #1	500.00	498.00	1,214.34	1,210.95	358.471	CC
Double Stamp Fed Com 121H - Wellbore #1 - Design #1	600.00	597.99	1,215.01	1,210.92	297.030	ES
Double Stamp Fed Com 121H - Wellbore #1 - Design #1	6,900.00	6,762.01	2,484.80	2,435.80	50.716	SF
Double Stamp Fed Com 125H - Wellbore #1 - Design #1	500.00	498.00	1,189.34	1,185.95	351.091	CC
Double Stamp Fed Com 125H - Wellbore #1 - Design #1	600.00	597.99	1,190.01	1,185.92	290.919	ES
Double Stamp Fed Com 125H - Wellbore #1 - Design #1	4,800.00	4,422.41	2,484.26	2,452.11	77.265	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 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**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)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1,500.00	1,499.91	0.00	0.00	23.576	1,453.40	634.24	2,203.81				
100.00	100.00	1,500.00	1,499.91	0.26	0.00	23.576	1,453.40	634.24	2,135.58	2,134.03	1.55	1,375.481	
200.00	200.00	1,500.00	1,499.91	0.62	0.00	23.576	1,453.40	634.24	2,069.93	2,068.37	1.56	1,328.661	
300.00	300.00	1,500.00	1,499.91	0.98	0.00	23.576	1,453.40	634.24	2,007.12	2,005.50	1.62	1,238.805	
400.00	400.00	1,500.00	1,499.91	1.34	0.00	23.576	1,453.40	634.24	1,947.42	1,945.68	1.74	1,118.002	
500.00	500.00	1,500.00	1,499.91	1.70	0.00	23.576	1,453.40	634.24	1,891.13	1,889.21	1.92	985.054	
600.00	599.99	1,500.00	1,499.91	2.04	0.00	23.546	1,453.40	634.24	1,838.77	1,836.64	2.14	861.154	
700.00	699.96	1,500.00	1,499.91	2.38	0.00	23.455	1,453.40	634.24	1,790.93	1,788.54	2.38	751.223	
800.00	799.86	1,500.00	1,499.91	2.72	0.00	23.304	1,453.40	634.24	1,747.98	1,745.31	2.67	654.095	
900.00	899.66	1,500.00	1,499.91	3.07	0.00	23.078	1,453.40	634.24	1,709.74	1,706.74	3.00	570.536	
1,000.00	999.27	1,500.00	1,499.91	3.42	0.00	22.762	1,453.40	634.24	1,675.97	1,672.63	3.35	500.621	
1,100.00	1,098.63	1,500.00	1,499.91	3.78	0.00	22.356	1,453.40	634.24	1,646.98	1,643.27	3.72	443.324	
1,200.00	1,197.67	1,500.00	1,499.91	4.14	0.00	21.859	1,453.40	634.24	1,623.03	1,618.94	4.09	396.508	
1,300.00	1,296.32	1,500.00	1,499.91	4.51	0.00	21.272	1,453.40	634.24	1,604.38	1,599.90	4.48	358.312	
1,400.00	1,394.52	1,500.00	1,499.91	4.87	0.00	20.593	1,453.40	634.24	1,591.21	1,586.35	4.86	327.196	
1,500.00	1,492.20	1,500.00	1,499.91	5.25	0.00	19.822	1,453.40	634.24	1,583.68	1,578.43	5.25	301.909	
1,600.00	1,589.28	1,541.03	1,540.93	5.63	0.08	18.971	1,453.73	634.69	1,581.34	1,575.64	5.70	277.569	
1,691.85	1,677.88	1,623.64	1,623.53	5.98	0.32	18.130	1,454.42	635.87	1,580.04	1,573.75	6.29	251.213	
1,700.00	1,685.72	1,630.62	1,630.51	6.01	0.34	18.051	1,454.50	635.96	1,579.95	1,573.60	6.35	248.971	
1,800.00	1,781.86	1,726.68	1,726.56	6.40	0.68	17.074	1,455.87	636.90	1,579.16	1,572.08	7.08	223.132	
1,900.00	1,878.00	1,820.16	1,820.03	6.79	1.02	16.090	1,457.22	637.66	1,578.81	1,571.00	7.80	202.334 CC	
1,904.45	1,882.27	1,824.27	1,824.14	6.81	1.03	16.047	1,457.28	637.71	1,578.81	1,570.97	7.84	201.502	
2,000.00	1,974.14	1,917.68	1,917.52	7.18	1.37	15.130	1,458.57	639.09	1,579.03	1,570.48	8.55	184.756	
2,100.00	2,070.27	2,010.71	2,010.53	7.58	1.70	14.184	1,459.76	640.87	1,579.70	1,570.42	9.28	170.296 ES	
2,200.00	2,166.41	2,095.17	2,094.96	7.98	2.01	13.242	1,461.23	642.81	1,581.31	1,571.33	9.98	158.507	
2,300.00	2,262.55	2,196.95	2,196.69	8.38	2.37	12.317	1,463.11	645.27	1,583.47	1,572.73	10.74	147.414	
2,400.00	2,358.69	2,285.25	2,284.93	8.78	2.69	11.401	1,464.80	647.87	1,586.20	1,574.75	11.46	138.432	
2,500.00	2,454.83	2,371.20	2,370.81	9.18	3.00	10.487	1,466.97	650.52	1,589.95	1,577.78	12.17	130.678	
2,600.00	2,550.97	2,459.40	2,458.94	9.59	3.32	9.577	1,469.53	653.22	1,594.46	1,581.58	12.88	123.756	
2,700.00	2,647.11	2,540.55	2,539.96	9.99	3.62	8.694	1,472.65	656.61	1,600.39	1,586.82	13.57	117.898	
2,800.00	2,743.25	2,655.66	2,654.85	10.40	4.04	7.884	1,476.83	662.08	1,606.59	1,592.19	14.40	111.575	
2,900.00	2,839.39	2,790.27	2,789.42	10.81	4.53	6.975	1,479.43	664.32	1,611.01	1,595.72	15.29	105.357	
3,000.00	2,935.53	2,891.52	2,890.65	11.22	4.89	6.070	1,480.26	666.31	1,614.93	1,598.87	16.06	100.583	
3,100.00	3,031.67	3,002.37	3,001.47	11.62	5.28	5.175	1,480.44	668.41	1,618.59	1,601.74	16.85	96.047	
3,200.00	3,127.81	3,093.44	3,092.53	12.03	5.60	4.250	1,480.46	669.50	1,622.49	1,604.92	17.57	92.319	
3,300.00	3,223.95	3,195.47	3,194.56	12.44	5.96	3.313	1,480.55	670.12	1,626.83	1,608.50	18.33	88.733	
3,400.00	3,320.09	3,294.99	3,294.08	12.85	6.31	2.370	1,480.36	670.42	1,631.33	1,612.25	19.08	85.504	
3,500.00	3,416.23	3,377.29	3,376.38	13.26	6.60	1.437	1,480.60	670.87	1,636.72	1,616.95	19.77	82.807	
3,600.00	3,512.37	3,478.30	3,477.39	13.67	6.96	0.514	1,481.02	671.39	1,642.67	1,622.15	20.52	80.038	
3,700.00	3,608.51	3,574.23	3,573.32	14.08	7.30	-0.397	1,481.21	672.10	1,648.83	1,627.57	21.26	77.548	
3,800.00	3,704.65	3,664.03	3,663.11	14.49	7.62	-1.296	1,481.64	672.94	1,655.68	1,633.71	21.98	75.341	
3,900.00	3,800.79	3,753.84	3,752.91	14.91	7.94	-2.186	1,482.45	673.79	1,663.34	1,640.65	22.69	73.314	
4,000.00	3,896.93	3,842.81	3,841.87	15.32	8.26	-3.079	1,483.56	674.30	1,671.74	1,648.35	23.39	71.466	
4,100.00	3,993.07	3,950.83	3,949.88	15.73	8.63	-3.984	1,485.21	674.14	1,680.91	1,656.75	24.16	69.574	
4,200.00	4,089.21	4,066.89	4,065.93	16.14	9.02	-4.927	1,484.88	672.76	1,688.73	1,663.79	24.94	67.715	
4,300.00	4,185.35	4,161.96	4,160.99	16.55	9.33	-5.860	1,484.37	671.40	1,696.85	1,671.21	25.64	66.188	
4,400.00	4,281.49	4,258.34	4,257.36	16.97	9.64	-6.782	1,483.88	670.10	1,705.43	1,679.09	26.34	64.747	
4,500.00	4,377.63	4,354.80	4,353.82	17.38	9.96	-7.687	1,483.37	669.03	1,714.40	1,687.35	27.04	63.393	
4,600.00	4,473.77	4,434.00	4,433.01	17.79	10.23	-8.572	1,483.05	668.25	1,723.95	1,696.27	27.68	62.275	

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 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**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
4,700.00	4,569.91	4,467.02	4,466.02	18.21	10.34	-9.422	1,483.76	668.06	1,736.34	1,708.21	28.13	61.735	
4,800.00	4,666.05	4,496.00	4,494.92	18.62	10.45	-10.245	1,485.86	668.12	1,753.00	1,724.48	28.52	61.472	SF
4,900.00	4,762.19	4,510.82	4,509.63	19.03	10.50	-11.058	1,487.58	668.21	1,773.83	1,745.04	28.79	61.610	
5,000.00	4,858.33	4,527.00	4,525.65	19.45	10.56	-11.855	1,489.89	668.31	1,798.91	1,769.88	29.02	61.980	
5,100.00	4,954.47	4,558.00	4,556.07	19.86	10.67	-12.619	1,495.80	668.25	1,828.09	1,798.78	29.31	62.366	
5,200.00	5,050.61	4,558.00	4,556.07	20.27	10.67	-13.411	1,495.80	668.25	1,861.36	1,832.01	29.35	63.422	
5,300.00	5,146.75	4,589.00	4,586.05	20.69	10.79	-14.149	1,503.68	667.64	1,898.16	1,868.59	29.57	64.188	
5,400.00	5,242.89	4,602.46	4,598.88	21.10	10.84	-14.898	1,507.72	667.17	1,938.82	1,909.18	29.63	65.425	
5,500.00	5,339.03	4,620.00	4,615.37	21.52	10.90	-15.629	1,513.63	666.32	1,983.06	1,953.36	29.70	66.767	
5,600.00	5,435.17	4,620.00	4,615.37	21.93	10.90	-16.372	1,513.63	666.32	2,030.81	2,001.21	29.59	68.621	
5,700.00	5,531.31	4,651.00	4,643.83	22.34	11.02	-17.055	1,525.72	664.30	2,081.39	2,051.65	29.74	69.991	
5,800.00	5,627.45	4,661.04	4,652.86	22.76	11.05	-17.754	1,530.04	663.53	2,134.98	2,105.29	29.68	71.925	
5,900.00	5,723.59	4,673.00	4,663.51	23.17	11.10	-18.435	1,535.40	662.60	2,191.27	2,161.64	29.63	73.943	
6,000.00	5,819.73	4,673.00	4,663.51	23.59	11.10	-19.128	1,535.40	662.60	2,250.45	2,220.99	29.46	76.377	
6,100.00	5,915.87	4,706.87	4,692.98	24.00	11.23	-19.737	1,551.77	659.42	2,311.10	2,281.49	29.61	78.053	
6,200.00	6,012.01	4,739.00	4,719.92	24.42	11.36	-20.339	1,568.84	655.55	2,374.77	2,345.03	29.74	79.840	
6,300.00	6,108.15	4,739.00	4,719.92	24.83	11.36	-20.992	1,568.84	655.55	2,439.74	2,410.17	29.57	82.509	

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**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	-97.619	-220.68	-1,649.71	1,664.67				
100.00	100.00	64.56	64.56	0.26	0.08	-97.615	-220.58	-1,649.84	1,664.53	1,664.19	0.34	4,850.039	
200.00	200.00	161.42	161.42	0.62	0.34	-97.598	-220.14	-1,650.40	1,665.05	1,664.09	0.96	1,732.959	
300.00	300.00	261.64	261.63	0.98	0.69	-97.580	-219.71	-1,651.01	1,665.59	1,663.92	1.67	997.293	
400.00	400.00	361.04	361.03	1.34	1.04	-97.564	-219.32	-1,651.60	1,666.13	1,663.75	2.38	701.112	
500.00	500.00	461.48	461.47	1.70	1.39	-97.550	-218.99	-1,652.23	1,666.70	1,663.61	3.09	540.017	
600.00	599.99	562.39	562.38	2.04	1.74	-97.518	-218.76	-1,652.77	1,667.80	1,664.01	3.78	440.724	
700.00	699.96	662.92	662.91	2.38	2.10	-97.444	-218.62	-1,653.27	1,670.04	1,665.56	4.47	373.335	
800.00	799.86	761.94	761.92	2.72	2.44	-97.325	-218.40	-1,653.76	1,673.45	1,668.29	5.16	324.127	
900.00	899.66	859.01	858.99	3.07	2.78	-97.172	-218.17	-1,654.35	1,678.84	1,672.99	5.85	286.908	
1,000.00	999.27	957.48	957.46	3.42	3.13	-97.002	-218.02	-1,655.09	1,686.93	1,680.38	6.55	257.562	
1,100.00	1,098.63	1,057.95	1,057.92	3.78	3.48	-96.819	-218.06	-1,655.79	1,697.55	1,690.29	7.26	233.925	
1,200.00	1,197.67	1,166.13	1,166.11	4.14	3.86	-96.615	-217.98	-1,656.32	1,710.49	1,702.50	7.99	214.073	
1,300.00	1,296.32	1,275.86	1,275.84	4.51	4.11	-96.400	-218.00	-1,656.09	1,725.28	1,716.69	8.60	200.653	
1,400.00	1,394.52	1,385.82	1,385.79	4.87	4.14	-96.170	-217.91	-1,655.17	1,742.01	1,733.02	8.99	193.824	
1,500.00	1,492.20	1,483.03	1,482.99	5.25	4.20	-95.924	-217.74	-1,653.99	1,760.88	1,751.48	9.40	187.272	
1,600.00	1,589.28	1,591.03	1,590.98	5.63	4.30	-95.665	-217.50	-1,652.39	1,782.03	1,772.17	9.86	180.799	
1,691.85	1,677.88	1,686.08	1,686.02	5.98	4.41	-95.415	-217.16	-1,650.65	1,803.36	1,793.06	10.30	175.162	
1,700.00	1,685.72	1,695.56	1,695.50	6.01	4.42	-95.392	-217.11	-1,650.45	1,805.32	1,794.98	10.34	174.616	
1,800.00	1,781.86	1,789.92	1,789.83	6.40	4.56	-95.113	-216.51	-1,648.37	1,829.34	1,818.52	10.82	168.999	
1,900.00	1,878.00	1,881.65	1,881.54	6.79	4.71	-94.844	-216.02	-1,646.74	1,853.82	1,842.49	11.33	163.646	
2,000.00	1,974.14	1,974.89	1,974.77	7.18	4.88	-94.571	-215.20	-1,645.17	1,878.40	1,866.55	11.85	158.495	
2,100.00	2,070.27	2,066.68	2,066.54	7.58	5.07	-94.309	-214.49	-1,643.87	1,903.29	1,890.90	12.39	153.622	
2,200.00	2,166.41	2,162.13	2,161.98	7.98	5.28	-94.067	-214.29	-1,642.65	1,928.39	1,915.44	12.95	148.917	
2,300.00	2,262.55	2,292.92	2,292.74	8.38	5.58	-93.868	-215.19	-1,639.90	1,952.83	1,939.21	13.62	143.401	
2,400.00	2,358.69	2,374.99	2,374.78	8.78	5.78	-93.662	-215.75	-1,637.71	1,976.70	1,962.52	14.17	139.459	
2,500.00	2,454.83	2,445.45	2,445.23	9.18	5.96	-93.445	-215.81	-1,636.45	2,001.44	1,986.74	14.70	136.158	
2,600.00	2,550.97	2,523.59	2,523.36	9.59	6.16	-93.217	-215.31	-1,636.18	2,027.51	2,012.26	15.25	132.978	
2,700.00	2,647.11	2,607.94	2,607.71	9.99	6.38	-92.976	-214.19	-1,636.49	2,054.27	2,038.46	15.81	129.909	
2,800.00	2,743.25	2,714.31	2,714.06	10.40	6.67	-92.736	-212.89	-1,636.67	2,080.88	2,064.43	16.46	126.428	
2,900.00	2,839.39	2,826.77	2,826.52	10.81	6.99	-92.537	-212.82	-1,636.25	2,107.08	2,089.93	17.14	122.914	
3,000.00	2,935.53	2,923.70	2,923.45	11.22	7.27	-92.351	-213.05	-1,635.42	2,132.84	2,115.06	17.78	119.949	
3,100.00	3,031.67	6,979.00	5,074.98	11.62	51.81	-22.000	52.75	447.94	2,082.31	2,059.50	22.81	91.295	
3,200.00	3,127.81	6,995.94	5,075.43	12.03	52.21	-23.728	54.67	464.76	1,988.24	1,964.97	23.27	85.437	
3,300.00	3,223.95	7,010.00	5,075.93	12.44	52.54	-25.984	56.25	478.72	1,894.56	1,870.80	23.76	79.738	
3,400.00	3,320.09	7,029.95	5,076.77	12.85	53.00	-26.660	58.40	498.54	1,801.28	1,776.96	24.32	74.061	
3,500.00	3,416.23	7,051.53	5,077.84	13.26	53.51	-26.932	60.63	519.98	1,708.40	1,683.46	24.94	68.490	
3,600.00	3,512.37	7,082.78	5,079.44	13.67	54.25	-25.107	63.90	551.01	1,615.87	1,590.20	25.67	62.945	
3,700.00	3,608.51	7,177.42	5,082.34	14.08	56.48	-9.059	73.01	645.16	1,522.94	1,496.22	26.72	56.991	
3,800.00	3,704.65	7,197.50	5,082.63	14.49	56.96	-10.320	74.72	665.16	1,429.93	1,402.36	27.56	51.876	
3,900.00	3,800.79	7,224.77	5,083.12	14.91	57.60	-9.923	77.01	692.34	1,337.45	1,308.89	28.56	46.836	
4,000.00	3,896.93	7,256.55	5,083.61	15.32	58.35	-8.591	79.85	723.98	1,245.45	1,215.73	29.72	41.902	
4,100.00	3,993.07	7,291.68	5,083.96	15.73	59.19	-6.639	83.03	758.97	1,154.00	1,122.89	31.10	37.101	
4,200.00	4,089.21	7,326.83	5,084.08	16.14	60.02	-4.796	86.06	793.99	1,063.18	1,030.44	32.74	32.470	
4,300.00	4,185.35	7,357.15	5,084.01	16.55	60.74	-4.002	88.57	824.20	973.28	938.57	34.71	28.043	
4,400.00	4,281.49	7,386.33	5,083.84	16.97	61.43	-3.467	90.96	853.28	884.68	847.56	37.12	23.835	
4,500.00	4,377.63	7,414.49	5,083.58	17.38	62.10	-3.151	93.25	881.35	797.85	757.73	40.12	19.887	
4,600.00	4,473.77	7,441.86	5,083.24	17.79	62.75	-2.992	95.46	908.63	713.51	669.60	43.91	16.250	
4,700.00	4,569.91	7,467.83	5,082.83	18.21	63.37	-3.089	97.56	934.51	632.67	583.96	48.71	12.989	
4,800.00	4,666.05	7,492.68	5,082.43	18.62	63.96	-3.372	99.55	959.28	556.96	502.20	54.76	10.170	

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 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**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
4,900.00	4,762.19	7,517.54	5,082.04	19.03	64.56	-3.641	101.54	984.05	488.78	426.56	62.22	7.856	
5,000.00	4,858.33	7,538.06	5,081.80	19.45	65.04	-4.608	103.23	1,004.50	431.84	361.09	70.75	6.104	
5,100.00	4,954.47	7,561.85	5,081.77	19.86	65.61	-5.006	105.30	1,028.20	391.11	311.89	79.21	4.937	
5,200.00	5,050.61	7,587.85	5,081.74	20.27	66.23	-5.042	107.56	1,054.10	371.59	286.30	85.29	4.357	
5,229.54	5,079.01	7,594.80	5,081.74	20.40	66.40	-5.165	108.17	1,061.03	370.49	284.25	86.24	4.296	CC, ES, SF
5,300.00	5,146.75	7,611.93	5,081.85	20.69	66.81	-5.369	109.75	1,078.08	376.71	289.97	86.74	4.343	
5,400.00	5,242.89	7,637.64	5,082.23	21.10	67.42	-5.439	112.27	1,103.66	405.44	321.69	83.75	4.841	
5,500.00	5,339.03	7,665.36	5,082.89	21.52	68.08	-5.212	115.16	1,131.23	453.18	374.76	78.42	5.779	
5,600.00	5,435.17	7,693.86	5,083.61	21.93	68.76	-4.886	118.17	1,159.56	514.53	441.87	72.67	7.081	
5,700.00	5,531.31	7,698.00	5,083.71	22.34	68.86	-7.975	118.60	1,163.67	585.74	518.93	66.81	8.768	
5,800.00	5,627.45	7,698.00	5,083.71	22.76	68.86	-11.486	118.60	1,163.67	664.39	602.67	61.72	10.764	
5,900.00	5,723.59	7,698.00	5,083.71	23.17	68.86	-14.814	118.60	1,163.67	748.16	690.60	57.56	12.998	
6,000.00	5,819.73	7,698.00	5,083.71	23.59	68.86	-17.954	118.60	1,163.67	835.50	781.30	54.20	15.415	
6,100.00	5,915.87	7,698.00	5,083.71	24.00	68.86	-20.903	118.60	1,163.67	925.42	873.92	51.49	17.972	
6,200.00	6,012.01	7,698.00	5,083.71	24.42	68.86	-23.664	118.60	1,163.67	1,017.21	967.90	49.31	20.629	
6,300.00	6,108.15	7,698.00	5,083.71	24.83	68.86	-26.242	118.60	1,163.67	1,110.43	1,062.89	47.54	23.358	
6,400.00	6,204.28	7,698.00	5,083.71	25.25	68.86	-28.647	118.60	1,163.67	1,204.73	1,158.63	46.10	26.134	
6,500.00	6,300.42	7,698.00	5,083.71	25.66	68.86	-30.886	118.60	1,163.67	1,299.88	1,254.96	44.92	28.938	
6,600.00	6,396.56	7,698.00	5,083.71	26.08	68.86	-32.972	118.60	1,163.67	1,395.72	1,351.76	43.95	31.755	
6,700.00	6,492.70	7,698.00	5,083.71	26.49	68.86	-34.913	118.60	1,163.67	1,492.10	1,448.94	43.16	34.573	
6,800.00	6,588.84	7,698.00	5,083.71	26.91	68.86	-36.720	118.60	1,163.67	1,588.92	1,546.42	42.50	37.384	
6,900.00	6,684.98	7,698.00	5,083.71	27.32	68.86	-38.404	118.60	1,163.67	1,686.12	1,644.16	41.96	40.179	
7,000.00	6,781.12	7,698.00	5,083.71	27.74	68.86	-39.974	118.60	1,163.67	1,783.63	1,742.10	41.52	42.954	
7,100.00	6,877.26	7,698.00	5,083.71	28.15	68.86	-41.439	118.60	1,163.67	1,881.40	1,840.23	41.16	45.704	
7,200.00	6,973.40	7,698.00	5,083.71	28.57	68.86	-42.807	118.60	1,163.67	1,979.39	1,938.51	40.87	48.425	
7,300.00	7,069.54	7,698.00	5,083.71	28.98	68.86	-44.087	118.60	1,163.67	2,077.57	2,036.93	40.64	51.116	
7,400.00	7,165.68	7,698.00	5,083.71	29.40	68.86	-45.286	118.60	1,163.67	2,175.92	2,135.46	40.46	53.773	
7,500.00	7,261.82	7,698.00	5,083.71	29.81	68.86	-46.409	118.60	1,163.67	2,274.41	2,234.08	40.33	56.396	
7,600.00	7,357.96	7,698.00	5,083.71	30.23	68.86	-47.464	118.60	1,163.67	2,373.03	2,332.80	40.23	58.984	
7,700.00	7,454.10	7,698.00	5,083.71	30.64	68.86	-48.455	118.60	1,163.67	2,471.76	2,431.59	40.17	61.534	

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 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp - Offsets (NAD 83) - Queenie 15 1H - Wellbore #1 - Surveys

Offset Site Error: 0.00 usft

Survey Program: 100-GYRO-NS, 1245-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	-99.951	-351.99	-2,006.34	2,036.98				
100.00	100.00	94.86	94.86	0.26	0.12	-99.953	-352.08	-2,006.38	2,037.04	2,036.65	0.39	5,250.681	
200.00	200.00	194.35	194.35	0.62	0.46	-99.958	-352.28	-2,006.50	2,037.19	2,036.10	1.08	1,880.700	
300.00	300.00	286.06	286.06	0.98	0.78	-99.964	-352.54	-2,006.77	2,037.53	2,035.77	1.76	1,155.867 ES	
400.00	400.00	378.90	378.89	1.34	1.11	-99.972	-352.96	-2,007.40	2,038.28	2,035.83	2.45	833.088	
500.00	500.00	481.21	481.20	1.70	1.47	-99.984	-353.53	-2,008.24	2,039.18	2,036.02	3.16	644.563	
600.00	599.99	588.73	588.72	2.04	1.85	-99.975	-353.98	-2,008.84	2,040.37	2,036.49	3.88	525.208	
700.00	699.96	692.49	692.48	2.38	2.21	-99.927	-354.32	-2,009.13	2,042.38	2,037.80	4.58	445.460	
800.00	799.86	790.83	790.82	2.72	2.55	-99.840	-354.60	-2,009.35	2,045.47	2,040.19	5.27	387.992	
900.00	899.66	889.23	889.21	3.07	2.90	-99.716	-354.59	-2,009.71	2,050.45	2,044.49	5.96	343.753	
1,000.00	999.27	985.49	985.48	3.42	3.23	-99.563	-354.28	-2,010.21	2,058.06	2,051.41	6.66	309.246	
1,100.00	1,098.63	1,080.36	1,080.34	3.78	3.57	-99.390	-353.98	-2,010.89	2,068.38	2,061.03	7.34	281.694	
1,200.00	1,197.67	1,186.74	1,186.71	4.14	3.83	-99.200	-353.76	-2,011.95	2,081.53	2,073.56	7.96	261.336	
1,300.00	1,296.32	1,310.72	1,310.69	4.51	3.96	-98.975	-352.62	-2,011.63	2,095.78	2,087.32	8.45	247.939	
1,400.00	1,394.52	1,415.75	1,415.70	4.87	4.02	-98.728	-351.18	-2,010.81	2,112.02	2,103.16	8.87	238.168	
1,500.00	1,492.20	1,510.24	1,510.18	5.25	4.10	-98.471	-349.84	-2,009.92	2,130.64	2,121.33	9.31	228.902	
1,600.00	1,589.28	1,602.87	1,602.80	5.63	4.21	-98.198	-348.47	-2,009.41	2,152.12	2,142.35	9.77	220.255	
1,691.85	1,677.88	1,692.49	1,692.41	5.98	4.33	-97.934	-347.08	-2,008.89	2,174.03	2,163.81	10.22	212.664	
1,700.00	1,685.72	1,700.19	1,700.11	6.01	4.35	-97.910	-346.95	-2,008.85	2,176.07	2,165.80	10.27	211.978	
1,800.00	1,781.86	1,800.67	1,800.57	6.40	4.51	-97.618	-345.27	-2,008.26	2,201.09	2,190.31	10.78	204.154	
1,900.00	1,878.00	1,906.09	1,905.97	6.79	4.71	-97.335	-343.65	-2,007.22	2,225.81	2,214.48	11.33	196.455	
2,000.00	1,974.14	2,006.57	2,006.44	7.18	4.91	-97.097	-343.49	-2,005.74	2,250.26	2,238.38	11.89	189.314	
2,100.00	2,070.27	2,114.64	2,114.49	7.58	5.14	-96.875	-343.71	-2,003.79	2,274.49	2,262.01	12.48	182.281	
2,200.00	2,166.41	2,228.72	2,228.53	7.98	5.41	-96.684	-344.89	-2,000.88	2,298.12	2,285.02	13.10	175.384	
2,300.00	2,262.55	2,335.84	2,335.56	8.38	5.67	-96.522	-347.03	-1,997.17	2,320.99	2,307.27	13.73	169.095	
2,400.00	2,358.69	2,397.00	2,396.67	8.78	5.83	-96.346	-348.59	-1,995.12	2,344.26	2,330.03	14.23	164.742	
2,500.00	2,454.83	2,463.79	2,463.40	9.18	6.00	-96.190	-350.96	-1,993.75	2,368.87	2,354.12	14.75	160.611	
2,600.00	2,550.97	2,535.12	2,534.66	9.59	6.19	-96.053	-354.10	-1,993.65	2,395.18	2,379.90	15.28	156.742	
2,700.00	2,647.11	2,690.41	2,689.92	9.99	6.61	-95.883	-355.66	-1,993.15	2,421.31	2,405.22	16.09	150.527	
2,800.00	2,743.25	2,796.80	2,796.26	10.40	6.92	-95.629	-353.31	-1,990.96	2,445.21	2,428.46	16.76	145.919	
2,900.00	2,839.39	2,865.00	2,864.42	10.81	7.12	-95.388	-351.45	-1,989.98	2,469.74	2,452.44	17.30	142.735	
3,000.00	2,935.53	2,912.77	2,912.17	11.22	7.26	-95.162	-350.08	-1,990.04	2,495.79	2,478.02	17.77	140.426 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 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**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
0.00	0.00	0.00	0.00	0.00	0.00	-45.000	25.00	-25.00	35.36				
100.00	100.00	100.00	100.00	0.26	0.26	-45.000	25.00	-25.00	35.36	34.83	0.53	67.094	
200.00	200.00	200.00	200.00	0.62	0.62	-45.000	25.00	-25.00	35.36	34.11	1.24	28.423	
300.00	300.00	300.00	300.00	0.98	0.98	-45.000	25.00	-25.00	35.36	33.39	1.96	18.031	
400.00	400.00	400.00	400.00	1.34	1.34	-45.000	25.00	-25.00	35.36	32.68	2.68	13.203	
500.00	500.00	500.00	500.00	1.70	1.70	-45.000	25.00	-25.00	35.36	31.96	3.39	10.415	CC, ES
600.00	599.99	599.99	599.99	2.04	2.06	-45.120	25.00	-25.00	36.22	32.13	4.10	8.840	
700.00	699.96	699.96	699.96	2.38	2.41	-45.449	25.00	-25.00	38.83	34.04	4.79	8.101	
800.00	799.86	799.86	799.86	2.72	2.77	-45.908	25.00	-25.00	43.18	37.69	5.49	7.859	SF
900.00	899.66	899.66	899.66	3.07	3.13	-47.259	25.00	-25.00	49.46	43.26	6.20	7.977	
1,000.00	999.27	999.27	999.27	3.42	3.49	-49.786	25.00	-25.00	57.91	51.00	6.91	8.383	
1,100.00	1,098.63	1,098.63	1,098.63	3.78	3.84	-52.806	25.00	-25.00	68.68	61.06	7.62	9.017	
1,200.00	1,197.67	1,197.67	1,197.67	4.14	4.20	-55.866	25.00	-25.00	81.89	73.56	8.33	9.836	
1,300.00	1,296.32	1,297.75	1,297.74	4.51	4.54	-58.973	24.26	-24.61	96.90	87.88	9.02	10.743	
1,400.00	1,394.52	1,397.79	1,397.75	4.87	4.87	-62.220	21.99	-23.39	113.09	103.39	9.70	11.659	
1,500.00	1,492.20	1,497.72	1,497.59	5.25	5.20	-65.468	18.18	-21.36	130.63	120.25	10.38	12.582	
1,600.00	1,589.28	1,597.49	1,597.17	5.63	5.54	-68.630	12.84	-18.51	149.65	138.59	11.07	13.524	
1,691.85	1,677.88	1,688.94	1,688.35	5.98	5.85	-71.414	6.61	-15.18	168.55	156.85	11.70	14.411	
1,700.00	1,685.72	1,697.05	1,696.43	6.01	5.87	-71.654	5.99	-14.86	170.29	158.53	11.75	14.488	
1,800.00	1,781.86	1,796.69	1,795.61	6.40	6.21	-74.449	-2.39	-10.39	191.17	178.73	12.44	15.368	
1,900.00	1,878.00	1,895.13	1,893.46	6.79	6.55	-76.952	-11.89	-5.31	211.49	198.36	13.13	16.109	
2,000.00	1,974.14	1,992.67	1,990.40	7.18	6.89	-79.020	-21.42	-0.23	232.05	218.23	13.82	16.791	
2,100.00	2,070.27	2,090.20	2,087.33	7.58	7.23	-80.749	-30.96	4.86	252.86	238.35	14.51	17.421	
2,200.00	2,166.41	2,187.74	2,184.27	7.98	7.57	-82.213	-40.49	9.95	273.88	258.66	15.21	18.003	
2,300.00	2,262.55	2,285.27	2,281.20	8.38	7.92	-83.467	-50.03	15.04	295.04	279.13	15.91	18.540	
2,400.00	2,358.69	2,382.81	2,378.14	8.78	8.26	-84.553	-59.56	20.13	316.33	299.71	16.62	19.036	
2,500.00	2,454.83	2,480.35	2,475.07	9.18	8.61	-85.502	-69.09	25.21	337.71	320.39	17.32	19.495	
2,600.00	2,550.97	2,577.88	2,572.01	9.59	8.96	-86.337	-78.63	30.30	359.18	341.15	18.03	19.921	
2,700.00	2,647.11	2,675.42	2,668.94	9.99	9.31	-87.077	-88.16	35.39	380.72	361.98	18.74	20.316	
2,800.00	2,743.25	2,772.95	2,765.88	10.40	9.66	-87.739	-97.69	40.48	402.31	382.86	19.45	20.684	
2,900.00	2,839.39	2,870.49	2,862.81	10.81	10.01	-88.332	-107.23	45.56	423.96	403.79	20.16	21.026	
3,000.00	2,935.53	2,968.02	2,959.75	11.22	10.36	-88.868	-116.76	50.65	445.64	424.76	20.88	21.346	
3,100.00	3,031.67	3,065.56	3,056.68	11.62	10.71	-89.354	-126.30	55.74	467.36	445.77	21.59	21.645	
3,200.00	3,127.81	3,163.09	3,153.62	12.03	11.06	-89.797	-135.83	60.83	489.11	466.80	22.31	21.925	
3,300.00	3,223.95	3,260.63	3,250.55	12.44	11.42	-90.202	-145.36	65.92	510.89	487.86	23.03	22.188	
3,400.00	3,320.09	3,358.17	3,347.49	12.85	11.77	-90.574	-154.90	71.00	532.69	508.95	23.74	22.435	
3,500.00	3,416.23	3,455.70	3,444.42	13.26	12.13	-90.917	-164.43	76.09	554.51	530.05	24.46	22.668	
3,600.00	3,512.37	3,553.24	3,541.36	13.67	12.48	-91.233	-173.97	81.18	576.35	551.17	25.18	22.888	
3,700.00	3,608.51	3,650.77	3,638.29	14.08	12.83	-91.527	-183.50	86.27	598.21	572.31	25.90	23.095	
3,800.00	3,704.65	3,748.31	3,735.23	14.49	13.19	-91.800	-193.03	91.35	620.08	593.46	26.62	23.291	
3,900.00	3,800.79	3,845.84	3,832.16	14.91	13.55	-92.054	-202.57	96.44	641.97	614.62	27.34	23.477	
4,000.00	3,896.93	3,943.38	3,929.10	15.32	13.90	-92.291	-212.10	101.53	663.86	635.79	28.07	23.653	
4,100.00	3,993.07	4,040.91	4,026.03	15.73	14.26	-92.514	-221.64	106.62	685.77	656.98	28.79	23.820	
4,200.00	4,089.21	4,138.45	4,122.97	16.14	14.61	-92.722	-231.17	111.71	707.69	678.17	29.51	23.979	
4,300.00	4,185.35	4,235.98	4,219.90	16.55	14.97	-92.918	-240.70	116.79	729.61	699.38	30.24	24.131	
4,400.00	4,281.49	4,333.52	4,316.84	16.97	15.33	-93.102	-250.24	121.88	751.55	720.59	30.96	24.275	
4,500.00	4,377.63	4,431.06	4,413.77	17.38	15.68	-93.277	-259.77	126.97	773.49	741.80	31.68	24.412	
4,600.00	4,473.77	4,528.59	4,510.71	17.79	16.04	-93.441	-269.30	132.06	795.44	763.03	32.41	24.544	
4,700.00	4,569.91	4,626.13	4,607.64	18.21	16.40	-93.597	-278.84	137.14	817.39	784.26	33.13	24.669	
4,800.00	4,666.05	4,723.66	4,704.58	18.62	16.76	-93.744	-288.37	142.23	839.35	805.49	33.86	24.789	

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 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**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

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
4,900.00	4,762.19	4,821.20	4,801.51	19.03	17.11	-93.884	-297.91	147.32	861.32	826.73	34.59	24.904	
5,000.00	4,858.33	4,918.73	4,898.45	19.45	17.47	-94.017	-307.44	152.41	883.29	847.97	35.31	25.014	
5,100.00	4,954.47	5,016.27	4,995.38	19.86	17.83	-94.143	-316.97	157.50	905.26	869.22	36.04	25.120	
5,200.00	5,050.61	5,113.80	5,092.32	20.27	18.19	-94.264	-326.51	162.58	927.24	890.48	36.76	25.221	
5,300.00	5,146.75	5,211.34	5,189.25	20.69	18.54	-94.379	-336.04	167.67	949.22	911.73	37.49	25.319	
5,400.00	5,242.89	5,308.87	5,286.19	21.10	18.90	-94.488	-345.58	172.76	971.21	932.99	38.22	25.412	
5,500.00	5,339.03	5,406.41	5,383.12	21.52	19.26	-94.593	-355.11	177.85	993.20	954.25	38.95	25.502	
5,600.00	5,435.17	5,503.95	5,480.06	21.93	19.62	-94.694	-364.64	182.93	1,015.19	975.52	39.67	25.589	
5,700.00	5,531.31	5,601.48	5,576.99	22.34	19.98	-94.790	-374.18	188.02	1,037.19	996.79	40.40	25.672	
5,800.00	5,627.45	5,699.02	5,673.93	22.76	20.34	-94.882	-383.71	193.11	1,059.19	1,018.06	41.13	25.753	
5,900.00	5,723.59	5,796.55	5,770.86	23.17	20.69	-94.970	-393.24	198.20	1,081.19	1,039.33	41.86	25.830	
6,000.00	5,819.73	5,894.09	5,867.80	23.59	21.05	-95.055	-402.78	203.29	1,103.20	1,060.61	42.59	25.905	
6,100.00	5,915.87	5,991.62	5,964.73	24.00	21.41	-95.136	-412.31	208.37	1,125.20	1,081.89	43.31	25.977	
6,200.00	6,012.01	6,089.16	6,061.67	24.42	21.77	-95.215	-421.85	213.46	1,147.21	1,103.17	44.04	26.047	
6,300.00	6,108.15	6,186.69	6,158.60	24.83	22.13	-95.290	-431.38	218.55	1,169.22	1,124.45	44.77	26.115	
6,400.00	6,204.28	6,284.23	6,255.54	25.25	22.49	-95.363	-440.91	223.64	1,191.24	1,145.73	45.50	26.180	
6,500.00	6,300.42	6,381.77	6,352.47	25.66	22.85	-95.433	-450.45	228.72	1,213.25	1,167.02	46.23	26.243	
6,600.00	6,396.56	6,472.78	6,442.99	26.08	23.18	-95.446	-458.88	233.22	1,235.49	1,188.58	46.92	26.334	
6,700.00	6,492.70	6,562.59	6,532.43	26.49	23.51	-95.396	-465.96	237.00	1,258.32	1,210.73	47.59	26.441	
6,800.00	6,588.84	6,652.10	6,621.70	26.91	23.83	-95.288	-471.79	240.11	1,281.73	1,233.48	48.25	26.562	
6,900.00	6,684.98	6,741.28	6,710.73	27.32	24.16	-95.127	-476.37	242.56	1,305.75	1,256.83	48.91	26.695	
7,000.00	6,781.12	6,830.09	6,799.45	27.74	24.47	-94.917	-479.72	244.35	1,330.36	1,280.79	49.56	26.842	
7,100.00	6,877.26	6,918.49	6,887.82	28.15	24.79	-94.661	-481.85	245.48	1,355.57	1,305.37	50.21	27.001	
7,200.00	6,973.40	7,006.43	6,975.75	28.57	25.10	-94.362	-482.77	245.98	1,381.41	1,330.58	50.84	27.173	
7,300.00	7,069.54	7,100.22	7,069.54	28.98	25.41	-94.037	-482.82	246.00	1,407.73	1,356.24	51.49	27.340	
7,400.00	7,165.68	7,196.36	7,165.68	29.40	25.72	-93.722	-482.82	246.00	1,434.12	1,381.96	52.15	27.497	
7,500.00	7,261.82	7,292.50	7,261.82	29.81	26.04	-93.419	-482.82	246.00	1,460.55	1,407.72	52.82	27.651	
7,600.00	7,357.96	7,388.64	7,357.96	30.23	26.35	-93.126	-482.82	246.00	1,487.01	1,433.52	53.49	27.800	
7,700.00	7,454.10	7,484.78	7,454.10	30.64	26.67	-92.844	-482.82	246.00	1,513.52	1,459.36	54.16	27.946	
7,800.00	7,550.24	7,580.92	7,550.24	31.06	26.99	-92.571	-482.82	246.00	1,540.06	1,485.23	54.83	28.089	
7,900.00	7,646.38	7,677.06	7,646.38	31.47	27.31	-92.308	-482.82	246.00	1,566.63	1,511.13	55.50	28.228	
8,000.00	7,742.52	7,773.20	7,742.52	31.89	27.63	-92.053	-482.82	246.00	1,593.24	1,537.07	56.17	28.364	
8,100.00	7,838.66	7,869.34	7,838.66	32.30	27.94	-91.807	-482.82	246.00	1,619.87	1,563.03	56.84	28.497	
8,200.00	7,934.80	7,965.48	7,934.80	32.72	28.26	-91.568	-482.82	246.00	1,646.54	1,589.02	57.52	28.627	
8,245.37	7,978.42	8,009.09	7,978.42	32.91	28.41	-91.463	-482.82	246.00	1,658.64	1,600.82	57.82	28.685	
8,300.00	8,031.05	8,061.72	8,031.05	33.13	28.58	-91.341	-482.82	246.00	1,672.86	1,614.67	58.19	28.748	
8,400.00	8,127.90	8,158.58	8,127.90	33.54	28.91	-91.138	-482.82	246.00	1,697.01	1,638.15	58.87	28.827	
8,500.00	8,225.37	8,256.05	8,225.37	33.93	29.23	-90.962	-482.82	246.00	1,718.71	1,659.16	59.55	28.862	
8,600.00	8,323.40	8,354.07	8,323.40	34.32	29.56	-90.809	-482.82	246.00	1,737.94	1,677.70	60.23	28.854	
8,700.00	8,421.90	8,461.85	8,430.81	34.69	29.92	-90.452	-475.89	246.17	1,754.45	1,693.49	60.96	28.780	
8,800.00	8,520.83	8,565.15	8,530.87	35.06	30.24	-89.532	-450.78	246.78	1,768.11	1,706.51	61.60	28.702	
8,900.00	8,620.10	8,656.60	8,614.43	35.42	30.51	-88.262	-413.89	247.68	1,779.67	1,717.56	62.11	28.654	
9,000.00	8,719.65	8,734.49	8,680.23	35.76	30.71	-86.874	-372.32	248.70	1,790.11	1,727.64	62.48	28.652	
9,100.00	8,819.42	8,800.00	8,730.78	36.10	30.87	-85.513	-330.72	249.72	1,800.34	1,737.63	62.71	28.710	
9,200.00	8,919.33	8,850.00	8,765.97	36.43	30.98	-84.369	-295.24	250.58	1,811.08	1,748.30	62.78	28.849	
9,300.00	9,019.31	8,900.00	8,797.94	36.75	31.08	-83.149	-256.82	251.52	1,822.87	1,760.12	62.76	29.047	
9,310.15	9,029.46	8,900.00	8,797.94	36.78	31.08	-83.149	-256.82	251.52	1,824.15	1,761.43	62.72	29.084	
9,400.00	9,119.31	8,935.45	8,818.52	37.05	31.14	-82.241	-227.97	252.23	1,837.16	1,774.61	62.55	29.373	
9,500.00	9,219.31	8,966.66	8,835.13	37.35	31.20	-81.412	-201.56	252.87	1,855.69	1,793.46	62.22	29.822	
9,510.15	9,229.46	8,969.54	8,836.59	37.38	31.20	-81.335	-199.08	252.93	1,857.81	1,795.62	62.19	29.875	

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 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**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
9,550.00	9,269.28	8,981.03	8,842.28	37.51	31.22	-81.066	-189.11	253.18	1,866.53	1,804.50	62.03	30.092	
9,600.00	9,318.94	9,000.00	8,851.25	37.66	31.26	-80.722	-172.39	253.59	1,878.23	1,816.39	61.84	30.372	
9,650.00	9,367.93	9,000.00	8,851.25	37.80	31.26	-81.035	-172.39	253.59	1,890.67	1,829.13	61.54	30.724	
9,700.00	9,415.86	9,028.35	8,863.61	37.94	31.30	-80.686	-146.89	254.21	1,903.48	1,842.10	61.38	31.012	
9,750.00	9,462.37	9,050.00	8,872.19	38.08	31.34	-80.642	-127.02	254.70	1,916.73	1,855.55	61.18	31.331	
9,800.00	9,507.11	9,050.00	8,872.19	38.20	31.34	-81.342	-127.02	254.70	1,930.24	1,869.37	60.87	31.712	
9,850.00	9,549.73	9,080.29	8,882.91	38.31	31.38	-81.279	-98.71	255.39	1,943.61	1,882.90	60.71	32.016	
9,900.00	9,589.92	9,100.00	8,889.08	38.41	31.41	-81.629	-79.99	255.84	1,956.97	1,896.47	60.50	32.344	
9,950.00	9,627.36	9,116.64	8,893.79	38.50	31.43	-82.170	-64.04	256.23	1,970.07	1,909.77	60.30	32.672	
10,000.00	9,661.78	9,135.19	8,898.49	38.58	31.45	-82.746	-46.09	256.67	1,982.78	1,922.67	60.12	32.983	
10,050.00	9,692.91	9,150.00	8,901.82	38.64	31.47	-83.520	-31.67	257.03	1,994.99	1,935.05	59.94	33.282	
10,100.00	9,720.50	9,172.90	8,906.23	38.69	31.50	-84.123	-9.21	257.57	2,006.56	1,946.74	59.81	33.546	
10,150.00	9,744.37	9,200.00	8,910.29	38.73	31.53	-84.660	17.58	258.23	2,017.43	1,957.72	59.72	33.782	
10,200.00	9,764.31	9,200.00	8,910.29	38.75	31.53	-86.087	17.58	258.23	2,027.48	1,967.87	59.61	34.013	
10,250.00	9,780.18	9,230.51	8,913.34	38.77	31.56	-86.616	47.92	258.97	2,036.50	1,976.93	59.58	34.183	
10,300.00	9,791.86	9,250.00	8,914.44	38.77	31.58	-87.518	67.37	259.45	2,044.61	1,985.05	59.56	34.326	
10,350.00	9,799.26	9,273.61	8,914.89	38.77	31.60	-88.312	90.97	260.02	2,051.68	1,992.09	59.59	34.432	
10,400.00	9,802.33	9,300.00	8,914.84	38.77	31.62	-89.031	117.35	260.55	2,057.55	1,997.90	59.65	34.495	
10,407.15	9,802.41	9,300.00	8,914.84	38.77	31.62	-89.250	117.35	260.55	2,058.28	1,998.61	59.66	34.499	
10,500.00	9,802.90	9,361.32	8,914.73	38.76	31.68	-90.206	178.67	260.82	2,067.01	2,007.17	59.84	34.544	
10,600.00	9,803.42	9,454.63	8,914.57	38.75	31.80	-90.402	271.98	260.25	2,074.38	2,014.34	60.04	34.548	
10,700.00	9,803.95	9,554.53	8,914.40	38.74	31.94	-90.402	371.88	259.63	2,078.62	2,018.35	60.27	34.489	
10,774.74	9,804.34	9,629.26	8,914.27	38.72	32.07	-90.402	446.61	259.17	2,079.73	2,019.28	60.45	34.404	
10,800.00	9,804.47	9,654.52	8,914.22	38.72	32.11	-90.402	471.86	259.01	2,079.80	2,019.29	60.52	34.368	
10,900.00	9,804.99	9,754.51	8,914.05	38.71	32.30	-90.402	571.86	258.39	2,080.11	2,019.31	60.80	34.212	
11,000.00	9,805.52	9,854.51	8,913.87	38.70	32.52	-90.402	671.85	257.77	2,080.41	2,019.28	61.13	34.035	
11,100.00	9,806.04	9,954.51	8,913.70	38.70	32.75	-90.402	771.85	257.16	2,080.71	2,019.22	61.49	33.837	
11,200.00	9,806.56	10,054.51	8,913.52	38.69	33.01	-90.402	871.84	256.54	2,081.01	2,019.12	61.90	33.621	
11,300.00	9,807.09	10,154.50	8,913.35	38.70	33.29	-90.402	971.84	255.92	2,081.32	2,018.98	62.34	33.386	
11,400.00	9,807.61	10,254.50	8,913.18	38.70	33.58	-90.402	1,071.84	255.30	2,081.62	2,018.80	62.82	33.134	
11,500.00	9,808.13	10,354.50	8,913.00	38.72	33.90	-90.402	1,171.83	254.68	2,081.92	2,018.58	63.34	32.867	
11,600.00	9,808.66	10,454.50	8,912.83	38.75	34.24	-90.402	1,271.83	254.07	2,082.23	2,018.33	63.90	32.586	
11,700.00	9,809.18	10,554.49	8,912.65	38.82	34.59	-90.402	1,371.82	253.45	2,082.53	2,018.04	64.49	32.293	
11,800.00	9,809.71	10,654.49	8,912.48	38.97	34.97	-90.402	1,471.82	252.83	2,082.84	2,017.72	65.11	31.987	
11,900.00	9,810.23	10,754.49	8,912.30	39.22	35.36	-90.402	1,571.81	252.21	2,083.14	2,017.37	65.77	31.672	
12,000.00	9,810.75	10,854.49	8,912.13	39.54	35.76	-90.402	1,671.81	251.59	2,083.44	2,016.98	66.46	31.347	
12,100.00	9,811.28	10,954.48	8,911.95	39.90	36.19	-90.402	1,771.80	250.97	2,083.75	2,016.56	67.18	31.015	
12,200.00	9,811.80	11,054.48	8,911.78	40.28	36.63	-90.402	1,871.80	250.36	2,084.05	2,016.12	67.94	30.677	
12,300.00	9,812.32	11,154.48	8,911.60	40.68	37.08	-90.402	1,971.79	249.74	2,084.36	2,015.64	68.72	30.333	
12,400.00	9,812.85	11,254.48	8,911.43	41.10	37.55	-90.402	2,071.79	249.12	2,084.66	2,015.14	69.53	29.984	
12,500.00	9,813.37	11,354.48	8,911.26	41.53	38.03	-90.402	2,171.79	248.50	2,084.97	2,014.61	70.36	29.632	
12,600.00	9,813.89	11,454.47	8,911.08	41.98	38.53	-90.402	2,271.78	247.88	2,085.28	2,014.05	71.22	29.278	
12,700.00	9,814.42	11,554.47	8,910.91	42.44	39.04	-90.402	2,371.78	247.27	2,085.58	2,013.47	72.11	28.921	
12,800.00	9,814.94	11,654.47	8,910.73	42.91	39.56	-90.402	2,471.77	246.65	2,085.89	2,012.86	73.02	28.565	
12,900.00	9,815.47	11,754.47	8,910.56	43.40	40.09	-90.402	2,571.77	246.03	2,086.19	2,012.23	73.96	28.207	
13,000.00	9,815.99	11,854.46	8,910.38	43.90	40.64	-90.402	2,671.76	245.41	2,086.50	2,011.58	74.92	27.851	
13,100.00	9,816.51	11,954.46	8,910.21	44.41	41.20	-90.402	2,771.76	244.79	2,086.81	2,010.91	75.90	27.496	
13,200.00	9,817.04	12,054.46	8,910.03	44.92	41.76	-90.402	2,871.75	244.17	2,087.11	2,010.22	76.90	27.142	
13,300.00	9,817.56	12,154.46	8,909.86	45.46	42.34	-90.402	2,971.75	243.56	2,087.42	2,009.50	77.92	26.791	
13,400.00	9,818.08	12,254.45	8,909.68	46.00	42.93	-90.403	3,071.75	242.94	2,087.73	2,008.77	78.95	26.442	

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 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**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

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
13,500.00	9,818.61	12,354.45	8,909.51	46.55	43.52	-90.403	3,171.74	242.32	2,088.03	2,008.02	80.01	26.096	
13,600.00	9,819.13	12,454.45	8,909.34	47.11	44.13	-90.403	3,271.74	241.70	2,088.34	2,007.25	81.09	25.754	
13,700.00	9,819.65	12,554.45	8,909.16	47.67	44.74	-90.403	3,371.73	241.08	2,088.65	2,006.47	82.18	25.416	
13,800.00	9,820.18	12,654.44	8,908.99	48.25	45.36	-90.403	3,471.73	240.47	2,088.96	2,005.67	83.29	25.081	
13,900.00	9,820.70	12,754.44	8,908.81	48.84	45.99	-90.403	3,571.72	239.85	2,089.27	2,004.85	84.41	24.751	
14,000.00	9,821.23	12,854.44	8,908.64	49.43	46.63	-90.403	3,671.72	239.23	2,089.57	2,004.02	85.55	24.425	
14,100.00	9,821.75	12,954.44	8,908.46	50.03	47.28	-90.403	3,771.71	238.61	2,089.88	2,003.18	86.70	24.104	
14,200.00	9,822.27	13,054.43	8,908.29	50.64	47.93	-90.403	3,871.71	237.99	2,090.19	2,002.32	87.87	23.787	
14,300.00	9,822.80	13,154.43	8,908.11	51.26	48.59	-90.403	3,971.70	237.37	2,090.50	2,001.45	89.05	23.475	
14,400.00	9,823.32	13,254.43	8,907.94	51.88	49.25	-90.403	4,071.70	236.76	2,090.81	2,000.56	90.24	23.168	
14,500.00	9,823.84	13,354.43	8,907.76	52.51	49.93	-90.403	4,171.70	236.14	2,091.12	1,999.67	91.45	22.866	
14,600.00	9,824.37	13,454.42	8,907.59	53.15	50.60	-90.403	4,271.69	235.52	2,091.43	1,998.76	92.67	22.569	
14,700.00	9,824.89	13,554.42	8,907.42	53.80	51.29	-90.403	4,371.69	234.90	2,091.74	1,997.84	93.89	22.278	
14,800.00	9,825.41	13,654.42	8,907.24	54.45	51.97	-90.403	4,471.68	234.28	2,092.05	1,996.91	95.13	21.991	
14,900.00	9,825.94	13,754.42	8,907.07	55.10	52.67	-90.403	4,571.68	233.67	2,092.36	1,995.97	96.38	21.709	
15,000.00	9,826.46	13,854.41	8,906.89	55.76	53.37	-90.403	4,671.67	233.05	2,092.67	1,995.02	97.64	21.432	
15,100.00	9,826.98	13,954.41	8,906.72	56.43	54.07	-90.403	4,771.67	232.43	2,092.98	1,994.07	98.91	21.160	
15,200.00	9,827.51	14,054.41	8,906.54	57.10	54.78	-90.403	4,871.66	231.81	2,093.29	1,993.10	100.19	20.894	
15,300.00	9,828.03	14,154.41	8,906.37	57.78	55.49	-90.403	4,971.66	231.19	2,093.60	1,992.12	101.47	20.632	
15,400.00	9,828.56	14,254.40	8,906.19	58.46	56.21	-90.403	5,071.66	230.57	2,093.91	1,991.14	102.77	20.375	
15,500.00	9,829.08	14,354.40	8,906.02	59.15	56.93	-90.403	5,171.65	229.96	2,094.22	1,990.15	104.07	20.123	
15,600.00	9,829.60	14,454.40	8,905.84	59.84	57.66	-90.403	5,271.65	229.34	2,094.53	1,989.15	105.38	19.875	
15,700.00	9,830.13	14,554.40	8,905.67	60.54	58.39	-90.403	5,371.64	228.72	2,094.84	1,988.14	106.70	19.633	
15,800.00	9,830.65	14,654.39	8,905.50	61.24	59.12	-90.403	5,471.64	228.10	2,095.15	1,987.13	108.03	19.395	
15,900.00	9,831.17	14,754.39	8,905.32	61.94	59.86	-90.403	5,571.63	227.48	2,095.46	1,986.10	109.36	19.161	
16,000.00	9,831.70	14,854.39	8,905.15	62.65	60.60	-90.403	5,671.63	226.87	2,095.78	1,985.08	110.70	18.932	
16,100.00	9,832.22	14,954.39	8,904.97	63.36	61.34	-90.404	5,771.62	226.25	2,096.09	1,984.04	112.04	18.708	
16,200.00	9,832.74	15,054.38	8,904.80	64.08	62.09	-90.404	5,871.62	225.63	2,096.40	1,983.00	113.40	18.487	
16,300.00	9,833.27	15,154.38	8,904.62	64.80	62.84	-90.404	5,971.61	225.01	2,096.71	1,981.96	114.75	18.271	
16,400.00	9,833.79	15,254.38	8,904.45	65.52	63.59	-90.404	6,071.61	224.39	2,097.03	1,980.91	116.12	18.059	
16,500.00	9,834.32	15,354.38	8,904.27	66.25	64.35	-90.404	6,171.61	223.77	2,097.34	1,979.85	117.49	17.852	
16,600.00	9,834.84	15,454.38	8,904.10	66.98	65.11	-90.404	6,271.60	223.16	2,097.65	1,978.79	118.86	17.648	
16,700.00	9,835.36	15,554.37	8,903.92	67.71	65.87	-90.404	6,371.60	222.54	2,097.97	1,977.72	120.24	17.448	
16,800.00	9,835.89	15,654.37	8,903.75	68.45	66.63	-90.404	6,471.59	221.92	2,098.28	1,976.65	121.62	17.252	
16,900.00	9,836.41	15,754.37	8,903.58	69.19	67.40	-90.404	6,571.59	221.30	2,098.59	1,975.58	123.01	17.060	
17,000.00	9,836.93	15,854.37	8,903.40	69.93	68.17	-90.404	6,671.58	220.68	2,098.91	1,974.50	124.41	16.871	
17,100.00	9,837.46	15,954.36	8,903.23	70.67	68.94	-90.404	6,771.58	220.07	2,099.22	1,973.41	125.81	16.686	
17,200.00	9,837.98	16,054.36	8,903.05	71.42	69.71	-90.404	6,871.57	219.45	2,099.53	1,972.33	127.21	16.505	
17,300.00	9,838.50	16,154.36	8,902.88	72.17	70.49	-90.404	6,971.57	218.83	2,099.85	1,971.23	128.61	16.327	
17,400.00	9,839.03	16,254.36	8,902.70	72.93	71.26	-90.404	7,071.57	218.21	2,100.16	1,970.14	130.02	16.152	
17,500.00	9,839.55	16,354.35	8,902.53	73.68	72.04	-90.404	7,171.56	217.59	2,100.48	1,969.04	131.44	15.981	
17,600.00	9,840.07	16,454.35	8,902.35	74.44	72.82	-90.404	7,271.56	216.97	2,100.79	1,967.94	132.86	15.812	
17,700.00	9,840.60	16,554.35	8,902.18	75.20	73.61	-90.404	7,371.55	216.36	2,101.11	1,966.83	134.28	15.647	
17,800.00	9,841.12	16,654.35	8,902.00	75.96	74.39	-90.404	7,471.55	215.74	2,101.42	1,965.72	135.70	15.485	
17,900.00	9,841.65	16,754.34	8,901.83	76.73	75.18	-90.404	7,571.54	215.12	2,101.74	1,964.61	137.13	15.326	
18,000.00	9,842.17	16,854.34	8,901.66	77.49	75.97	-90.404	7,671.54	214.50	2,102.05	1,963.49	138.56	15.170	
18,100.00	9,842.69	16,954.34	8,901.48	78.26	76.76	-90.404	7,771.53	213.88	2,102.37	1,962.37	140.00	15.017	
18,200.00	9,843.22	17,054.34	8,901.31	79.03	77.55	-90.404	7,871.53	213.27	2,102.69	1,961.25	141.43	14.867	
18,300.00	9,843.74	17,154.33	8,901.13	79.81	78.35	-90.404	7,971.52	212.65	2,103.00	1,960.13	142.88	14.719	
18,400.00	9,844.26	17,254.33	8,900.96	80.58	79.14	-90.404	8,071.52	212.03	2,103.32	1,959.00	144.32	14.574	

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 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**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

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
18,500.00	9,844.79	17,354.33	8,900.78	81.36	79.94	-90.404	8,171.52	211.41	2,103.64	1,957.87	145.76	14.432	
18,600.00	9,845.31	17,454.33	8,900.61	82.13	80.74	-90.404	8,271.51	210.79	2,103.95	1,956.74	147.21	14.292	
18,700.00	9,845.83	17,554.32	8,900.43	82.91	81.54	-90.404	8,371.51	210.17	2,104.27	1,955.61	148.66	14.155	
18,800.00	9,846.36	17,654.32	8,900.26	83.70	82.34	-90.405	8,471.50	209.56	2,104.59	1,954.47	150.12	14.020	
18,900.00	9,846.88	17,754.32	8,900.08	84.48	83.14	-90.405	8,571.50	208.94	2,104.90	1,953.33	151.57	13.887	
19,000.00	9,847.41	17,854.32	8,899.91	85.27	83.95	-90.405	8,671.49	208.32	2,105.22	1,952.19	153.03	13.757	
19,100.00	9,847.93	17,954.31	8,899.74	86.05	84.75	-90.405	8,771.49	207.70	2,105.54	1,951.05	154.49	13.629	
19,200.00	9,848.45	18,054.31	8,899.56	86.84	85.56	-90.405	8,871.48	207.08	2,105.86	1,949.90	155.95	13.503	
19,300.00	9,848.98	18,154.31	8,899.39	87.63	86.36	-90.405	8,971.48	206.47	2,106.17	1,948.76	157.42	13.380	
19,400.00	9,849.50	18,254.31	8,899.21	88.42	87.17	-90.405	9,071.48	205.85	2,106.49	1,947.61	158.88	13.258	
19,500.00	9,850.02	18,354.30	8,899.04	89.21	87.98	-90.405	9,171.47	205.23	2,106.81	1,946.46	160.35	13.139	
19,600.00	9,850.55	18,454.30	8,898.86	90.01	88.79	-90.405	9,271.47	204.61	2,107.13	1,945.31	161.82	13.021	
19,700.00	9,851.07	18,554.30	8,898.69	90.80	89.61	-90.405	9,371.46	203.99	2,107.45	1,944.15	163.29	12.906	
19,800.00	9,851.59	18,654.30	8,898.51	91.60	90.42	-90.405	9,471.46	203.37	2,107.77	1,943.00	164.77	12.792	
19,900.00	9,852.12	18,754.29	8,898.34	92.39	91.23	-90.405	9,571.45	202.76	2,108.09	1,941.84	166.24	12.681	
20,000.00	9,852.64	18,854.29	8,898.16	93.19	92.05	-90.405	9,671.45	202.14	2,108.41	1,940.69	167.72	12.571	
20,100.00	9,853.16	18,954.29	8,897.99	93.99	92.86	-90.405	9,771.44	201.52	2,108.73	1,939.53	169.20	12.463	
20,200.00	9,853.69	19,054.29	8,897.82	94.79	93.68	-90.405	9,871.44	200.90	2,109.05	1,938.37	170.68	12.357	
20,300.00	9,854.21	19,154.29	8,897.64	95.60	94.50	-90.405	9,971.43	200.28	2,109.37	1,937.20	172.16	12.252	
20,355.05	9,854.50	19,206.42	8,897.55	96.04	94.92	-90.494	10,023.57	199.96	2,109.54	1,936.59	172.95	12.197	

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**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
0.00	0.00	0.00	0.00	0.00	0.00	0.000	25.00	0.00	25.00				
100.00	100.00	100.00	100.00	0.26	0.26	0.000	25.00	0.00	25.00	24.47	0.53	47.442	
200.00	200.00	200.00	200.00	0.62	0.62	0.000	25.00	0.00	25.00	23.76	1.24	20.098	
300.00	300.00	300.00	300.00	0.98	0.98	0.000	25.00	0.00	25.00	23.04	1.96	12.750	
400.00	400.00	400.00	400.00	1.34	1.34	0.000	25.00	0.00	25.00	22.32	2.68	9.336	
500.00	500.00	500.00	500.00	1.70	1.70	0.000	25.00	0.00	25.00	21.61	3.39	7.364	CC
600.00	599.99	599.99	599.99	2.04	2.06	-1.498	25.00	0.00	25.57	21.47	4.10	6.240	ES
700.00	699.96	699.96	699.96	2.38	2.41	-5.605	25.00	0.00	27.37	22.58	4.79	5.711	
800.00	799.86	799.86	799.86	2.72	2.77	-11.320	25.00	0.00	30.64	25.15	5.50	5.577	SF
900.00	899.66	899.66	899.66	3.07	3.13	-18.640	25.00	0.00	35.42	29.22	6.20	5.713	
1,000.00	999.27	999.27	999.27	3.42	3.49	-27.208	25.00	0.00	42.04	35.13	6.91	6.085	
1,100.00	1,098.63	1,098.63	1,098.63	3.78	3.84	-35.588	25.00	0.00	51.05	43.44	7.62	6.702	
1,200.00	1,197.67	1,197.67	1,197.67	4.14	4.20	-42.955	25.00	0.00	62.78	54.46	8.33	7.541	
1,300.00	1,296.32	1,296.32	1,296.32	4.51	4.55	-49.061	25.00	0.00	77.34	68.31	9.03	8.563	
1,400.00	1,394.52	1,394.52	1,394.52	4.87	4.90	-53.986	25.00	0.00	94.73	84.99	9.74	9.730	
1,500.00	1,492.20	1,492.20	1,492.20	5.25	5.25	-57.929	25.00	0.00	114.91	104.47	10.44	11.010	
1,600.00	1,589.28	1,589.28	1,589.28	5.63	5.60	-61.097	25.00	0.00	137.83	126.69	11.13	12.378	
1,691.85	1,677.88	1,677.88	1,677.88	5.98	5.92	-63.474	25.00	0.00	161.24	149.47	11.77	13.697	
1,700.00	1,685.72	1,685.72	1,685.72	6.01	5.95	-63.663	25.00	0.00	163.42	151.59	11.83	13.813	
1,800.00	1,781.86	1,781.86	1,781.86	6.40	6.29	-65.630	25.00	0.00	190.26	177.74	12.52	15.200	
1,900.00	1,878.00	1,882.67	1,882.67	6.79	6.64	-67.093	24.71	0.85	216.43	203.21	13.22	16.372	
2,000.00	1,974.14	1,985.87	1,985.80	7.18	6.99	-68.204	23.55	4.28	240.16	226.24	13.92	17.254	
2,100.00	2,070.27	2,090.39	2,090.11	7.58	7.35	-69.092	21.47	10.45	261.33	246.71	14.62	17.875	
2,200.00	2,166.41	2,196.08	2,195.37	7.98	7.71	-69.834	18.44	19.44	279.85	264.53	15.32	18.266	
2,300.00	2,262.55	2,302.81	2,301.36	8.38	8.08	-70.477	14.43	31.31	295.67	279.65	16.02	18.456	
2,400.00	2,358.69	2,410.42	2,407.83	8.78	8.45	-71.056	9.43	46.11	308.76	292.04	16.72	18.469	
2,500.00	2,454.83	2,518.75	2,514.52	9.18	8.83	-71.594	3.43	63.88	319.07	301.66	17.41	18.328	
2,600.00	2,550.97	2,627.64	2,621.17	9.59	9.22	-72.111	-3.57	84.62	326.57	308.48	18.09	18.050	
2,700.00	2,647.11	2,736.90	2,727.53	9.99	9.61	-72.622	-11.57	108.32	331.25	312.48	18.77	17.650	
2,800.00	2,743.25	2,846.36	2,833.32	10.40	10.00	-73.144	-20.56	134.94	333.09	313.66	19.43	17.142	
2,900.00	2,839.39	2,951.25	2,933.99	10.81	10.39	-73.677	-29.98	162.86	332.42	312.31	20.11	16.529	
3,000.00	2,935.53	3,051.20	3,029.80	11.22	10.76	-74.207	-39.08	189.83	331.40	310.58	20.82	15.917	
3,100.00	3,031.67	3,151.15	3,125.61	11.62	11.14	-74.741	-48.19	216.80	330.41	308.88	21.53	15.345	
3,200.00	3,127.81	3,251.10	3,221.42	12.03	11.51	-75.278	-57.29	243.76	329.44	307.19	22.25	14.809	
3,300.00	3,223.95	3,351.05	3,317.24	12.44	11.89	-75.819	-66.40	270.73	328.50	305.54	22.96	14.306	
3,400.00	3,320.09	3,451.01	3,413.05	12.85	12.28	-76.362	-75.50	297.70	327.59	303.91	23.68	13.834	
3,500.00	3,416.23	3,550.96	3,508.86	13.26	12.66	-76.908	-84.61	324.67	326.70	302.30	24.40	13.389	
3,600.00	3,512.37	3,650.91	3,604.68	13.67	13.05	-77.457	-93.71	351.64	325.84	300.72	25.12	12.970	
3,700.00	3,608.51	3,750.86	3,700.49	14.08	13.44	-78.008	-102.81	378.60	325.01	299.16	25.85	12.575	
3,800.00	3,704.65	3,850.81	3,796.30	14.49	13.83	-78.563	-111.92	405.57	324.20	297.63	26.57	12.201	
3,900.00	3,800.79	3,950.76	3,892.11	14.91	14.23	-79.120	-121.02	432.54	323.43	296.13	27.30	11.848	
4,000.00	3,896.93	4,050.71	3,987.93	15.32	14.62	-79.679	-130.13	459.51	322.68	294.65	28.03	11.513	
4,100.00	3,993.07	4,150.66	4,083.74	15.73	15.02	-80.241	-139.23	486.47	321.96	293.20	28.76	11.195	
4,200.00	4,089.21	4,250.62	4,179.55	16.14	15.42	-80.805	-148.33	513.44	321.27	291.78	29.49	10.893	
4,300.00	4,185.35	4,350.57	4,275.37	16.55	15.82	-81.372	-157.44	540.41	320.61	290.38	30.23	10.607	
4,400.00	4,281.49	4,450.52	4,371.18	16.97	16.22	-81.940	-166.54	567.38	319.98	289.01	30.96	10.334	
4,500.00	4,377.63	4,550.47	4,466.99	17.38	16.62	-82.511	-175.65	594.35	319.37	287.67	31.70	10.074	
4,600.00	4,473.77	4,650.42	4,562.81	17.79	17.02	-83.084	-184.75	621.31	318.80	286.36	32.44	9.827	
4,700.00	4,569.91	4,750.37	4,658.62	18.21	17.42	-83.658	-193.86	648.28	318.26	285.07	33.19	9.590	
4,800.00	4,666.05	4,850.32	4,754.43	18.62	17.83	-84.234	-202.96	675.25	317.74	283.81	33.93	9.365	

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 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**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

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
4,900.00	4,762.19	4,950.28	4,850.24	19.03	18.23	-84.812	-212.06	702.22	317.26	282.58	34.68	9.149	
5,000.00	4,858.33	5,050.23	4,946.06	19.45	18.64	-85.391	-221.17	729.19	316.80	281.38	35.42	8.943	
5,100.00	4,954.47	5,150.18	5,041.87	19.86	19.04	-85.971	-230.27	756.15	316.38	280.20	36.17	8.746	
5,200.00	5,050.61	5,250.13	5,137.68	20.27	19.45	-86.553	-239.38	783.12	315.98	279.06	36.92	8.557	
5,300.00	5,146.75	5,350.08	5,233.50	20.69	19.86	-87.136	-248.48	810.09	315.62	277.94	37.68	8.377	
5,400.00	5,242.89	5,450.03	5,329.31	21.10	20.27	-87.720	-257.58	837.06	315.29	276.85	38.43	8.203	
5,500.00	5,339.03	5,549.98	5,425.12	21.52	20.68	-88.305	-266.69	864.03	314.98	275.79	39.19	8.037	
5,600.00	5,435.17	5,649.93	5,520.93	21.93	21.09	-88.891	-275.79	890.99	314.71	274.76	39.95	7.877	
5,700.00	5,531.31	5,749.89	5,616.75	22.34	21.49	-89.478	-284.90	917.96	314.47	273.75	40.72	7.724	
5,800.00	5,627.45	5,849.84	5,712.56	22.76	21.91	-90.065	-294.00	944.93	314.26	272.78	41.48	7.576	
5,900.00	5,723.59	5,949.79	5,808.37	23.17	22.32	-90.652	-303.11	971.90	314.08	271.83	42.25	7.434	
6,000.00	5,819.73	6,049.74	5,904.19	23.59	22.73	-91.240	-312.21	998.87	313.93	270.91	43.01	7.298	
6,100.00	5,915.87	6,149.69	6,000.00	24.00	23.14	-91.828	-321.31	1,025.83	313.81	270.02	43.79	7.167	
6,200.00	6,012.01	6,249.64	6,095.81	24.42	23.55	-92.416	-330.42	1,052.80	313.72	269.16	44.56	7.041	
6,300.00	6,108.15	6,349.59	6,191.62	24.83	23.96	-93.003	-339.52	1,079.77	313.67	268.33	45.33	6.919	
6,400.00	6,204.28	6,449.55	6,287.44	25.25	24.37	-93.591	-348.63	1,106.74	313.64	267.53	46.11	6.802	
6,431.29	6,234.37	6,480.82	6,317.42	25.38	24.50	-93.775	-351.47	1,115.18	313.64	267.28	46.36	6.766	
6,500.00	6,300.42	6,549.50	6,383.25	25.66	24.79	-94.179	-357.73	1,133.70	313.65	266.75	46.89	6.689	
6,600.00	6,396.56	6,649.45	6,479.06	26.08	25.20	-94.766	-366.83	1,160.67	313.68	266.01	47.67	6.580	
6,700.00	6,492.70	6,749.40	6,574.88	26.49	25.61	-95.352	-375.94	1,187.64	313.75	265.29	48.46	6.475	
6,800.00	6,588.84	6,849.35	6,670.69	26.91	26.03	-95.938	-385.04	1,214.61	313.85	264.60	49.25	6.373	
6,900.00	6,684.98	6,949.30	6,766.50	27.32	26.44	-96.523	-394.15	1,241.58	313.98	263.95	50.04	6.275	
7,000.00	6,781.12	7,049.25	6,862.32	27.74	26.85	-97.107	-403.25	1,268.54	314.14	263.31	50.83	6.181	
7,100.00	6,877.26	7,149.20	6,958.13	28.15	27.27	-97.690	-412.36	1,295.51	314.33	262.71	51.62	6.089	
7,200.00	6,973.40	7,249.16	7,053.94	28.57	27.68	-98.271	-421.46	1,322.48	314.56	262.14	52.42	6.001	
7,300.00	7,069.54	7,345.12	7,146.04	28.98	28.08	-98.722	-430.08	1,348.03	315.18	261.95	53.22	5.922	
7,400.00	7,165.68	7,438.18	7,235.91	29.40	28.46	-98.925	-437.81	1,370.90	317.80	263.79	54.01	5.884	
7,500.00	7,261.82	7,531.12	7,326.22	29.81	28.83	-98.934	-444.82	1,391.67	322.61	267.85	54.76	5.892	
7,600.00	7,357.96	7,623.82	7,416.82	30.23	29.19	-98.759	-451.11	1,410.31	329.57	274.11	55.46	5.942	
7,700.00	7,454.10	7,716.19	7,507.52	30.64	29.54	-98.414	-456.68	1,426.80	338.70	282.56	56.13	6.034	
7,800.00	7,550.24	7,808.11	7,598.19	31.06	29.89	-97.922	-461.52	1,441.14	349.97	293.21	56.76	6.166	
7,900.00	7,646.38	7,900.00	7,689.16	31.47	30.23	-97.310	-465.66	1,453.41	363.41	306.05	57.36	6.336	
8,000.00	7,742.52	7,990.21	7,778.74	31.89	30.55	-96.590	-469.04	1,463.43	379.01	321.10	57.91	6.545	
8,100.00	7,838.66	8,080.20	7,868.33	32.30	30.87	-95.802	-471.75	1,471.43	396.77	338.34	58.43	6.791	
8,200.00	7,934.80	8,169.35	7,957.26	32.72	31.18	-94.964	-473.75	1,477.39	416.70	357.79	58.91	7.073	
8,245.37	7,978.42	8,209.50	7,997.36	32.91	31.32	-94.573	-474.44	1,479.42	426.45	367.33	59.12	7.213	
8,300.00	8,031.05	8,257.68	8,045.49	33.13	31.48	-94.111	-475.09	1,481.34	438.43	379.06	59.36	7.385	
8,400.00	8,127.90	8,345.55	8,133.33	33.54	31.77	-93.323	-475.77	1,483.36	460.13	400.34	59.79	7.696	
8,500.00	8,225.37	8,437.59	8,225.37	33.93	32.06	-92.607	-475.87	1,483.65	481.32	421.03	60.29	7.983	
8,600.00	8,323.40	8,535.62	8,323.40	34.32	32.37	-92.014	-475.87	1,483.65	500.42	439.50	60.92	8.214	
8,700.00	8,421.90	8,634.81	8,422.56	34.69	32.69	-91.373	-474.43	1,483.64	517.05	455.48	61.57	8.398	
8,800.00	8,520.83	8,732.13	8,518.58	35.06	32.98	-89.365	-459.34	1,483.55	531.29	469.27	62.02	8.566	
8,900.00	8,620.10	8,821.54	8,603.40	35.42	33.23	-86.154	-431.34	1,483.38	544.64	482.50	62.14	8.765	
9,000.00	8,719.65	8,900.00	8,673.46	35.76	33.42	-82.398	-396.16	1,483.16	559.37	497.52	61.84	9.045	
9,100.00	8,819.42	8,968.29	8,730.04	36.10	33.57	-78.542	-357.99	1,482.93	577.76	516.68	61.08	9.459	
9,200.00	8,919.33	9,025.86	8,773.93	36.43	33.67	-74.956	-320.78	1,482.70	601.59	541.80	59.79	10.061	
9,300.00	9,019.31	9,074.49	8,807.95	36.75	33.75	-71.738	-286.04	1,482.48	631.89	573.87	58.02	10.891	
9,310.15	9,029.46	9,078.99	8,810.94	36.78	33.75	-71.433	-282.69	1,482.46	635.35	577.53	57.82	10.989	
9,400.00	9,119.31	9,115.55	8,834.29	37.05	33.80	-68.918	-254.56	1,482.29	669.95	614.06	55.89	11.987	
9,500.00	9,219.31	9,150.00	8,854.60	37.35	33.84	-66.512	-226.74	1,482.12	716.73	663.12	53.61	13.369	

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 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**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
9,510.15	9,229.46	9,150.00	8,854.60	37.38	33.84	-66.512	-226.74	1,482.12	721.95	668.67	53.28	13.551	
9,550.00	9,269.28	9,166.16	8,863.54	37.51	33.85	-65.501	-213.29	1,482.03	742.76	690.27	52.49	14.151	
9,600.00	9,318.94	9,182.70	8,872.30	37.66	33.87	-64.829	-199.25	1,481.95	769.32	717.92	51.39	14.969	
9,650.00	9,367.93	9,200.00	8,881.03	37.80	33.88	-64.463	-184.31	1,481.86	796.02	745.66	50.35	15.809	
9,700.00	9,415.86	9,217.38	8,889.33	37.94	33.89	-64.437	-169.05	1,481.76	822.51	773.17	49.34	16.671	
9,750.00	9,462.37	9,235.36	8,897.43	38.08	33.90	-64.701	-153.00	1,481.66	848.50	800.12	48.38	17.538	
9,800.00	9,507.11	9,250.00	8,903.65	38.20	33.91	-65.537	-139.75	1,481.58	873.75	826.37	47.38	18.441	
9,850.00	9,549.73	9,272.33	8,912.48	38.31	33.92	-66.106	-119.24	1,481.46	897.99	851.36	46.63	19.258	
9,900.00	9,589.92	9,300.00	8,922.31	38.41	33.93	-66.544	-93.37	1,481.30	921.17	875.12	46.04	20.007	
9,950.00	9,627.36	9,300.00	8,922.31	38.50	33.93	-69.452	-93.37	1,481.30	942.94	898.01	44.93	20.985	
10,000.00	9,661.78	9,329.65	8,931.44	38.58	33.94	-70.263	-65.16	1,481.12	963.06	918.56	44.50	21.641	
10,050.00	9,692.91	9,350.00	8,936.85	38.64	33.94	-72.068	-45.55	1,481.00	981.70	937.73	43.97	22.328	
10,100.00	9,720.50	9,368.74	8,941.22	38.69	33.94	-74.236	-27.33	1,480.89	998.61	955.11	43.50	22.958	
10,150.00	9,744.37	9,400.00	8,947.17	38.73	33.94	-75.510	3.35	1,480.70	1,013.87	970.61	43.26	23.438	
10,200.00	9,764.31	9,400.00	8,947.17	38.75	33.94	-79.698	3.35	1,480.70	1,027.01	984.18	42.83	23.980	
10,250.00	9,780.18	9,428.17	8,951.09	38.77	33.94	-81.524	31.24	1,480.53	1,038.19	995.44	42.75	24.287	
10,300.00	9,791.86	9,450.00	8,953.19	38.77	33.94	-84.000	52.97	1,480.39	1,047.46	1,004.73	42.72	24.517	
10,350.00	9,799.26	9,468.09	8,954.30	38.77	33.94	-86.860	71.03	1,480.28	1,054.68	1,011.87	42.81	24.635	
10,400.00	9,802.33	9,495.15	8,954.89	38.77	33.93	-88.910	98.08	1,480.12	1,059.91	1,016.91	43.00	24.649	
10,407.15	9,802.41	9,495.15	8,954.89	38.77	33.93	-89.549	98.08	1,480.12	1,060.44	1,017.39	43.05	24.634	
10,500.00	9,802.90	9,576.99	8,954.74	38.76	33.92	-90.484	179.92	1,479.61	1,067.18	1,023.80	43.38	24.601	
10,600.00	9,803.42	9,676.68	8,954.57	38.75	33.90	-90.482	279.60	1,479.00	1,072.50	1,028.86	43.64	24.575	
10,700.00	9,803.95	9,776.57	8,954.40	38.74	33.89	-90.482	379.50	1,478.38	1,075.72	1,031.87	43.86	24.527	
10,774.74	9,804.34	9,851.31	8,954.27	38.72	33.88	-90.481	454.23	1,477.92	1,076.73	1,032.75	43.99	24.477	
10,800.00	9,804.47	9,876.56	8,954.22	38.72	33.88	-90.482	479.48	1,477.77	1,076.87	1,032.84	44.03	24.458	
10,900.00	9,804.99	9,976.56	8,954.05	38.71	33.88	-90.482	579.48	1,477.15	1,077.43	1,033.21	44.21	24.368	
11,000.00	9,805.52	10,076.56	8,953.87	38.70	33.88	-90.482	679.47	1,476.54	1,077.98	1,033.54	44.44	24.259	
11,100.00	9,806.04	10,176.55	8,953.70	38.70	33.89	-90.482	779.47	1,475.92	1,078.53	1,033.84	44.69	24.132	
11,200.00	9,806.56	10,276.55	8,953.52	38.69	33.92	-90.482	879.46	1,475.30	1,079.08	1,034.10	44.98	23.988	
11,300.00	9,807.09	10,376.55	8,953.35	38.70	33.98	-90.482	979.46	1,474.69	1,079.64	1,034.33	45.31	23.828	
11,400.00	9,807.61	10,476.55	8,953.17	38.70	34.11	-90.482	1,079.46	1,474.07	1,080.19	1,034.52	45.67	23.653	
11,500.00	9,808.13	10,576.54	8,953.00	38.72	34.32	-90.482	1,179.45	1,473.46	1,080.74	1,034.68	46.06	23.464	
11,600.00	9,808.66	10,676.54	8,952.83	38.75	34.60	-90.482	1,279.45	1,472.84	1,081.30	1,034.81	46.48	23.262	
11,700.00	9,809.18	10,776.54	8,952.65	38.82	34.92	-90.482	1,379.44	1,472.22	1,081.85	1,034.91	46.94	23.049	
11,800.00	9,809.71	10,876.54	8,952.48	38.97	35.27	-90.483	1,479.44	1,471.61	1,082.40	1,034.98	47.42	22.825	
11,900.00	9,810.23	10,976.54	8,952.30	39.22	35.64	-90.483	1,579.43	1,470.99	1,082.96	1,035.02	47.93	22.593	
12,000.00	9,810.75	11,076.53	8,952.13	39.54	36.03	-90.483	1,679.43	1,470.38	1,083.51	1,035.04	48.47	22.353	
12,100.00	9,811.28	11,176.53	8,951.95	39.90	36.43	-90.483	1,779.42	1,469.76	1,084.07	1,035.02	49.04	22.106	
12,200.00	9,811.80	11,276.53	8,951.78	40.28	36.86	-90.483	1,879.42	1,469.15	1,084.62	1,034.99	49.63	21.853	
12,300.00	9,812.32	11,376.53	8,951.60	40.68	37.30	-90.483	1,979.41	1,468.53	1,085.17	1,034.92	50.25	21.595	
12,400.00	9,812.85	11,476.52	8,951.43	41.10	37.75	-90.483	2,079.41	1,467.91	1,085.73	1,034.84	50.89	21.334	
12,500.00	9,813.37	11,576.52	8,951.26	41.53	38.22	-90.483	2,179.41	1,467.30	1,086.28	1,034.73	51.56	21.070	
12,600.00	9,813.89	11,676.52	8,951.08	41.98	38.70	-90.483	2,279.40	1,466.68	1,086.84	1,034.59	52.24	20.803	
12,700.00	9,814.42	11,776.52	8,950.91	42.44	39.20	-90.484	2,379.40	1,466.07	1,087.39	1,034.44	52.95	20.536	
12,800.00	9,814.94	11,876.51	8,950.73	42.91	39.70	-90.484	2,479.39	1,465.45	1,087.95	1,034.27	53.68	20.267	
12,900.00	9,815.47	11,976.51	8,950.56	43.40	40.22	-90.484	2,579.39	1,464.83	1,088.50	1,034.08	54.43	19.999	
13,000.00	9,815.99	12,076.51	8,950.38	43.90	40.76	-90.484	2,679.38	1,464.22	1,089.06	1,033.87	55.19	19.732	
13,100.00	9,816.51	12,176.51	8,950.21	44.41	41.30	-90.484	2,779.38	1,463.60	1,089.62	1,033.64	55.98	19.465	
13,200.00	9,817.04	12,276.50	8,950.03	44.92	41.85	-90.484	2,879.37	1,462.99	1,090.17	1,033.39	56.78	19.200	
13,300.00	9,817.56	12,376.50	8,949.86	45.46	42.42	-90.484	2,979.37	1,462.37	1,090.73	1,033.13	57.60	18.937	

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 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**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

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
13,400.00	9,818.08	12,476.50	8,949.69	46.00	42.99	-90.484	3,079.37	1,461.75	1,091.28	1,032.86	58.43	18.677	
13,500.00	9,818.61	12,576.50	8,949.51	46.55	43.58	-90.484	3,179.36	1,461.14	1,091.84	1,032.56	59.28	18.419	
13,600.00	9,819.13	12,676.49	8,949.34	47.11	44.17	-90.484	3,279.36	1,460.52	1,092.40	1,032.26	60.14	18.165	
13,700.00	9,819.65	12,776.49	8,949.16	47.67	44.77	-90.485	3,379.35	1,459.91	1,092.95	1,031.94	61.01	17.913	
13,800.00	9,820.18	12,876.49	8,948.99	48.25	45.39	-90.485	3,479.35	1,459.29	1,093.51	1,031.61	61.90	17.665	
13,900.00	9,820.70	12,976.49	8,948.81	48.84	46.00	-90.485	3,579.34	1,458.68	1,094.07	1,031.27	62.80	17.421	
14,000.00	9,821.23	13,076.48	8,948.64	49.43	46.63	-90.485	3,679.34	1,458.06	1,094.63	1,030.91	63.72	17.180	
14,100.00	9,821.75	13,176.48	8,948.46	50.03	47.27	-90.485	3,779.33	1,457.44	1,095.18	1,030.54	64.64	16.943	
14,200.00	9,822.27	13,276.48	8,948.29	50.64	47.91	-90.485	3,879.33	1,456.83	1,095.74	1,030.17	65.57	16.710	
14,300.00	9,822.80	13,376.48	8,948.11	51.26	48.56	-90.485	3,979.33	1,456.21	1,096.30	1,029.78	66.52	16.481	
14,400.00	9,823.32	13,476.47	8,947.94	51.88	49.21	-90.485	4,079.32	1,455.60	1,096.86	1,029.38	67.47	16.256	
14,500.00	9,823.84	13,576.47	8,947.77	52.51	49.87	-90.485	4,179.32	1,454.98	1,097.41	1,028.98	68.44	16.035	
14,600.00	9,824.37	13,676.47	8,947.59	53.15	50.54	-90.486	4,279.31	1,454.36	1,097.97	1,028.56	69.41	15.819	
14,700.00	9,824.89	13,776.47	8,947.42	53.80	51.22	-90.486	4,379.31	1,453.75	1,098.53	1,028.14	70.39	15.606	
14,800.00	9,825.41	13,876.46	8,947.24	54.45	51.90	-90.486	4,479.30	1,453.13	1,099.09	1,027.71	71.38	15.398	
14,900.00	9,825.94	13,976.46	8,947.07	55.10	52.58	-90.486	4,579.30	1,452.52	1,099.65	1,027.27	72.38	15.193	
15,000.00	9,826.46	14,076.46	8,946.89	55.76	53.27	-90.486	4,679.29	1,451.90	1,100.21	1,026.83	73.38	14.993	
15,100.00	9,826.98	14,176.46	8,946.72	56.43	53.97	-90.486	4,779.29	1,451.28	1,100.77	1,026.37	74.39	14.796	
15,200.00	9,827.51	14,276.45	8,946.54	57.10	54.67	-90.486	4,879.28	1,450.67	1,101.33	1,025.91	75.41	14.604	
15,300.00	9,828.03	14,376.45	8,946.37	57.78	55.37	-90.486	4,979.28	1,450.05	1,101.89	1,025.45	76.44	14.415	
15,400.00	9,828.56	14,476.45	8,946.20	58.46	56.08	-90.486	5,079.28	1,449.44	1,102.44	1,024.98	77.47	14.231	
15,500.00	9,829.08	14,576.45	8,946.02	59.15	56.80	-90.486	5,179.27	1,448.82	1,103.00	1,024.50	78.51	14.050	
15,600.00	9,829.60	14,676.45	8,945.85	59.84	57.51	-90.487	5,279.27	1,448.21	1,103.56	1,024.02	79.55	13.873	
15,700.00	9,830.13	14,776.44	8,945.67	60.54	58.24	-90.487	5,379.26	1,447.59	1,104.12	1,023.53	80.60	13.699	
15,800.00	9,830.65	14,876.44	8,945.50	61.24	58.96	-90.487	5,479.26	1,446.97	1,104.68	1,023.03	81.65	13.529	
15,900.00	9,831.17	14,976.44	8,945.32	61.94	59.69	-90.487	5,579.25	1,446.36	1,105.25	1,022.54	82.71	13.363	
16,000.00	9,831.70	15,076.44	8,945.15	62.65	60.42	-90.487	5,679.25	1,445.74	1,105.81	1,022.03	83.77	13.200	
16,100.00	9,832.22	15,176.43	8,944.97	63.36	61.16	-90.487	5,779.24	1,445.13	1,106.37	1,021.53	84.84	13.041	
16,200.00	9,832.74	15,276.43	8,944.80	64.08	61.90	-90.487	5,879.24	1,444.51	1,106.93	1,021.01	85.91	12.884	
16,300.00	9,833.27	15,376.43	8,944.63	64.80	62.65	-90.487	5,979.24	1,443.89	1,107.49	1,020.50	86.99	12.731	
16,400.00	9,833.79	15,476.43	8,944.45	65.52	63.39	-90.487	6,079.23	1,443.28	1,108.05	1,019.98	88.07	12.582	
16,500.00	9,834.32	15,576.42	8,944.28	66.25	64.14	-90.488	6,179.23	1,442.66	1,108.61	1,019.46	89.15	12.435	
16,600.00	9,834.84	15,676.42	8,944.10	66.98	64.89	-90.488	6,279.22	1,442.05	1,109.17	1,018.93	90.24	12.291	
16,700.00	9,835.36	15,776.42	8,943.93	67.71	65.65	-90.488	6,379.22	1,441.43	1,109.73	1,018.40	91.33	12.151	
16,800.00	9,835.89	15,876.42	8,943.75	68.45	66.41	-90.488	6,479.21	1,440.81	1,110.29	1,017.87	92.43	12.013	
16,900.00	9,836.41	15,976.41	8,943.58	69.19	67.17	-90.488	6,579.21	1,440.20	1,110.86	1,017.33	93.52	11.878	
17,000.00	9,836.93	16,076.41	8,943.40	69.93	67.93	-90.488	6,679.20	1,439.58	1,111.42	1,016.79	94.63	11.745	
17,100.00	9,837.46	16,176.41	8,943.23	70.67	68.70	-90.488	6,779.20	1,438.97	1,111.98	1,016.25	95.73	11.616	
17,200.00	9,837.98	16,276.41	8,943.06	71.42	69.47	-90.488	6,879.20	1,438.35	1,112.54	1,015.71	96.84	11.489	
17,300.00	9,838.50	16,376.40	8,942.88	72.17	70.24	-90.488	6,979.19	1,437.73	1,113.11	1,015.16	97.95	11.365	
17,400.00	9,839.03	16,476.40	8,942.71	72.93	71.01	-90.488	7,079.19	1,437.12	1,113.67	1,014.61	99.06	11.243	
17,500.00	9,839.55	16,576.40	8,942.53	73.68	71.78	-90.489	7,179.18	1,436.50	1,114.23	1,014.06	100.17	11.123	
17,600.00	9,840.07	16,676.40	8,942.36	74.44	72.56	-90.489	7,279.18	1,435.89	1,114.79	1,013.51	101.29	11.006	
17,700.00	9,840.60	16,776.39	8,942.18	75.20	73.34	-90.489	7,379.17	1,435.27	1,115.36	1,012.95	102.41	10.891	
17,800.00	9,841.12	16,876.39	8,942.01	75.96	74.12	-90.489	7,479.17	1,434.66	1,115.92	1,012.39	103.53	10.779	
17,900.00	9,841.65	16,976.39	8,941.83	76.73	74.90	-90.489	7,579.16	1,434.04	1,116.48	1,011.83	104.65	10.669	
18,000.00	9,842.17	17,076.39	8,941.66	77.49	75.69	-90.489	7,679.16	1,433.42	1,117.05	1,011.27	105.78	10.560	
18,100.00	9,842.69	17,176.38	8,941.48	78.26	76.47	-90.489	7,779.15	1,432.81	1,117.61	1,010.71	106.91	10.454	
18,200.00	9,843.22	17,276.38	8,941.31	79.03	77.26	-90.489	7,879.15	1,432.19	1,118.18	1,010.14	108.03	10.350	
18,300.00	9,843.74	17,376.38	8,941.14	79.81	78.05	-90.489	7,979.15	1,431.58	1,118.74	1,009.57	109.17	10.248	

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 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**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
18,400.00	9,844.26	17,476.38	8,940.96	80.58	78.84	-90.490	8,079.14	1,430.96	1,119.30	1,009.01	110.30	10.148	
18,500.00	9,844.79	17,576.37	8,940.79	81.36	79.64	-90.490	8,179.14	1,430.34	1,119.87	1,008.44	111.43	10.050	
18,600.00	9,845.31	17,676.37	8,940.61	82.13	80.43	-90.490	8,279.13	1,429.73	1,120.43	1,007.86	112.57	9.953	
18,700.00	9,845.83	17,776.37	8,940.44	82.91	81.23	-90.490	8,379.13	1,429.11	1,121.00	1,007.29	113.71	9.859	
18,800.00	9,846.36	17,876.37	8,940.26	83.70	82.02	-90.490	8,479.12	1,428.50	1,121.56	1,006.72	114.84	9.766	
18,900.00	9,846.88	17,976.36	8,940.09	84.48	82.82	-90.490	8,579.12	1,427.88	1,122.13	1,006.14	115.98	9.675	
19,000.00	9,847.41	18,076.36	8,939.91	85.27	83.62	-90.490	8,679.11	1,427.26	1,122.69	1,005.57	117.13	9.585	
19,100.00	9,847.93	18,176.36	8,939.74	86.05	84.42	-90.490	8,779.11	1,426.65	1,123.26	1,004.99	118.27	9.497	
19,200.00	9,848.45	18,276.36	8,939.57	86.84	85.23	-90.490	8,879.11	1,426.03	1,123.82	1,004.41	119.41	9.411	
19,300.00	9,848.98	18,376.36	8,939.39	87.63	86.03	-90.490	8,979.10	1,425.42	1,124.39	1,003.83	120.56	9.326	
19,400.00	9,849.50	18,476.35	8,939.22	88.42	86.84	-90.491	9,079.10	1,424.80	1,124.95	1,003.25	121.71	9.243	
19,500.00	9,850.02	18,576.35	8,939.04	89.21	87.64	-90.491	9,179.09	1,424.19	1,125.52	1,002.67	122.85	9.162	
19,600.00	9,850.55	18,676.35	8,938.87	90.01	88.45	-90.491	9,279.09	1,423.57	1,126.09	1,002.08	124.00	9.081	
19,700.00	9,851.07	18,776.35	8,938.69	90.80	89.26	-90.491	9,379.08	1,422.95	1,126.65	1,001.50	125.15	9.002	
19,800.00	9,851.59	18,876.34	8,938.52	91.60	90.07	-90.491	9,479.08	1,422.34	1,127.22	1,000.92	126.30	8.925	
19,900.00	9,852.12	18,976.34	8,938.34	92.39	90.88	-90.491	9,579.07	1,421.72	1,127.78	1,000.33	127.45	8.849	
20,000.00	9,852.64	19,076.34	8,938.17	93.19	91.69	-90.491	9,679.07	1,421.11	1,128.35	999.75	128.60	8.774	
20,100.00	9,853.16	19,176.34	8,938.00	93.99	92.50	-90.491	9,779.07	1,420.49	1,128.92	999.16	129.76	8.700	
20,200.00	9,853.69	19,276.33	8,937.82	94.79	93.32	-90.491	9,879.06	1,419.87	1,129.48	998.57	130.91	8.628	
20,300.00	9,854.21	19,376.33	8,937.65	95.60	94.13	-90.492	9,979.06	1,419.26	1,130.05	997.99	132.06	8.557	
20,355.05	9,854.50	19,431.36	8,937.55	96.04	94.58	-90.493	10,034.09	1,418.92	1,130.36	997.66	132.70	8.518	

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**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
0.00	0.00	0.00	0.00	0.00	0.00	-90.000	0.00	-25.00	25.00				
100.00	100.00	100.00	100.00	0.26	0.26	-90.000	0.00	-25.00	25.00	24.47	0.53	47.442	
200.00	200.00	200.00	200.00	0.62	0.62	-90.000	0.00	-25.00	25.00	23.76	1.24	20.098	
300.00	300.00	300.00	300.00	0.98	0.98	-90.000	0.00	-25.00	25.00	23.04	1.96	12.750	
400.00	400.00	400.00	400.00	1.34	1.34	-90.000	0.00	-25.00	25.00	22.32	2.68	9.336	
500.00	500.00	500.00	500.00	1.70	1.70	-90.000	0.00	-25.00	25.00	21.61	3.39	7.364	CC
600.00	599.99	599.99	599.99	2.04	2.06	-88.748	0.00	-25.00	25.67	21.58	4.10	6.266	ES
700.00	699.96	699.96	699.96	2.38	2.41	-85.365	0.00	-25.00	27.76	22.97	4.79	5.793	
800.00	799.86	799.86	799.86	2.72	2.77	-80.757	0.00	-25.00	31.42	25.93	5.49	5.719	SF
900.00	899.66	899.66	899.66	3.07	3.13	-76.731	0.00	-25.00	37.32	31.12	6.20	6.019	
1,000.00	999.27	999.27	999.27	3.42	3.49	-74.348	0.00	-25.00	45.93	39.02	6.91	6.647	
1,100.00	1,098.63	1,098.63	1,098.63	3.78	3.84	-73.199	0.00	-25.00	57.15	49.53	7.62	7.502	
1,200.00	1,197.67	1,197.67	1,197.67	4.14	4.20	-72.825	0.00	-25.00	70.94	62.62	8.33	8.520	
1,300.00	1,296.32	1,297.15	1,297.14	4.51	4.54	-73.340	-0.79	-24.75	86.82	77.81	9.02	9.626	
1,400.00	1,394.52	1,396.49	1,396.45	4.87	4.86	-74.722	-3.22	-24.00	104.32	94.63	9.70	10.758	
1,500.00	1,492.20	1,495.59	1,495.46	5.25	5.19	-76.543	-7.28	-22.73	123.54	113.16	10.38	11.904	
1,600.00	1,589.28	1,594.39	1,594.08	5.63	5.52	-78.557	-12.95	-20.96	144.57	133.51	11.06	13.071	
1,691.85	1,677.88	1,684.81	1,684.23	5.98	5.83	-80.451	-19.57	-18.89	165.57	153.88	11.69	14.165	
1,700.00	1,685.72	1,692.81	1,692.21	6.01	5.85	-80.619	-20.22	-18.69	167.51	155.76	11.75	14.260	
1,800.00	1,781.86	1,791.16	1,790.11	6.40	6.19	-82.646	-29.08	-15.92	190.97	178.54	12.43	15.364	
1,900.00	1,878.00	1,888.59	1,886.98	6.79	6.52	-84.507	-39.03	-12.81	214.14	201.03	13.12	16.327	
2,000.00	1,974.14	1,985.65	1,983.48	7.18	6.86	-86.008	-49.00	-9.70	237.47	223.67	13.81	17.202	
2,100.00	2,070.27	2,082.71	2,079.97	7.58	7.20	-87.240	-58.96	-6.59	260.94	246.44	14.50	17.998	
2,200.00	2,166.41	2,179.76	2,176.47	7.98	7.54	-88.268	-68.93	-3.47	284.50	269.31	15.19	18.725	
2,300.00	2,262.55	2,276.82	2,272.96	8.38	7.88	-89.138	-78.89	-0.36	308.15	292.26	15.89	19.389	
2,400.00	2,358.69	2,373.88	2,369.46	8.78	8.22	-89.884	-88.86	2.75	331.85	315.26	16.59	19.998	
2,500.00	2,454.83	2,470.94	2,465.96	9.18	8.57	-90.530	-98.82	5.86	355.61	338.31	17.30	20.558	
2,600.00	2,550.97	2,568.00	2,562.45	9.59	8.91	-91.096	-108.79	8.97	379.40	361.40	18.00	21.074	
2,700.00	2,647.11	2,665.06	2,658.95	9.99	9.26	-91.594	-118.75	12.09	403.23	384.52	18.71	21.550	
2,800.00	2,743.25	2,762.12	2,755.45	10.40	9.60	-92.037	-128.72	15.20	427.09	407.67	19.42	21.992	
2,900.00	2,839.39	2,859.18	2,851.94	10.81	9.95	-92.433	-138.68	18.31	450.97	430.83	20.13	22.402	
3,000.00	2,935.53	2,956.24	2,948.44	11.22	10.30	-92.789	-148.65	21.42	474.86	454.02	20.84	22.784	
3,100.00	3,031.67	3,053.30	3,044.94	11.62	10.65	-93.111	-158.61	24.54	498.78	477.22	21.55	23.140	
3,200.00	3,127.81	3,150.36	3,141.43	12.03	11.00	-93.403	-168.58	27.65	522.71	500.44	22.27	23.473	
3,300.00	3,223.95	3,247.42	3,237.93	12.44	11.35	-93.670	-178.55	30.76	546.65	523.66	22.98	23.784	
3,400.00	3,320.09	3,344.48	3,334.42	12.85	11.70	-93.915	-188.51	33.87	570.60	546.90	23.70	24.077	
3,500.00	3,416.23	3,441.54	3,430.92	13.26	12.06	-94.139	-198.48	36.98	594.56	570.15	24.42	24.352	
3,600.00	3,512.37	3,538.60	3,527.42	13.67	12.41	-94.347	-208.44	40.10	618.53	593.40	25.13	24.611	
3,700.00	3,608.51	3,635.66	3,623.91	14.08	12.76	-94.539	-218.41	43.21	642.51	616.66	25.85	24.855	
3,800.00	3,704.65	3,732.72	3,720.41	14.49	13.11	-94.717	-228.37	46.32	666.50	639.93	26.57	25.085	
3,900.00	3,800.79	3,829.78	3,816.91	14.91	13.47	-94.882	-238.34	49.43	690.49	663.20	27.29	25.303	
4,000.00	3,896.93	3,926.83	3,913.40	15.32	13.82	-95.037	-248.30	52.54	714.48	686.48	28.01	25.510	
4,100.00	3,993.07	4,023.89	4,009.90	15.73	14.17	-95.181	-258.27	55.66	738.49	709.76	28.73	25.706	
4,200.00	4,089.21	4,120.95	4,106.40	16.14	14.53	-95.317	-268.23	58.77	762.49	733.04	29.45	25.892	
4,300.00	4,185.35	4,218.01	4,202.89	16.55	14.88	-95.444	-278.20	61.88	786.50	756.33	30.17	26.069	
4,400.00	4,281.49	4,315.07	4,299.39	16.97	15.24	-95.563	-288.16	64.99	810.52	779.62	30.89	26.238	
4,500.00	4,377.63	4,412.13	4,395.88	17.38	15.59	-95.676	-298.13	68.11	834.53	802.92	31.61	26.398	
4,600.00	4,473.77	4,509.19	4,492.38	17.79	15.95	-95.782	-308.09	71.22	858.55	826.22	32.34	26.551	
4,700.00	4,569.91	4,606.25	4,588.88	18.21	16.30	-95.883	-318.06	74.33	882.58	849.52	33.06	26.698	
4,800.00	4,666.05	4,703.31	4,685.37	18.62	16.66	-95.978	-328.03	77.44	906.60	872.82	33.78	26.838	

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 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**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

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
4,900.00	4,762.19	4,800.37	4,781.87	19.03	17.01	-96.069	-337.99	80.55	930.63	896.13	34.50	26.971	
5,000.00	4,858.33	4,897.43	4,878.37	19.45	17.37	-96.155	-347.96	83.67	954.66	919.43	35.23	27.100	
5,100.00	4,954.47	4,994.49	4,974.86	19.86	17.72	-96.236	-357.92	86.78	978.69	942.74	35.95	27.222	
5,200.00	5,050.61	5,091.55	5,071.36	20.27	18.08	-96.314	-367.89	89.89	1,002.73	966.05	36.68	27.340	
5,300.00	5,146.75	5,188.61	5,167.85	20.69	18.43	-96.388	-377.85	93.00	1,026.76	989.36	37.40	27.453	
5,400.00	5,242.89	5,285.67	5,264.35	21.10	18.79	-96.458	-387.82	96.12	1,050.80	1,012.67	38.12	27.562	
5,500.00	5,339.03	5,382.73	5,360.85	21.52	19.15	-96.526	-397.78	99.23	1,074.84	1,035.99	38.85	27.667	
5,600.00	5,435.17	5,479.79	5,457.34	21.93	19.50	-96.591	-407.75	102.34	1,098.88	1,059.30	39.57	27.767	
5,700.00	5,531.31	5,576.85	5,553.84	22.34	19.86	-96.652	-417.71	105.45	1,122.92	1,082.62	40.30	27.864	
5,800.00	5,627.45	5,673.91	5,650.34	22.76	20.22	-96.711	-427.68	108.56	1,146.96	1,105.94	41.03	27.957	
5,900.00	5,723.59	5,770.96	5,746.83	23.17	20.57	-96.768	-437.64	111.68	1,171.01	1,129.26	41.75	28.047	
6,000.00	5,819.73	5,868.02	5,843.33	23.59	20.93	-96.823	-447.61	114.79	1,195.05	1,152.58	42.48	28.134	
6,100.00	5,915.87	5,962.97	5,937.75	24.00	21.28	-96.853	-457.11	117.76	1,219.15	1,175.96	43.19	28.229	
6,200.00	6,012.01	6,056.28	6,030.68	24.42	21.62	-96.811	-465.13	120.26	1,243.51	1,199.62	43.89	28.336	
6,300.00	6,108.15	6,149.42	6,123.56	24.83	21.96	-96.703	-471.69	122.31	1,268.16	1,223.58	44.58	28.449	
6,400.00	6,204.28	6,242.32	6,216.31	25.25	22.29	-96.533	-476.80	123.91	1,293.11	1,247.85	45.26	28.570	
6,500.00	6,300.42	6,334.94	6,308.85	25.66	22.62	-96.305	-480.47	125.05	1,318.37	1,272.43	45.94	28.698	
6,600.00	6,396.56	6,427.24	6,401.12	26.08	22.95	-96.022	-482.70	125.75	1,343.95	1,297.34	46.61	28.833	
6,700.00	6,492.70	6,519.17	6,493.04	26.49	23.27	-95.690	-483.51	126.00	1,369.87	1,322.60	47.27	28.977	
6,800.00	6,588.84	6,614.97	6,588.84	26.91	23.59	-95.335	-483.51	126.00	1,396.02	1,348.08	47.94	29.121	
6,900.00	6,684.98	6,711.11	6,684.98	27.32	23.90	-94.994	-483.51	126.00	1,422.23	1,373.62	48.60	29.261	
7,000.00	6,781.12	6,807.25	6,781.12	27.74	24.22	-94.665	-483.51	126.00	1,448.48	1,399.21	49.27	29.398	
7,100.00	6,877.26	6,903.39	6,877.26	28.15	24.53	-94.348	-483.51	126.00	1,474.78	1,424.84	49.94	29.531	
7,200.00	6,973.40	6,999.53	6,973.40	28.57	24.85	-94.041	-483.51	126.00	1,501.12	1,450.51	50.61	29.661	
7,300.00	7,069.54	7,095.67	7,069.54	28.98	25.17	-93.746	-483.51	126.00	1,527.50	1,476.22	51.28	29.787	
7,400.00	7,165.68	7,191.81	7,165.68	29.40	25.49	-93.460	-483.51	126.00	1,553.93	1,501.98	51.95	29.911	
7,500.00	7,261.82	7,287.95	7,261.82	29.81	25.81	-93.184	-483.51	126.00	1,580.39	1,527.76	52.62	30.032	
7,600.00	7,357.96	7,384.09	7,357.96	30.23	26.13	-92.917	-483.51	126.00	1,606.88	1,553.59	53.30	30.149	
7,700.00	7,454.10	7,480.23	7,454.10	30.64	26.45	-92.659	-483.51	126.00	1,633.41	1,579.44	53.97	30.264	
7,800.00	7,550.24	7,576.37	7,550.24	31.06	26.77	-92.409	-483.51	126.00	1,659.97	1,605.33	54.65	30.377	
7,900.00	7,646.38	7,672.51	7,646.38	31.47	27.09	-92.167	-483.51	126.00	1,686.57	1,631.24	55.32	30.486	
8,000.00	7,742.52	7,768.65	7,742.52	31.89	27.41	-91.932	-483.51	126.00	1,713.19	1,657.19	56.00	30.593	
8,100.00	7,838.66	7,864.79	7,838.66	32.30	27.73	-91.705	-483.51	126.00	1,739.84	1,683.16	56.68	30.698	
8,200.00	7,934.80	7,960.93	7,934.80	32.72	28.06	-91.484	-483.51	126.00	1,766.51	1,709.16	57.35	30.800	
8,245.37	7,978.42	8,004.54	7,978.42	32.91	28.20	-91.386	-483.51	126.00	1,778.62	1,720.96	57.66	30.845	
8,300.00	8,031.05	8,057.17	8,031.05	33.13	28.38	-91.273	-483.51	126.00	1,792.85	1,734.82	58.03	30.893	
8,400.00	8,127.90	8,154.03	8,127.90	33.54	28.71	-91.085	-483.51	126.00	1,817.01	1,758.29	58.72	30.946	
8,500.00	8,225.37	8,251.50	8,225.37	33.93	29.04	-90.920	-483.51	126.00	1,838.71	1,779.31	59.40	30.955	
8,600.00	8,323.40	8,349.52	8,323.40	34.32	29.37	-90.778	-483.51	126.00	1,857.93	1,797.85	60.09	30.921	
8,700.00	8,421.90	8,448.03	8,421.90	34.69	29.70	-90.656	-483.51	126.00	1,874.67	1,813.89	60.77	30.847	
8,800.00	8,520.83	8,546.95	8,520.83	35.06	30.04	-90.555	-483.51	126.00	1,888.89	1,827.43	61.46	30.733	
8,900.00	8,620.10	8,646.23	8,620.10	35.42	30.37	-90.472	-483.51	126.00	1,900.60	1,838.45	62.15	30.581	
9,000.00	8,719.65	8,745.78	8,719.65	35.76	30.71	-90.408	-483.51	126.00	1,909.77	1,846.93	62.84	30.392	
9,100.00	8,819.42	8,845.54	8,819.42	36.10	31.05	-90.362	-483.51	126.00	1,916.40	1,852.87	63.52	30.168	
9,200.00	8,919.33	8,945.45	8,919.33	36.43	31.39	-90.334	-483.51	126.00	1,920.48	1,856.27	64.21	29.910	
9,300.00	9,019.31	9,045.44	9,019.31	36.75	31.73	-90.324	-483.51	126.00	1,922.02	1,857.13	64.89	29.619	
9,310.15	9,029.46	9,055.59	9,029.46	36.78	31.77	-90.324	-483.51	126.00	1,922.03	1,857.07	64.96	29.589	
9,400.00	9,119.31	9,145.44	9,119.31	37.05	32.07	-90.324	-483.51	126.00	1,922.03	1,856.48	65.55	29.321	
9,500.00	9,219.31	9,257.68	9,231.42	37.35	32.45	-90.217	-479.94	126.19	1,921.86	1,855.58	66.28	28.995	
9,510.15	9,229.46	9,270.09	9,243.74	37.38	32.50	-90.172	-478.42	126.27	1,921.80	1,855.43	66.36	28.960	

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 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**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

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
9,550.00	9,269.28	9,318.35	9,291.25	37.51	32.65	-89.962	-470.00	126.71	1,921.59	1,854.93	66.66	28.827	
9,575.83	9,295.00	9,349.27	9,321.23	37.58	32.75	-89.809	-462.53	127.10	1,921.55	1,854.70	66.84	28.746	
9,600.00	9,318.94	9,377.91	9,348.62	37.66	32.84	-89.657	-454.17	127.54	1,921.58	1,854.57	67.01	28.675	
9,650.00	9,367.93	9,436.30	9,402.98	37.80	33.02	-89.319	-432.95	128.65	1,921.88	1,854.53	67.34	28.538	
9,700.00	9,415.86	9,493.47	9,453.85	37.94	33.18	-88.963	-406.92	130.01	1,922.47	1,854.82	67.65	28.417	
9,750.00	9,462.37	9,549.43	9,500.87	38.08	33.33	-88.604	-376.68	131.60	1,923.39	1,855.45	67.94	28.311	
9,800.00	9,507.11	9,604.16	9,543.80	38.20	33.47	-88.254	-342.80	133.37	1,924.61	1,856.42	68.20	28.221	
9,850.00	9,549.73	9,657.71	9,582.47	38.31	33.60	-87.927	-305.85	135.31	1,926.16	1,857.72	68.44	28.146	
9,900.00	9,589.92	9,710.09	9,616.81	38.41	33.71	-87.632	-266.37	137.38	1,928.00	1,859.35	68.65	28.085	
9,950.00	9,627.36	9,761.37	9,646.79	38.50	33.81	-87.378	-224.84	139.56	1,930.15	1,861.31	68.84	28.037	
10,000.00	9,661.78	9,811.60	9,672.43	38.58	33.90	-87.169	-181.73	141.82	1,932.57	1,863.56	69.01	28.003	
10,050.00	9,692.91	9,860.84	9,693.81	38.64	33.98	-87.012	-137.45	144.14	1,935.26	1,866.10	69.16	27.982	
10,100.00	9,720.50	9,909.15	9,711.01	38.69	34.06	-86.906	-92.38	146.50	1,938.20	1,868.91	69.29	27.972	
10,150.00	9,744.37	9,956.59	9,724.14	38.73	34.12	-86.854	-46.87	148.88	1,941.35	1,871.95	69.40	27.973	
10,200.00	9,764.31	10,003.24	9,733.34	38.75	34.17	-86.855	-1.22	151.28	1,944.69	1,875.19	69.50	27.983	
10,250.00	9,780.18	10,050.00	9,738.79	38.77	34.22	-86.880	45.15	153.71	1,948.18	1,878.61	69.57	28.002	
10,300.00	9,791.86	10,093.06	9,740.45	38.77	34.26	-87.041	88.11	155.96	1,951.81	1,882.17	69.63	28.029	
10,350.00	9,799.26	10,122.39	9,740.61	38.77	34.29	-87.626	117.41	157.32	1,955.75	1,886.05	69.70	28.060	
10,400.00	9,802.33	10,151.93	9,740.76	38.77	34.32	-88.217	146.93	158.38	1,960.12	1,890.35	69.77	28.094	
10,407.15	9,802.41	10,156.16	9,740.78	38.77	34.32	-88.301	151.15	158.51	1,960.78	1,891.00	69.78	28.099	
10,500.00	9,802.90	10,200.00	9,741.01	38.76	34.36	-89.721	194.98	159.47	1,968.81	1,898.88	69.93	28.153	
10,600.00	9,803.42	10,278.39	9,741.42	38.75	34.45	-90.341	273.37	159.58	1,975.93	1,905.80	70.13	28.174	
10,700.00	9,803.95	10,378.29	9,741.95	38.74	34.59	-90.341	373.26	158.97	1,980.28	1,909.90	70.38	28.135	
10,774.74	9,804.34	10,453.02	9,742.34	38.72	34.70	-90.341	448.00	158.51	1,981.25	1,910.66	70.60	28.063	
10,800.00	9,804.47	10,478.28	9,742.47	38.72	34.75	-90.341	473.25	158.36	1,981.25	1,910.58	70.68	28.033	
10,900.00	9,804.99	10,578.28	9,742.99	38.71	34.92	-90.341	573.25	157.74	1,981.25	1,910.24	71.01	27.901	
11,000.00	9,805.52	10,678.28	9,743.52	38.70	35.12	-90.341	673.25	157.13	1,981.25	1,909.86	71.38	27.755	
11,100.00	9,806.04	10,778.28	9,744.04	38.70	35.34	-90.341	773.24	156.52	1,981.25	1,909.45	71.80	27.595	
11,200.00	9,806.56	10,878.28	9,744.56	38.69	35.58	-90.341	873.24	155.91	1,981.24	1,908.99	72.25	27.422	
11,300.00	9,807.09	10,978.28	9,745.09	38.70	35.84	-90.341	973.24	155.30	1,981.24	1,908.50	72.74	27.236	
11,400.00	9,807.61	11,078.28	9,745.61	38.70	36.11	-90.341	1,073.23	154.69	1,981.24	1,907.96	73.27	27.039	
11,500.00	9,808.13	11,178.28	9,746.14	38.72	36.41	-90.341	1,173.23	154.08	1,981.23	1,907.39	73.84	26.832	
11,600.00	9,808.66	11,278.28	9,746.66	38.75	36.72	-90.341	1,273.23	153.46	1,981.23	1,906.79	74.44	26.615	
11,700.00	9,809.18	11,378.28	9,747.18	38.82	37.05	-90.341	1,373.22	152.85	1,981.23	1,906.15	75.08	26.389	
11,800.00	9,809.71	11,478.28	9,747.71	38.97	37.40	-90.341	1,473.22	152.24	1,981.22	1,905.47	75.75	26.155	
11,900.00	9,810.23	11,578.28	9,748.23	39.22	37.77	-90.341	1,573.22	151.63	1,981.22	1,904.77	76.46	25.913	
12,000.00	9,810.75	11,678.28	9,748.75	39.54	38.15	-90.341	1,673.21	151.02	1,981.22	1,904.03	77.19	25.666	
12,100.00	9,811.28	11,778.28	9,749.28	39.90	38.54	-90.341	1,773.21	150.41	1,981.22	1,903.25	77.96	25.413	
12,200.00	9,811.80	11,878.28	9,749.80	40.28	38.95	-90.341	1,873.21	149.80	1,981.21	1,902.45	78.76	25.155	
12,300.00	9,812.32	11,978.28	9,750.32	40.68	39.38	-90.341	1,973.20	149.18	1,981.21	1,901.62	79.59	24.892	
12,400.00	9,812.85	12,078.28	9,750.85	41.10	39.82	-90.341	2,073.20	148.57	1,981.21	1,900.76	80.45	24.627	
12,500.00	9,813.37	12,178.28	9,751.37	41.53	40.28	-90.341	2,173.20	147.96	1,981.20	1,899.87	81.33	24.359	
12,600.00	9,813.89	12,278.28	9,751.89	41.98	40.75	-90.341	2,273.19	147.35	1,981.20	1,898.95	82.25	24.088	
12,700.00	9,814.42	12,378.28	9,752.42	42.44	41.23	-90.341	2,373.19	146.74	1,981.20	1,898.01	83.19	23.816	
12,800.00	9,814.94	12,478.28	9,752.94	42.91	41.72	-90.341	2,473.19	146.13	1,981.19	1,897.04	84.15	23.544	
12,900.00	9,815.47	12,578.28	9,753.47	43.40	42.23	-90.341	2,573.18	145.52	1,981.19	1,896.05	85.14	23.270	
13,000.00	9,815.99	12,678.28	9,753.99	43.90	42.74	-90.341	2,673.18	144.90	1,981.19	1,895.04	86.15	22.997	
13,100.00	9,816.51	12,778.28	9,754.51	44.41	43.27	-90.341	2,773.18	144.29	1,981.19	1,894.00	87.18	22.724	
13,200.00	9,817.04	12,878.28	9,755.04	44.92	43.81	-90.341	2,873.17	143.68	1,981.18	1,892.94	88.24	22.452	
13,300.00	9,817.56	12,978.28	9,755.56	45.46	44.36	-90.341	2,973.17	143.07	1,981.18	1,891.86	89.32	22.181	

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 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**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

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
13,400.00	9,818.08	13,078.28	9,756.08	46.00	44.92	-90.341	3,073.17	142.46	1,981.18	1,890.76	90.42	21.912	
13,500.00	9,818.61	13,178.28	9,756.61	46.55	45.49	-90.341	3,173.16	141.85	1,981.17	1,889.64	91.53	21.644	
13,600.00	9,819.13	13,278.28	9,757.13	47.11	46.07	-90.341	3,273.16	141.24	1,981.17	1,888.50	92.67	21.379	
13,700.00	9,819.65	13,378.28	9,757.65	47.67	46.65	-90.341	3,373.16	140.62	1,981.17	1,887.34	93.82	21.116	
13,800.00	9,820.18	13,478.28	9,758.18	48.25	47.25	-90.341	3,473.15	140.01	1,981.16	1,886.17	95.00	20.855	
13,900.00	9,820.70	13,578.28	9,758.70	48.84	47.85	-90.341	3,573.15	139.40	1,981.16	1,884.98	96.19	20.597	
14,000.00	9,821.23	13,678.28	9,759.22	49.43	48.46	-90.341	3,673.15	138.79	1,981.16	1,883.77	97.39	20.342	
14,100.00	9,821.75	13,778.28	9,759.75	50.03	49.08	-90.341	3,773.15	138.18	1,981.16	1,882.54	98.61	20.090	
14,200.00	9,822.27	13,878.28	9,760.27	50.64	49.71	-90.341	3,873.14	137.57	1,981.15	1,881.30	99.85	19.842	
14,300.00	9,822.80	13,978.28	9,760.80	51.26	50.35	-90.341	3,973.14	136.96	1,981.15	1,880.05	101.10	19.596	
14,400.00	9,823.32	14,078.28	9,761.32	51.88	50.99	-90.341	4,073.14	136.34	1,981.15	1,878.78	102.36	19.354	
14,500.00	9,823.84	14,178.28	9,761.84	52.51	51.63	-90.341	4,173.13	135.73	1,981.14	1,877.50	103.64	19.115	
14,600.00	9,824.37	14,278.28	9,762.37	53.15	52.29	-90.341	4,273.13	135.12	1,981.14	1,876.21	104.93	18.880	
14,700.00	9,824.89	14,378.28	9,762.89	53.80	52.95	-90.341	4,373.13	134.51	1,981.14	1,874.90	106.24	18.648	
14,800.00	9,825.41	14,478.28	9,763.41	54.45	53.61	-90.341	4,473.12	133.90	1,981.14	1,873.58	107.55	18.420	
14,900.00	9,825.94	14,578.28	9,763.94	55.10	54.29	-90.341	4,573.12	133.29	1,981.13	1,872.25	108.88	18.196	
15,000.00	9,826.46	14,678.28	9,764.46	55.76	54.96	-90.341	4,673.12	132.68	1,981.13	1,870.91	110.22	17.975	
15,100.00	9,826.98	14,778.28	9,764.98	56.43	55.64	-90.341	4,773.11	132.06	1,981.13	1,869.56	111.57	17.757	
15,200.00	9,827.51	14,878.28	9,765.51	57.10	56.33	-90.341	4,873.11	131.45	1,981.12	1,868.19	112.93	17.543	
15,300.00	9,828.03	14,978.28	9,766.03	57.78	57.02	-90.341	4,973.11	130.84	1,981.12	1,866.82	114.30	17.333	
15,400.00	9,828.56	15,078.28	9,766.55	58.46	57.72	-90.341	5,073.10	130.23	1,981.12	1,865.44	115.68	17.126	
15,500.00	9,829.08	15,178.28	9,767.08	59.15	58.42	-90.341	5,173.10	129.62	1,981.11	1,864.05	117.07	16.923	
15,600.00	9,829.60	15,278.28	9,767.60	59.84	59.13	-90.341	5,273.10	129.01	1,981.11	1,862.65	118.47	16.723	
15,700.00	9,830.13	15,378.28	9,768.13	60.54	59.84	-90.341	5,373.09	128.39	1,981.11	1,861.24	119.87	16.527	
15,800.00	9,830.65	15,478.28	9,768.65	61.24	60.55	-90.341	5,473.09	127.78	1,981.11	1,859.82	121.29	16.334	
15,900.00	9,831.17	15,578.28	9,769.17	61.94	61.27	-90.341	5,573.09	127.17	1,981.10	1,858.39	122.71	16.144	
16,000.00	9,831.70	15,678.28	9,769.70	62.65	61.99	-90.341	5,673.08	126.56	1,981.10	1,856.96	124.14	15.958	
16,100.00	9,832.22	15,778.28	9,770.22	63.36	62.72	-90.341	5,773.08	125.95	1,981.10	1,855.51	125.58	15.775	
16,200.00	9,832.74	15,878.28	9,770.74	64.08	63.45	-90.341	5,873.08	125.34	1,981.09	1,854.07	127.03	15.596	
16,300.00	9,833.27	15,978.28	9,771.27	64.80	64.18	-90.341	5,973.07	124.73	1,981.09	1,852.61	128.48	15.419	
16,400.00	9,833.79	16,078.28	9,771.79	65.52	64.92	-90.341	6,073.07	124.11	1,981.09	1,851.15	129.94	15.246	
16,500.00	9,834.32	16,178.28	9,772.31	66.25	65.65	-90.341	6,173.07	123.50	1,981.08	1,849.68	131.41	15.076	
16,600.00	9,834.84	16,278.28	9,772.84	66.98	66.40	-90.341	6,273.06	122.89	1,981.08	1,848.20	132.88	14.909	
16,700.00	9,835.36	16,378.28	9,773.36	67.71	67.14	-90.341	6,373.06	122.28	1,981.08	1,846.72	134.36	14.744	
16,800.00	9,835.89	16,478.28	9,773.88	68.45	67.89	-90.341	6,473.06	121.67	1,981.08	1,845.23	135.85	14.583	
16,900.00	9,836.41	16,578.28	9,774.41	69.19	68.64	-90.341	6,573.05	121.06	1,981.07	1,843.74	137.34	14.425	
17,000.00	9,836.93	16,678.28	9,774.93	69.93	69.39	-90.341	6,673.05	120.45	1,981.07	1,842.24	138.83	14.269	
17,100.00	9,837.46	16,778.28	9,775.46	70.67	70.15	-90.341	6,773.05	119.83	1,981.07	1,840.73	140.34	14.117	
17,200.00	9,837.98	16,878.28	9,775.98	71.42	70.91	-90.341	6,873.04	119.22	1,981.06	1,839.22	141.84	13.967	
17,300.00	9,838.50	16,978.28	9,776.50	72.17	71.67	-90.341	6,973.04	118.61	1,981.06	1,837.71	143.36	13.819	
17,400.00	9,839.03	17,078.28	9,777.03	72.93	72.43	-90.341	7,073.04	118.00	1,981.06	1,836.19	144.87	13.674	
17,500.00	9,839.55	17,178.28	9,777.55	73.68	73.20	-90.341	7,173.04	117.39	1,981.06	1,834.66	146.39	13.532	
17,600.00	9,840.07	17,278.28	9,778.07	74.44	73.97	-90.341	7,273.03	116.78	1,981.05	1,833.13	147.92	13.393	
17,700.00	9,840.60	17,378.28	9,778.60	75.20	74.74	-90.341	7,373.03	116.17	1,981.05	1,831.60	149.45	13.255	
17,800.00	9,841.12	17,478.28	9,779.12	75.96	75.51	-90.341	7,473.03	115.55	1,981.05	1,830.06	150.99	13.121	
17,900.00	9,841.65	17,578.28	9,779.64	76.73	76.28	-90.341	7,573.02	114.94	1,981.04	1,828.51	152.53	12.988	
18,000.00	9,842.17	17,678.28	9,780.17	77.49	77.06	-90.341	7,673.02	114.33	1,981.04	1,826.97	154.07	12.858	
18,100.00	9,842.69	17,778.28	9,780.69	78.26	77.84	-90.341	7,773.02	113.72	1,981.04	1,825.42	155.62	12.730	
18,200.00	9,843.22	17,878.28	9,781.21	79.03	78.62	-90.341	7,873.01	113.11	1,981.03	1,823.86	157.17	12.604	
18,300.00	9,843.74	17,978.28	9,781.74	79.81	79.40	-90.341	7,973.01	112.50	1,981.03	1,822.30	158.73	12.481	

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 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**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
18,400.00	9,844.26	18,078.28	9,782.26	80.58	80.18	-90.341	8,073.01	111.89	1,981.03	1,820.74	160.29	12.359	
18,500.00	9,844.79	18,178.28	9,782.79	81.36	80.97	-90.341	8,173.00	111.27	1,981.03	1,819.18	161.85	12.240	
18,600.00	9,845.31	18,278.28	9,783.31	82.13	81.75	-90.341	8,273.00	110.66	1,981.02	1,817.61	163.41	12.123	
18,700.00	9,845.83	18,378.28	9,783.83	82.91	82.54	-90.341	8,373.00	110.05	1,981.02	1,816.04	164.98	12.007	
18,800.00	9,846.36	18,478.28	9,784.36	83.70	83.33	-90.341	8,472.99	109.44	1,981.02	1,814.46	166.56	11.894	
18,900.00	9,846.88	18,578.28	9,784.88	84.48	84.12	-90.341	8,572.99	108.83	1,981.01	1,812.88	168.13	11.782	
19,000.00	9,847.41	18,678.28	9,785.40	85.27	84.92	-90.341	8,672.99	108.22	1,981.01	1,811.30	169.71	11.673	
19,100.00	9,847.93	18,778.28	9,785.93	86.05	85.71	-90.341	8,772.98	107.61	1,981.01	1,809.71	171.29	11.565	
19,200.00	9,848.45	18,878.28	9,786.45	86.84	86.51	-90.341	8,872.98	106.99	1,981.00	1,808.13	172.88	11.459	
19,300.00	9,848.98	18,978.28	9,786.97	87.63	87.30	-90.341	8,972.98	106.38	1,981.00	1,806.54	174.46	11.355	
19,400.00	9,849.50	19,078.28	9,787.50	88.42	88.10	-90.341	9,072.97	105.77	1,981.00	1,804.94	176.05	11.252	
19,500.00	9,850.02	19,178.28	9,788.02	89.21	88.90	-90.341	9,172.97	105.16	1,981.00	1,803.35	177.65	11.151	
19,600.00	9,850.55	19,278.28	9,788.54	90.01	89.70	-90.341	9,272.97	104.55	1,980.99	1,801.75	179.24	11.052	
19,700.00	9,851.07	19,378.28	9,789.07	90.80	90.50	-90.341	9,372.96	103.94	1,980.99	1,800.15	180.84	10.954	
19,800.00	9,851.59	19,478.28	9,789.59	91.60	91.31	-90.341	9,472.96	103.33	1,980.99	1,798.55	182.44	10.858	
19,900.00	9,852.12	19,578.28	9,790.12	92.39	92.11	-90.341	9,572.96	102.71	1,980.98	1,796.94	184.04	10.764	
20,000.00	9,852.64	19,678.28	9,790.64	93.19	92.92	-90.341	9,672.95	102.10	1,980.98	1,795.33	185.65	10.671	
20,100.00	9,853.16	19,778.28	9,791.16	93.99	93.72	-90.341	9,772.95	101.49	1,980.98	1,793.72	187.26	10.579	
20,200.00	9,853.69	19,878.28	9,791.69	94.79	94.53	-90.341	9,872.95	100.88	1,980.98	1,792.11	188.87	10.489	
20,300.00	9,854.21	19,978.28	9,792.21	95.60	95.34	-90.341	9,972.94	100.27	1,980.97	1,790.49	190.48	10.400	
20,348.88	9,854.47	20,027.16	9,792.47	95.99	95.73	-90.341	10,021.82	99.97	1,980.97	1,789.71	191.27	10.357	
20,355.05	9,854.50	20,028.07	9,792.47	96.04	95.74	-90.493	10,022.73	99.96	1,980.98	1,789.67	191.31	10.355	

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**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

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	90.000	0.00	80.00	80.00				
100.00	100.00	100.00	100.00	0.26	0.26	90.000	0.00	80.00	80.00	79.47	0.53	151.816	
200.00	200.00	200.00	200.00	0.62	0.62	90.000	0.00	80.00	80.00	78.76	1.24	64.314	
300.00	300.00	300.00	300.00	0.98	0.98	90.000	0.00	80.00	80.00	78.04	1.96	40.799	
400.00	400.00	400.00	400.00	1.34	1.34	90.000	0.00	80.00	80.00	77.32	2.68	29.875	
500.00	500.00	500.00	500.00	1.70	1.70	90.000	0.00	80.00	80.00	76.61	3.39	23.566	
600.00	599.99	599.99	599.99	2.04	2.06	89.595	0.00	80.00	79.33	75.24	4.10	19.361	
700.00	699.96	699.96	699.96	2.38	2.41	88.338	0.00	80.00	77.36	72.57	4.79	16.140	
800.00	799.86	799.86	799.86	2.72	2.77	86.097	0.00	80.00	74.16	68.66	5.49	13.498	
900.00	899.66	899.66	899.66	3.07	3.13	82.891	0.00	80.00	69.21	63.01	6.20	11.163	
1,000.00	999.27	999.27	999.27	3.42	3.49	78.477	0.00	80.00	62.03	55.12	6.91	8.976	
1,100.00	1,098.63	1,098.63	1,098.63	3.78	3.84	71.815	0.00	80.00	52.93	45.31	7.62	6.944	
1,200.00	1,197.67	1,197.67	1,197.67	4.14	4.20	60.627	0.00	80.00	42.71	34.37	8.34	5.122	
1,300.00	1,296.32	1,296.17	1,296.16	4.51	4.54	41.366	-0.34	80.73	33.76	24.71	9.05	3.732	
1,398.03	1,392.59	1,392.83	1,392.80	4.87	4.86	12.912	-1.37	82.94	29.98	20.26	9.73	3.082	CC
1,400.00	1,394.52	1,394.78	1,394.74	4.87	4.87	12.276	-1.40	83.00	29.99	20.24	9.74	3.078	ES, SF
1,500.00	1,492.20	1,493.53	1,493.40	5.25	5.21	-17.834	-3.18	86.81	34.51	24.09	10.42	3.313	
1,600.00	1,589.28	1,592.40	1,592.10	5.63	5.55	-38.407	-5.68	92.17	45.94	34.86	11.09	4.144	
1,691.85	1,677.88	1,683.34	1,682.76	5.98	5.86	-50.029	-8.62	98.46	59.97	48.26	11.71	5.123	
1,700.00	1,685.72	1,691.41	1,690.81	6.01	5.89	-50.830	-8.91	99.08	61.31	49.55	11.76	5.213	
1,800.00	1,781.86	1,790.84	1,789.80	6.40	6.23	-58.276	-12.87	107.58	77.68	65.24	12.44	6.244	
1,900.00	1,878.00	1,890.87	1,889.20	6.79	6.58	-63.058	-17.60	117.70	93.18	80.06	13.12	7.100	
2,000.00	1,974.14	1,991.43	1,988.92	7.18	6.94	-66.495	-23.08	129.45	107.41	93.60	13.81	7.778	
2,100.00	2,070.27	2,092.48	2,088.87	7.58	7.30	-69.196	-29.34	142.86	120.20	105.70	14.50	8.289	
2,200.00	2,166.41	2,193.94	2,188.96	7.98	7.66	-71.474	-36.37	157.93	131.46	116.26	15.19	8.652	
2,300.00	2,262.55	2,295.76	2,289.10	8.38	8.03	-73.512	-44.18	174.66	141.14	125.25	15.89	8.883	
2,400.00	2,358.69	2,396.07	2,387.49	8.78	8.39	-75.370	-52.44	192.35	149.64	133.04	16.60	9.016	
2,500.00	2,454.83	2,495.61	2,485.10	9.18	8.75	-77.024	-60.67	209.98	158.19	140.87	17.31	9.137	
2,600.00	2,550.97	2,595.15	2,582.72	9.59	9.12	-78.508	-68.90	227.62	166.85	148.82	18.03	9.254	
2,700.00	2,647.11	2,694.69	2,680.34	9.99	9.49	-79.843	-77.13	245.25	175.61	156.86	18.75	9.365	
2,800.00	2,743.25	2,794.22	2,777.96	10.40	9.86	-81.050	-85.36	262.88	184.46	164.98	19.48	9.471	
2,900.00	2,839.39	2,893.76	2,875.57	10.81	10.23	-82.147	-93.59	280.51	193.38	173.18	20.20	9.572	
3,000.00	2,935.53	2,993.30	2,973.19	11.22	10.60	-83.145	-101.82	298.15	202.36	181.43	20.93	9.669	
3,100.00	3,031.67	3,092.84	3,070.81	11.62	10.97	-84.058	-110.05	315.78	211.39	189.73	21.66	9.760	
3,200.00	3,127.81	3,192.38	3,168.43	12.03	11.34	-84.896	-118.28	333.41	220.47	198.09	22.39	9.847	
3,300.00	3,223.95	3,291.91	3,266.04	12.44	11.72	-85.667	-126.51	351.05	229.60	206.48	23.12	9.930	
3,400.00	3,320.09	3,391.45	3,363.66	12.85	12.09	-86.379	-134.74	368.68	238.76	214.91	23.86	10.009	
3,500.00	3,416.23	3,490.99	3,461.28	13.26	12.47	-87.038	-142.97	386.31	247.96	223.37	24.59	10.083	
3,600.00	3,512.37	3,590.53	3,558.90	13.67	12.85	-87.650	-151.20	403.94	257.18	231.85	25.33	10.154	
3,700.00	3,608.51	3,690.07	3,656.51	14.08	13.22	-88.219	-159.43	421.58	266.43	240.37	26.06	10.222	
3,800.00	3,704.65	3,789.61	3,754.13	14.49	13.60	-88.749	-167.66	439.21	275.71	248.90	26.80	10.287	
3,900.00	3,800.79	3,889.14	3,851.75	14.91	13.98	-89.245	-175.89	456.84	285.00	257.46	27.54	10.348	
4,000.00	3,896.93	3,988.68	3,949.37	15.32	14.36	-89.710	-184.12	474.47	294.32	266.04	28.28	10.407	
4,100.00	3,993.07	4,088.22	4,046.98	15.73	14.73	-90.146	-192.35	492.11	303.65	274.63	29.02	10.463	
4,200.00	4,089.21	4,187.76	4,144.60	16.14	15.11	-90.555	-200.58	509.74	313.00	283.24	29.76	10.516	
4,300.00	4,185.35	4,287.30	4,242.22	16.55	15.49	-90.941	-208.82	527.37	322.37	291.86	30.51	10.568	
4,400.00	4,281.49	4,386.83	4,339.84	16.97	15.87	-91.305	-217.05	545.01	331.74	300.50	31.25	10.617	
4,500.00	4,377.63	4,486.37	4,437.45	17.38	16.25	-91.649	-225.28	562.64	341.13	309.14	31.99	10.664	
4,600.00	4,473.77	4,585.91	4,535.07	17.79	16.63	-91.975	-233.51	580.27	350.54	317.80	32.73	10.708	
4,700.00	4,569.91	4,685.45	4,632.69	18.21	17.02	-92.283	-241.74	597.90	359.95	326.47	33.48	10.752	

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 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**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
4,800.00	4,666.05	4,784.99	4,730.31	18.62	17.40	-92.575	-249.97	615.54	369.37	335.15	34.22	10.793	
4,900.00	4,762.19	4,884.52	4,827.92	19.03	17.78	-92.853	-258.20	633.17	378.80	343.83	34.97	10.833	
5,000.00	4,858.33	4,984.06	4,925.54	19.45	18.16	-93.118	-266.43	650.80	388.24	352.53	35.71	10.871	
5,100.00	4,954.47	5,083.60	5,023.16	19.86	18.54	-93.370	-274.66	668.44	397.69	361.23	36.46	10.908	
5,200.00	5,050.61	5,183.14	5,120.78	20.27	18.92	-93.610	-282.89	686.07	407.14	369.93	37.21	10.943	
5,300.00	5,146.75	5,282.68	5,218.39	20.69	19.31	-93.839	-291.12	703.70	416.60	378.65	37.95	10.977	
5,400.00	5,242.89	5,382.22	5,316.01	21.10	19.69	-94.058	-299.35	721.33	426.07	387.37	38.70	11.010	
5,500.00	5,339.03	5,481.75	5,413.63	21.52	20.07	-94.267	-307.58	738.97	435.54	396.09	39.45	11.041	
5,600.00	5,435.17	5,581.29	5,511.25	21.93	20.45	-94.468	-315.81	756.60	445.02	404.82	40.19	11.072	
5,700.00	5,531.31	5,680.83	5,608.86	22.34	20.84	-94.660	-324.04	774.23	454.50	413.56	40.94	11.101	
5,800.00	5,627.45	5,780.37	5,706.48	22.76	21.22	-94.844	-332.27	791.87	463.99	422.30	41.69	11.129	
5,900.00	5,723.59	5,879.91	5,804.10	23.17	21.60	-95.021	-340.50	809.50	473.48	431.04	42.44	11.157	
6,000.00	5,819.73	5,979.44	5,901.72	23.59	21.98	-95.191	-348.73	827.13	482.98	439.79	43.19	11.183	
6,100.00	5,915.87	6,078.98	5,999.34	24.00	22.37	-95.354	-356.96	844.76	492.48	448.54	43.94	11.209	
6,200.00	6,012.01	6,178.52	6,096.95	24.42	22.75	-95.511	-365.19	862.40	501.98	457.30	44.68	11.234	
6,300.00	6,108.15	6,278.06	6,194.57	24.83	23.13	-95.662	-373.42	880.03	511.49	466.06	45.43	11.258	
6,400.00	6,204.28	6,377.60	6,292.19	25.25	23.52	-95.808	-381.65	897.66	521.00	474.82	46.18	11.281	
6,500.00	6,300.42	6,477.14	6,389.81	25.66	23.90	-95.948	-389.88	915.30	530.52	483.59	46.93	11.304	
6,600.00	6,396.56	6,576.67	6,487.42	26.08	24.29	-96.084	-398.11	932.93	540.04	492.35	47.68	11.326	
6,700.00	6,492.70	6,676.21	6,585.04	26.49	24.67	-96.215	-406.34	950.56	549.56	501.12	48.43	11.347	
6,800.00	6,588.84	6,775.75	6,682.66	26.91	25.05	-96.341	-414.57	968.19	559.08	509.90	49.18	11.367	
6,900.00	6,684.98	6,875.29	6,780.28	27.32	25.44	-96.463	-422.80	985.83	568.60	518.67	49.93	11.387	
7,000.00	6,781.12	6,974.83	6,877.89	27.74	25.82	-96.581	-431.03	1,003.46	578.13	527.45	50.68	11.407	
7,100.00	6,877.26	7,066.50	6,967.93	28.15	26.17	-96.580	-438.32	1,019.08	588.32	536.92	51.39	11.447	
7,200.00	6,973.40	7,157.73	7,057.80	28.57	26.52	-96.502	-444.97	1,033.32	599.86	547.77	52.09	11.516	
7,300.00	7,069.54	7,248.66	7,147.61	28.98	26.86	-96.355	-450.99	1,046.22	612.74	559.98	52.77	11.612	
7,400.00	7,165.68	7,339.23	7,237.27	29.40	27.20	-96.144	-456.39	1,057.79	626.98	573.55	53.43	11.734	
7,500.00	7,261.82	7,429.40	7,326.73	29.81	27.54	-95.876	-461.17	1,068.03	642.56	588.48	54.08	11.882	
7,600.00	7,357.96	7,519.14	7,415.92	30.23	27.86	-95.556	-465.34	1,076.95	659.49	604.77	54.71	12.054	
7,700.00	7,454.10	7,608.39	7,504.77	30.64	28.19	-95.192	-468.89	1,084.57	677.75	622.42	55.33	12.249	
7,800.00	7,550.24	7,700.00	7,596.10	31.06	28.52	-94.797	-471.93	1,091.08	697.37	641.41	55.96	12.462	
7,900.00	7,646.38	7,785.29	7,681.22	31.47	28.82	-94.354	-474.21	1,095.96	718.32	661.80	56.52	12.710	
8,000.00	7,742.52	7,872.87	7,768.70	31.89	29.13	-93.892	-475.98	1,099.77	740.62	683.53	57.09	12.974	
8,100.00	7,838.66	7,959.82	7,855.60	32.30	29.43	-93.409	-477.19	1,102.35	764.26	706.61	57.64	13.259	
8,200.00	7,934.80	8,046.11	7,941.87	32.72	29.72	-92.911	-477.84	1,103.73	789.24	731.06	58.18	13.566	
8,245.37	7,978.42	8,085.03	7,980.79	32.91	29.85	-92.681	-477.95	1,103.97	801.01	742.60	58.41	13.713	
8,300.00	8,031.05	8,135.28	8,031.05	33.13	30.02	-92.411	-477.96	1,104.00	815.13	756.39	58.74	13.877	
8,400.00	8,127.90	8,232.13	8,127.90	33.54	30.33	-91.971	-477.96	1,104.00	839.18	779.78	59.39	14.130	
8,500.00	8,225.37	8,329.61	8,225.37	33.93	30.65	-91.597	-477.96	1,104.00	860.80	800.75	60.05	14.335	
8,600.00	8,323.40	8,427.63	8,323.40	34.32	30.97	-91.281	-477.96	1,104.00	879.98	819.27	60.72	14.494	
8,700.00	8,421.90	8,526.14	8,421.90	34.69	31.29	-91.017	-477.96	1,104.00	896.69	835.30	61.38	14.608	
8,800.00	8,520.83	8,625.06	8,520.83	35.06	31.61	-90.801	-477.96	1,104.00	910.89	848.84	62.06	14.679	
8,900.00	8,620.10	8,724.33	8,620.10	35.42	31.94	-90.628	-477.96	1,104.00	922.59	859.86	62.73	14.707	
9,000.00	8,719.65	8,823.89	8,719.65	35.76	32.27	-90.495	-477.96	1,104.00	931.75	868.35	63.40	14.695	
9,100.00	8,819.42	8,923.65	8,819.42	36.10	32.59	-90.401	-477.96	1,104.00	938.38	874.30	64.08	14.644	
9,200.00	8,919.33	9,023.56	8,919.33	36.43	32.92	-90.344	-477.96	1,104.00	942.47	877.71	64.76	14.554	
9,300.00	9,019.31	9,123.55	9,019.31	36.75	33.26	-90.322	-477.96	1,104.00	944.00	878.57	65.43	14.428	
9,310.15	9,029.46	9,133.69	9,029.46	36.78	33.29	-90.322	-477.96	1,104.00	944.01	878.52	65.50	14.413	
9,400.00	9,119.31	9,223.55	9,119.31	37.05	33.59	-90.322	-477.96	1,104.00	944.01	877.93	66.08	14.285	
9,500.00	9,219.31	9,325.64	9,221.41	37.35	33.92	-90.307	-477.71	1,104.02	944.00	877.24	66.76	14.139	

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 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**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
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
9,510.15	9,229.46	9,337.21	9,232.97	37.38	33.96	-90.279	-477.25	1,104.05	943.97	877.12	66.84	14.122	
9,550.00	9,269.28	9,382.49	9,278.06	37.51	34.11	-90.119	-473.23	1,104.33	943.88	876.73	67.16	14.055	
9,558.55	9,277.81	9,392.18	9,287.65	37.53	34.14	-90.078	-471.91	1,104.42	943.88	876.66	67.22	14.041	
9,600.00	9,318.94	9,438.97	9,333.62	37.66	34.29	-89.853	-463.26	1,105.03	943.95	876.42	67.53	13.979	
9,650.00	9,367.93	9,495.01	9,387.51	37.80	34.46	-89.528	-448.02	1,106.09	944.21	876.34	67.88	13.911	
9,700.00	9,415.86	9,550.55	9,439.20	37.94	34.62	-89.156	-427.80	1,107.51	944.68	876.48	68.20	13.852	
9,750.00	9,462.37	9,605.56	9,488.23	38.08	34.77	-88.752	-402.95	1,109.24	945.36	876.87	68.49	13.802	
9,800.00	9,507.11	9,660.00	9,534.17	38.20	34.90	-88.331	-373.86	1,111.28	946.26	877.49	68.77	13.761	
9,850.00	9,549.73	9,713.83	9,576.68	38.31	35.01	-87.909	-340.95	1,113.58	947.36	878.35	69.01	13.728	
9,900.00	9,589.92	9,767.04	9,615.47	38.41	35.11	-87.500	-304.64	1,116.12	948.68	879.45	69.23	13.703	
9,950.00	9,627.36	9,819.63	9,650.33	38.50	35.19	-87.118	-265.39	1,118.86	950.20	880.78	69.42	13.687	
10,000.00	9,661.78	9,871.59	9,681.09	38.58	35.25	-86.776	-223.64	1,121.78	951.92	882.33	69.59	13.678	
10,050.00	9,692.91	9,922.92	9,707.63	38.64	35.30	-86.482	-179.82	1,124.85	953.83	884.09	69.74	13.678	
10,100.00	9,720.50	9,973.64	9,729.90	38.69	35.34	-86.245	-134.38	1,128.03	955.92	886.06	69.86	13.684	
10,150.00	9,744.37	10,023.77	9,747.85	38.73	35.37	-86.070	-87.72	1,131.29	958.17	888.21	69.96	13.696	
10,200.00	9,764.31	10,073.31	9,761.52	38.75	35.39	-85.960	-40.22	1,134.61	960.57	890.53	70.04	13.715	
10,250.00	9,780.18	10,122.31	9,770.94	38.77	35.40	-85.916	7.72	1,137.96	963.09	893.00	70.09	13.740	
10,300.00	9,791.86	10,170.78	9,776.19	38.77	35.40	-85.938	55.78	1,141.32	965.71	895.58	70.13	13.769	
10,350.00	9,799.26	10,205.72	9,777.44	38.77	35.40	-86.793	90.61	1,143.76	968.51	898.33	70.18	13.800	
10,400.00	9,802.33	10,253.04	9,777.69	38.77	35.40	-86.939	137.84	1,146.67	971.62	901.38	70.24	13.834	
10,407.15	9,802.41	10,258.37	9,777.72	38.77	35.40	-87.045	143.15	1,146.95	972.12	901.87	70.25	13.838	
10,500.00	9,802.90	10,327.49	9,778.08	38.76	35.40	-88.428	212.22	1,149.67	978.30	907.86	70.43	13.890	
10,600.00	9,803.42	10,400.00	9,778.46	38.75	35.40	-90.023	284.72	1,150.73	984.09	913.43	70.66	13.928	
10,700.00	9,803.95	10,494.38	9,778.95	38.74	35.42	-90.345	379.10	1,150.25	988.33	917.43	70.90	13.940	
10,774.74	9,804.34	10,569.12	9,779.34	38.72	35.46	-90.345	453.83	1,149.79	989.31	918.20	71.10	13.914	
10,800.00	9,804.47	10,594.37	9,779.48	38.72	35.47	-90.345	479.09	1,149.63	989.31	918.13	71.17	13.900	
10,900.00	9,804.99	10,694.37	9,780.00	38.71	35.56	-90.345	579.09	1,149.02	989.31	917.81	71.49	13.838	
11,000.00	9,805.52	10,794.37	9,780.52	38.70	35.68	-90.345	679.08	1,148.40	989.31	917.46	71.85	13.769	
11,100.00	9,806.04	10,894.37	9,781.05	38.70	35.85	-90.345	779.08	1,147.79	989.31	917.06	72.25	13.693	
11,200.00	9,806.56	10,994.37	9,781.57	38.69	36.06	-90.345	879.08	1,147.17	989.31	916.62	72.69	13.610	
11,300.00	9,807.09	11,094.37	9,782.09	38.70	36.29	-90.345	979.07	1,146.56	989.31	916.14	73.17	13.522	
11,400.00	9,807.61	11,194.37	9,782.62	38.70	36.54	-90.345	1,079.07	1,145.94	989.31	915.63	73.68	13.427	
11,500.00	9,808.13	11,294.37	9,783.14	38.72	36.82	-90.345	1,179.07	1,145.33	989.31	915.08	74.23	13.327	
11,600.00	9,808.66	11,394.37	9,783.66	38.75	37.12	-90.345	1,279.06	1,144.72	989.31	914.49	74.82	13.223	
11,700.00	9,809.18	11,494.37	9,784.19	38.82	37.44	-90.345	1,379.06	1,144.10	989.31	913.87	75.44	13.114	
11,800.00	9,809.71	11,594.37	9,784.71	38.97	37.77	-90.345	1,479.06	1,143.49	989.31	913.21	76.10	13.001	
11,900.00	9,810.23	11,694.37	9,785.23	39.22	38.12	-90.345	1,579.05	1,142.87	989.31	912.52	76.79	12.884	
12,000.00	9,810.75	11,794.37	9,785.76	39.54	38.49	-90.345	1,679.05	1,142.26	989.31	911.80	77.51	12.764	
12,100.00	9,811.28	11,894.37	9,786.28	39.90	38.87	-90.345	1,779.05	1,141.64	989.31	911.04	78.26	12.641	
12,200.00	9,811.80	11,994.37	9,786.81	40.28	39.27	-90.345	1,879.04	1,141.03	989.31	910.26	79.05	12.515	
12,300.00	9,812.32	12,094.37	9,787.33	40.68	39.69	-90.345	1,979.04	1,140.41	989.31	909.44	79.87	12.387	
12,400.00	9,812.85	12,194.37	9,787.85	41.10	40.11	-90.345	2,079.04	1,139.80	989.31	908.60	80.71	12.258	
12,500.00	9,813.37	12,294.37	9,788.38	41.53	40.56	-90.345	2,179.03	1,139.18	989.31	907.73	81.58	12.127	
12,600.00	9,813.89	12,394.37	9,788.90	41.98	41.01	-90.345	2,279.03	1,138.57	989.31	906.83	82.48	11.994	
12,700.00	9,814.42	12,494.37	9,789.42	42.44	41.48	-90.345	2,379.03	1,137.96	989.31	905.90	83.41	11.861	
12,800.00	9,814.94	12,594.37	9,789.95	42.91	41.96	-90.345	2,479.02	1,137.34	989.31	904.95	84.36	11.728	
12,900.00	9,815.47	12,694.37	9,790.47	43.40	42.46	-90.345	2,579.02	1,136.73	989.31	903.98	85.33	11.593	
13,000.00	9,815.99	12,794.37	9,790.99	43.90	42.96	-90.345	2,679.02	1,136.11	989.31	902.98	86.33	11.459	
13,100.00	9,816.51	12,894.37	9,791.52	44.41	43.48	-90.345	2,779.01	1,135.50	989.31	901.95	87.35	11.325	
13,200.00	9,817.04	12,994.37	9,792.04	44.92	44.01	-90.345	2,879.01	1,134.88	989.31	900.91	88.40	11.191	

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 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**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
13,300.00	9,817.56	13,094.37	9,792.57	45.46	44.55	-90.345	2,979.01	1,134.27	989.31	899.84	89.46	11.058	
13,400.00	9,818.08	13,194.37	9,793.09	46.00	45.10	-90.345	3,079.00	1,133.65	989.31	898.76	90.55	10.925	
13,500.00	9,818.61	13,294.37	9,793.61	46.55	45.65	-90.345	3,179.00	1,133.04	989.31	897.65	91.66	10.794	
13,600.00	9,819.13	13,394.37	9,794.14	47.11	46.22	-90.345	3,279.00	1,132.43	989.31	896.53	92.78	10.663	
13,700.00	9,819.65	13,494.37	9,794.66	47.67	46.80	-90.345	3,378.99	1,131.81	989.31	895.38	93.93	10.533	
13,800.00	9,820.18	13,594.37	9,795.18	48.25	47.39	-90.345	3,478.99	1,131.20	989.31	894.22	95.09	10.404	
13,900.00	9,820.70	13,694.37	9,795.71	48.84	47.98	-90.345	3,578.99	1,130.58	989.31	893.04	96.27	10.277	
14,000.00	9,821.23	13,794.37	9,796.23	49.43	48.58	-90.345	3,678.99	1,129.97	989.31	891.85	97.46	10.151	
14,100.00	9,821.75	13,894.37	9,796.75	50.03	49.19	-90.345	3,778.98	1,129.35	989.31	890.64	98.67	10.026	
14,200.00	9,822.27	13,994.37	9,797.28	50.64	49.81	-90.345	3,878.98	1,128.74	989.31	889.41	99.90	9.903	
14,300.00	9,822.80	14,094.37	9,797.80	51.26	50.44	-90.345	3,978.98	1,128.12	989.31	888.17	101.14	9.781	
14,400.00	9,823.32	14,194.37	9,798.32	51.88	51.07	-90.345	4,078.97	1,127.51	989.31	886.91	102.40	9.661	
14,500.00	9,823.84	14,294.37	9,798.85	52.51	51.71	-90.345	4,178.97	1,126.89	989.31	885.64	103.67	9.543	
14,600.00	9,824.37	14,394.37	9,799.37	53.15	52.35	-90.345	4,278.97	1,126.28	989.31	884.36	104.95	9.426	
14,700.00	9,824.89	14,494.37	9,799.90	53.80	53.00	-90.345	4,378.96	1,125.67	989.31	883.06	106.25	9.312	
14,800.00	9,825.41	14,594.37	9,800.42	54.45	53.66	-90.345	4,478.96	1,125.05	989.31	881.76	107.55	9.198	
14,900.00	9,825.94	14,694.37	9,800.94	55.10	54.33	-90.345	4,578.96	1,124.44	989.31	880.44	108.87	9.087	
15,000.00	9,826.46	14,794.37	9,801.47	55.76	55.00	-90.345	4,678.95	1,123.82	989.31	879.11	110.20	8.977	
15,100.00	9,826.98	14,894.37	9,801.99	56.43	55.67	-90.345	4,778.95	1,123.21	989.31	877.76	111.55	8.869	
15,200.00	9,827.51	14,994.37	9,802.51	57.10	56.35	-90.345	4,878.95	1,122.59	989.31	876.41	112.90	8.763	
15,300.00	9,828.03	15,094.37	9,803.04	57.78	57.04	-90.345	4,978.94	1,121.98	989.31	875.05	114.26	8.658	
15,400.00	9,828.56	15,194.37	9,803.56	58.46	57.73	-90.345	5,078.94	1,121.36	989.31	873.68	115.64	8.555	
15,500.00	9,829.08	15,294.37	9,804.08	59.15	58.42	-90.345	5,178.94	1,120.75	989.31	872.29	117.02	8.454	
15,600.00	9,829.60	15,394.37	9,804.61	59.84	59.12	-90.345	5,278.93	1,120.14	989.31	870.90	118.41	8.355	
15,700.00	9,830.13	15,494.37	9,805.13	60.54	59.82	-90.345	5,378.93	1,119.52	989.31	869.50	119.81	8.257	
15,800.00	9,830.65	15,594.37	9,805.65	61.24	60.53	-90.345	5,478.93	1,118.91	989.31	868.09	121.22	8.161	
15,900.00	9,831.17	15,694.37	9,806.18	61.94	61.24	-90.345	5,578.92	1,118.29	989.31	866.67	122.64	8.067	
16,000.00	9,831.70	15,794.37	9,806.70	62.65	61.96	-90.345	5,678.92	1,117.68	989.31	865.25	124.06	7.974	
16,100.00	9,832.22	15,894.37	9,807.23	63.36	62.68	-90.345	5,778.92	1,117.06	989.31	863.82	125.49	7.883	
16,200.00	9,832.74	15,994.37	9,807.75	64.08	63.40	-90.345	5,878.91	1,116.45	989.31	862.38	126.94	7.794	
16,300.00	9,833.27	16,094.37	9,808.27	64.80	64.13	-90.345	5,978.91	1,115.83	989.31	860.93	128.38	7.706	
16,400.00	9,833.79	16,194.37	9,808.80	65.52	64.86	-90.345	6,078.91	1,115.22	989.31	859.47	129.84	7.620	
16,500.00	9,834.32	16,294.37	9,809.32	66.25	65.59	-90.345	6,178.90	1,114.60	989.31	858.01	131.30	7.535	
16,600.00	9,834.84	16,394.37	9,809.84	66.98	66.33	-90.345	6,278.90	1,113.99	989.31	856.54	132.77	7.451	
16,700.00	9,835.36	16,494.37	9,810.37	67.71	67.07	-90.345	6,378.90	1,113.38	989.31	855.07	134.24	7.370	
16,800.00	9,835.89	16,594.37	9,810.89	68.45	67.81	-90.345	6,478.89	1,112.76	989.31	853.59	135.72	7.289	
16,900.00	9,836.41	16,694.37	9,811.41	69.19	68.55	-90.345	6,578.89	1,112.15	989.31	852.10	137.21	7.210	
17,000.00	9,836.93	16,794.37	9,811.94	69.93	69.30	-90.345	6,678.89	1,111.53	989.31	850.61	138.70	7.133	
17,100.00	9,837.46	16,894.37	9,812.46	70.67	70.05	-90.345	6,778.88	1,110.92	989.31	849.11	140.20	7.057	
17,200.00	9,837.98	16,994.37	9,812.98	71.42	70.81	-90.345	6,878.88	1,110.30	989.31	847.61	141.70	6.982	
17,300.00	9,838.50	17,094.37	9,813.51	72.17	71.56	-90.345	6,978.88	1,109.69	989.31	846.10	143.21	6.908	
17,400.00	9,839.03	17,194.37	9,814.03	72.93	72.32	-90.345	7,078.87	1,109.07	989.31	844.59	144.72	6.836	
17,500.00	9,839.55	17,294.37	9,814.56	73.68	73.08	-90.345	7,178.87	1,108.46	989.31	843.07	146.24	6.765	
17,600.00	9,840.07	17,394.37	9,815.08	74.44	73.85	-90.345	7,278.87	1,107.84	989.31	841.55	147.76	6.695	
17,700.00	9,840.60	17,494.37	9,815.60	75.20	74.61	-90.345	7,378.86	1,107.23	989.31	840.02	149.29	6.627	
17,800.00	9,841.12	17,594.37	9,816.13	75.96	75.38	-90.345	7,478.86	1,106.62	989.31	838.49	150.82	6.559	
17,900.00	9,841.65	17,694.37	9,816.65	76.73	76.15	-90.345	7,578.86	1,106.00	989.31	836.95	152.36	6.493	
18,000.00	9,842.17	17,794.37	9,817.17	77.49	76.92	-90.345	7,678.85	1,105.39	989.31	835.41	153.90	6.428	
18,100.00	9,842.69	17,894.37	9,817.70	78.26	77.70	-90.345	7,778.85	1,104.77	989.31	833.87	155.44	6.364	
18,200.00	9,843.22	17,994.37	9,818.22	79.03	78.47	-90.345	7,878.85	1,104.16	989.31	832.32	156.99	6.302	

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 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**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
18,300.00	9,843.74	18,094.37	9,818.74	79.81	79.25	-90.345	7,978.85	1,103.54	989.31	830.77	158.54	6.240	
18,400.00	9,844.26	18,194.37	9,819.27	80.58	80.03	-90.345	8,078.84	1,102.93	989.31	829.22	160.10	6.179	
18,500.00	9,844.79	18,294.37	9,819.79	81.36	80.81	-90.345	8,178.84	1,102.31	989.31	827.66	161.66	6.120	
18,600.00	9,845.31	18,394.37	9,820.31	82.13	81.60	-90.345	8,278.84	1,101.70	989.31	826.09	163.22	6.061	
18,700.00	9,845.83	18,494.37	9,820.84	82.91	82.38	-90.345	8,378.83	1,101.09	989.31	824.53	164.79	6.004	
18,800.00	9,846.36	18,594.37	9,821.36	83.70	83.17	-90.345	8,478.83	1,100.47	989.31	822.96	166.36	5.947	
18,900.00	9,846.88	18,694.37	9,821.89	84.48	83.95	-90.345	8,578.83	1,099.86	989.31	821.39	167.93	5.891	
19,000.00	9,847.41	18,794.37	9,822.41	85.27	84.74	-90.345	8,678.82	1,099.24	989.31	819.81	169.50	5.836	
19,100.00	9,847.93	18,894.37	9,822.93	86.05	85.54	-90.345	8,778.82	1,098.63	989.31	818.23	171.08	5.783	
19,200.00	9,848.45	18,994.37	9,823.46	86.84	86.33	-90.345	8,878.82	1,098.01	989.31	816.65	172.67	5.730	
19,300.00	9,848.98	19,094.37	9,823.98	87.63	87.12	-90.345	8,978.81	1,097.40	989.31	815.06	174.25	5.678	
19,400.00	9,849.50	19,194.37	9,824.50	88.42	87.92	-90.345	9,078.81	1,096.78	989.31	813.48	175.84	5.626	
19,500.00	9,850.02	19,294.37	9,825.03	89.21	88.71	-90.345	9,178.81	1,096.17	989.31	811.89	177.43	5.576	
19,600.00	9,850.55	19,394.37	9,825.55	90.01	89.51	-90.345	9,278.80	1,095.55	989.31	810.29	179.02	5.526	
19,700.00	9,851.07	19,494.37	9,826.07	90.80	90.31	-90.345	9,378.80	1,094.94	989.31	808.70	180.62	5.477	
19,800.00	9,851.59	19,594.37	9,826.60	91.60	91.11	-90.345	9,478.80	1,094.33	989.32	807.10	182.21	5.429	
19,900.00	9,852.12	19,694.37	9,827.12	92.39	91.91	-90.345	9,578.79	1,093.71	989.32	805.50	183.81	5.382	
20,000.00	9,852.64	19,794.37	9,827.64	93.19	92.72	-90.345	9,678.79	1,093.10	989.32	803.90	185.42	5.336	
20,100.00	9,853.16	19,894.37	9,828.17	93.99	93.52	-90.345	9,778.79	1,092.48	989.32	802.29	187.02	5.290	
20,200.00	9,853.69	19,994.37	9,828.69	94.79	94.32	-90.345	9,878.78	1,091.87	989.32	800.69	188.63	5.245	
20,300.00	9,854.21	20,094.37	9,829.22	95.60	95.13	-90.345	9,978.78	1,091.25	989.32	799.08	190.24	5.200	
20,305.24	9,854.24	20,099.61	9,829.24	95.64	95.17	-90.345	9,984.02	1,091.22	989.32	798.99	190.32	5.198	
20,355.05	9,854.50	20,146.86	9,829.49	96.04	95.55	-90.493	10,031.26	1,090.93	989.32	798.23	191.09	5.177	

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 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**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

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	-88.821	25.00	-1,214.34	1,214.60				
100.00	100.00	98.00	98.00	0.26	0.26	-88.821	25.00	-1,214.34	1,214.60	1,214.08	0.52	2,328.223	
200.00	200.00	198.00	198.00	0.62	0.61	-88.821	25.00	-1,214.34	1,214.60	1,213.36	1.24	982.106	
300.00	300.00	298.00	298.00	0.98	0.97	-88.821	25.00	-1,214.34	1,214.60	1,212.64	1.95	621.700	
400.00	400.00	398.00	398.00	1.34	1.33	-88.821	25.00	-1,214.34	1,214.60	1,211.93	2.67	454.801	
500.00	500.00	498.00	498.00	1.70	1.69	-88.821	25.00	-1,214.34	1,214.60	1,211.21	3.39	358.547	CC
600.00	599.99	597.99	597.99	2.04	2.05	-88.795	25.00	-1,214.34	1,215.28	1,211.19	4.09	297.096	ES
700.00	699.96	697.96	697.96	2.38	2.41	-88.718	25.00	-1,214.34	1,217.32	1,212.53	4.79	254.355	
800.00	799.86	797.86	797.86	2.72	2.77	-88.590	25.00	-1,214.34	1,220.73	1,215.24	5.49	222.479	
900.00	899.66	874.97	874.96	3.07	3.03	-88.443	24.77	-1,215.04	1,227.03	1,220.92	6.10	201.034	
1,000.00	999.27	951.19	951.15	3.42	3.29	-88.311	24.08	-1,217.19	1,237.81	1,231.09	6.72	184.314	
1,100.00	1,098.63	1,026.79	1,026.66	3.78	3.55	-88.193	22.92	-1,220.74	1,253.03	1,245.71	7.32	171.097	
1,200.00	1,197.67	1,100.00	1,099.69	4.14	3.80	-88.089	21.36	-1,225.54	1,272.65	1,264.73	7.92	160.666	
1,300.00	1,296.32	1,175.33	1,174.72	4.51	4.07	-88.003	19.31	-1,231.86	1,296.60	1,288.07	8.52	152.111	
1,400.00	1,394.52	1,247.86	1,246.84	4.87	4.32	-87.929	16.90	-1,239.28	1,324.80	1,315.69	9.11	145.395	
1,500.00	1,492.20	1,319.00	1,317.40	5.25	4.57	-87.866	14.12	-1,247.82	1,357.18	1,347.49	9.69	140.084	
1,600.00	1,589.28	1,400.00	1,397.54	5.63	4.86	-87.838	10.47	-1,259.07	1,393.69	1,383.38	10.30	135.288	
1,691.85	1,677.88	1,450.97	1,447.82	5.98	5.04	-87.772	7.90	-1,266.97	1,430.60	1,419.84	10.76	132.995	
1,700.00	1,685.72	1,456.44	1,453.21	6.01	5.06	-87.768	7.61	-1,267.85	1,434.03	1,423.23	10.80	132.726	
1,800.00	1,781.86	1,522.94	1,518.63	6.40	5.30	-87.736	3.92	-1,279.21	1,476.94	1,465.60	11.34	130.292	
1,900.00	1,878.00	1,600.00	1,594.16	6.79	5.58	-87.749	-0.79	-1,293.72	1,521.37	1,509.46	11.91	127.695	
2,000.00	1,974.14	1,652.79	1,645.72	7.18	5.78	-87.711	-4.30	-1,304.50	1,567.11	1,554.74	12.37	126.682	
2,100.00	2,070.27	1,716.12	1,707.36	7.58	6.01	-87.715	-8.79	-1,318.32	1,614.31	1,601.43	12.87	125.387	
2,200.00	2,166.41	1,778.36	1,767.70	7.98	6.25	-87.728	-13.51	-1,332.85	1,662.86	1,649.49	13.37	124.375	
2,300.00	2,262.55	1,856.23	1,842.93	8.38	6.54	-87.798	-19.72	-1,351.96	1,712.47	1,698.52	13.95	122.775	
2,400.00	2,358.69	1,942.96	1,926.71	8.78	6.87	-87.891	-26.65	-1,373.31	1,762.17	1,747.59	14.58	120.886	
2,500.00	2,454.83	2,029.70	2,010.49	9.18	7.21	-87.980	-33.59	-1,394.66	1,811.87	1,796.66	15.21	119.136	
2,600.00	2,550.97	2,116.43	2,094.27	9.59	7.54	-88.063	-40.53	-1,416.01	1,861.57	1,845.73	15.84	117.511	
2,700.00	2,647.11	2,203.17	2,178.04	9.99	7.88	-88.142	-47.46	-1,437.36	1,911.28	1,894.80	16.48	115.998	
2,800.00	2,743.25	2,289.90	2,261.82	10.40	8.22	-88.218	-54.40	-1,458.71	1,960.99	1,943.87	17.11	114.586	
2,900.00	2,839.39	2,376.63	2,345.60	10.81	8.56	-88.289	-61.34	-1,480.06	2,010.70	1,992.95	17.75	113.267	
3,000.00	2,935.53	2,463.37	2,429.38	11.22	8.90	-88.357	-68.28	-1,501.41	2,060.41	2,042.02	18.39	112.031	
3,100.00	3,031.67	2,550.10	2,513.16	11.62	9.24	-88.422	-75.21	-1,522.76	2,110.13	2,091.10	19.03	110.871	
3,200.00	3,127.81	2,636.84	2,596.94	12.03	9.59	-88.484	-82.15	-1,544.11	2,159.85	2,140.18	19.67	109.780	
3,300.00	3,223.95	2,723.57	2,680.72	12.44	9.93	-88.543	-89.09	-1,565.46	2,209.58	2,189.26	20.32	108.754	
3,400.00	3,320.09	2,810.30	2,764.49	12.85	10.28	-88.599	-96.02	-1,586.81	2,259.30	2,238.34	20.96	107.785	
3,500.00	3,416.23	2,897.04	2,848.27	13.26	10.63	-88.653	-102.96	-1,608.16	2,309.03	2,287.42	21.61	106.870	
3,600.00	3,512.37	2,983.77	2,932.05	13.67	10.97	-88.705	-109.90	-1,629.51	2,358.76	2,336.51	22.25	106.004	
3,700.00	3,608.51	3,070.51	3,015.83	14.08	11.32	-88.755	-116.83	-1,650.86	2,408.49	2,385.59	22.90	105.183	
3,800.00	3,704.65	3,157.24	3,099.61	14.49	11.67	-88.802	-123.77	-1,672.21	2,458.22	2,434.68	23.55	104.404	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 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**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
0.00	0.00	0.00	0.00	0.00	0.00	-88.796	25.00	-1,189.34	1,189.60				
100.00	100.00	98.00	98.00	0.26	0.26	-88.796	25.00	-1,189.34	1,189.60	1,189.08	0.52	2,280.312	
200.00	200.00	198.00	198.00	0.62	0.61	-88.796	25.00	-1,189.34	1,189.60	1,188.37	1.24	961.896	
300.00	300.00	298.00	298.00	0.98	0.97	-88.796	25.00	-1,189.34	1,189.60	1,187.65	1.95	608.907	
400.00	400.00	398.00	398.00	1.34	1.33	-88.796	25.00	-1,189.34	1,189.60	1,186.93	2.67	445.442	
500.00	500.00	498.00	498.00	1.70	1.69	-88.796	25.00	-1,189.34	1,189.60	1,186.22	3.39	351.168	CC
600.00	599.99	597.99	597.99	2.04	2.05	-88.769	25.00	-1,189.34	1,190.28	1,186.19	4.09	290.985	ES
700.00	699.96	697.96	697.96	2.38	2.41	-88.691	25.00	-1,189.34	1,192.33	1,187.54	4.79	249.133	
800.00	799.86	797.86	797.86	2.72	2.77	-88.560	25.00	-1,189.34	1,195.73	1,190.25	5.49	217.925	
900.00	899.66	897.66	897.66	3.07	3.12	-88.399	25.00	-1,189.34	1,201.13	1,194.94	6.19	193.953	
1,000.00	999.27	997.27	997.27	3.42	3.48	-88.228	25.00	-1,189.34	1,209.14	1,202.24	6.90	175.172	
1,100.00	1,098.63	1,096.63	1,096.63	3.78	3.84	-88.049	25.00	-1,189.34	1,219.76	1,212.15	7.61	160.217	
1,200.00	1,197.67	1,195.67	1,195.67	4.14	4.19	-87.864	25.00	-1,189.34	1,232.98	1,224.65	8.32	148.137	
1,300.00	1,296.32	1,294.32	1,294.32	4.51	4.54	-87.674	25.00	-1,189.34	1,248.79	1,239.76	9.03	138.266	
1,400.00	1,394.52	1,392.52	1,392.52	4.87	4.90	-87.481	25.00	-1,189.34	1,267.19	1,257.45	9.74	130.125	
1,500.00	1,492.20	1,490.20	1,490.20	5.25	5.25	-87.285	25.00	-1,189.34	1,288.16	1,277.72	10.44	123.366	
1,600.00	1,589.28	1,589.81	1,589.80	5.63	5.59	-87.119	24.30	-1,189.29	1,311.61	1,300.47	11.13	117.793	
1,691.85	1,677.88	1,681.16	1,681.13	5.98	5.89	-87.031	22.14	-1,189.13	1,335.20	1,323.45	11.76	113.575	
1,700.00	1,685.72	1,689.24	1,689.21	6.01	5.91	-87.026	21.88	-1,189.11	1,337.38	1,325.57	11.81	113.210	
1,800.00	1,781.86	1,788.55	1,788.43	6.40	6.24	-87.005	17.75	-1,188.81	1,364.01	1,351.53	12.48	109.256	
1,900.00	1,878.00	1,887.96	1,887.67	6.79	6.57	-87.056	11.90	-1,188.39	1,390.43	1,377.27	13.16	105.645	
2,000.00	1,974.14	1,987.43	1,986.84	7.18	6.90	-87.174	4.33	-1,187.84	1,416.65	1,402.81	13.84	102.337	
2,100.00	2,070.27	2,086.88	2,085.86	7.58	7.24	-87.355	-4.95	-1,187.16	1,442.67	1,428.14	14.53	99.296	
2,200.00	2,166.41	2,183.73	2,182.17	7.98	7.56	-87.561	-15.04	-1,186.42	1,468.58	1,453.37	15.21	96.558	
2,300.00	2,262.55	2,280.17	2,278.09	8.38	7.89	-87.759	-25.09	-1,185.69	1,494.51	1,478.62	15.89	94.044	
2,400.00	2,358.69	2,376.61	2,374.00	8.78	8.22	-87.950	-35.15	-1,184.96	1,520.46	1,503.88	16.58	91.721	
2,500.00	2,454.83	2,473.06	2,469.91	9.18	8.56	-88.135	-45.21	-1,184.23	1,546.42	1,529.16	17.27	89.569	
2,600.00	2,550.97	2,569.50	2,565.83	9.59	8.89	-88.314	-55.27	-1,183.49	1,572.40	1,554.45	17.96	87.571	
2,700.00	2,647.11	2,665.94	2,661.74	9.99	9.23	-88.486	-65.32	-1,182.76	1,598.39	1,579.75	18.65	85.711	
2,800.00	2,743.25	2,762.38	2,757.66	10.40	9.57	-88.654	-75.38	-1,182.03	1,624.40	1,605.06	19.34	83.977	
2,900.00	2,839.39	2,858.83	2,853.57	10.81	9.91	-88.816	-85.44	-1,181.30	1,650.42	1,630.38	20.04	82.357	
3,000.00	2,935.53	2,955.27	2,949.49	11.22	10.25	-88.973	-95.50	-1,180.56	1,676.46	1,655.72	20.74	80.840	
3,100.00	3,031.67	3,051.71	3,045.40	11.62	10.59	-89.125	-105.55	-1,179.83	1,702.50	1,681.07	21.44	79.416	
3,200.00	3,127.81	3,148.16	3,141.31	12.03	10.93	-89.272	-115.61	-1,179.10	1,728.56	1,706.42	22.14	78.079	
3,300.00	3,223.95	3,244.60	3,237.23	12.44	11.28	-89.416	-125.67	-1,178.37	1,754.63	1,731.79	22.84	76.819	
3,400.00	3,320.09	3,341.04	3,333.14	12.85	11.62	-89.555	-135.72	-1,177.63	1,780.71	1,757.17	23.54	75.632	
3,500.00	3,416.23	3,437.48	3,429.06	13.26	11.97	-89.690	-145.78	-1,176.90	1,806.80	1,782.55	24.25	74.511	
3,600.00	3,512.37	3,533.93	3,524.97	13.67	12.31	-89.821	-155.84	-1,176.17	1,832.90	1,807.95	24.95	73.450	
3,700.00	3,608.51	3,630.37	3,620.88	14.08	12.66	-89.948	-165.90	-1,175.44	1,859.01	1,833.35	25.66	72.446	
3,800.00	3,704.65	3,726.81	3,716.80	14.49	13.01	-90.072	-175.95	-1,174.70	1,885.13	1,858.77	26.37	71.493	
3,900.00	3,800.79	3,823.26	3,812.71	14.91	13.35	-90.193	-186.01	-1,173.97	1,911.26	1,884.19	27.08	70.589	
4,000.00	3,896.93	3,919.70	3,908.63	15.32	13.70	-90.310	-196.07	-1,173.24	1,937.40	1,909.61	27.78	69.729	
4,100.00	3,993.07	4,016.14	4,004.54	15.73	14.05	-90.424	-206.13	-1,172.51	1,963.54	1,935.05	28.49	68.910	
4,200.00	4,089.21	4,112.58	4,100.46	16.14	14.40	-90.535	-216.18	-1,171.77	1,989.69	1,960.49	29.20	68.130	
4,300.00	4,185.35	4,209.03	4,196.37	16.55	14.75	-90.643	-226.24	-1,171.04	2,015.85	1,985.94	29.91	67.386	
4,400.00	4,281.49	4,305.47	4,292.28	16.97	15.10	-90.749	-236.30	-1,170.31	2,042.02	2,011.39	30.63	66.676	
4,500.00	4,377.63	4,401.91	4,388.20	17.38	15.45	-90.852	-246.36	-1,169.58	2,068.19	2,036.85	31.34	65.996	
4,600.00	4,473.77	4,498.36	4,484.11	17.79	15.80	-90.952	-256.41	-1,168.84	2,094.37	2,062.32	32.05	65.346	
4,700.00	4,569.91	4,594.80	4,580.03	18.21	16.15	-91.050	-266.47	-1,168.11	2,120.56	2,087.79	32.76	64.724	
4,800.00	4,666.05	4,691.24	4,675.94	18.62	16.50	-91.145	-276.53	-1,167.38	2,146.75	2,113.27	33.48	64.127	

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 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**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

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
4,900.00	4,762.19	4,787.68	4,771.86	19.03	16.85	-91.238	-286.59	-1,166.65	2,172.95	2,138.76	34.19	63.555	
5,000.00	4,858.33	4,884.13	4,867.77	19.45	17.20	-91.329	-296.64	-1,165.91	2,199.15	2,164.25	34.90	63.005	
5,100.00	4,954.47	4,980.57	4,963.68	19.86	17.55	-91.418	-306.70	-1,165.18	2,225.36	2,189.74	35.62	62.477	
5,200.00	5,050.61	5,077.01	5,059.60	20.27	17.90	-91.505	-316.76	-1,164.45	2,251.57	2,215.24	36.33	61.969	
5,300.00	5,146.75	5,173.46	5,155.51	20.69	18.25	-91.589	-326.82	-1,163.72	2,277.79	2,240.74	37.05	61.480	
5,400.00	5,242.89	5,269.90	5,251.43	21.10	18.61	-91.672	-336.87	-1,162.98	2,304.02	2,266.25	37.77	61.009	
5,500.00	5,339.03	5,366.34	5,347.34	21.52	18.96	-91.753	-346.93	-1,162.25	2,330.25	2,291.76	38.48	60.555	
5,600.00	5,435.17	5,462.78	5,443.25	21.93	19.31	-91.832	-356.99	-1,161.52	2,356.48	2,317.28	39.20	60.118	
5,700.00	5,531.31	5,559.23	5,539.17	22.34	19.66	-91.909	-367.05	-1,160.79	2,382.72	2,342.80	39.91	59.696	
5,800.00	5,627.45	5,655.67	5,635.08	22.76	20.01	-91.985	-377.10	-1,160.05	2,408.96	2,368.33	40.63	59.288	
5,900.00	5,723.59	5,752.11	5,731.00	23.17	20.37	-92.059	-387.16	-1,159.32	2,435.21	2,393.86	41.35	58.894	
6,000.00	5,819.73	5,848.56	5,826.91	23.59	20.72	-92.132	-397.22	-1,158.59	2,461.46	2,419.39	42.07	58.513	
6,100.00	5,915.87	5,945.00	5,922.83	24.00	21.07	-92.202	-407.28	-1,157.86	2,487.71	2,444.93	42.78	58.145	SF

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**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	-90.000	0.00	-1,214.34	1,214.34				
100.00	100.00	98.00	98.00	0.26	0.26	-90.000	0.00	-1,214.34	1,214.34	1,213.82	0.52	2,327.730	
200.00	200.00	198.00	198.00	0.62	0.61	-90.000	0.00	-1,214.34	1,214.34	1,213.10	1.24	981.898	
300.00	300.00	298.00	298.00	0.98	0.97	-90.000	0.00	-1,214.34	1,214.34	1,212.39	1.95	621.569	
400.00	400.00	398.00	398.00	1.34	1.33	-90.000	0.00	-1,214.34	1,214.34	1,211.67	2.67	454.705	
500.00	500.00	498.00	498.00	1.70	1.69	-90.000	0.00	-1,214.34	1,214.34	1,210.95	3.39	358.471 CC	
600.00	599.99	597.99	597.99	2.04	2.05	-89.974	0.00	-1,214.34	1,215.01	1,210.92	4.09	297.030 ES	
700.00	699.96	697.96	697.96	2.38	2.41	-89.894	0.00	-1,214.34	1,217.02	1,212.23	4.79	254.293	
800.00	799.86	797.86	797.86	2.72	2.77	-89.763	0.00	-1,214.34	1,220.37	1,214.88	5.49	222.414	
900.00	899.66	909.41	909.40	3.07	3.15	-89.642	-0.91	-1,213.82	1,225.22	1,219.01	6.22	197.135	
1,000.00	999.27	1,021.23	1,021.18	3.42	3.52	-89.596	-3.71	-1,212.22	1,231.71	1,224.77	6.94	177.557	
1,100.00	1,098.63	1,133.02	1,132.84	3.78	3.89	-89.625	-8.40	-1,209.54	1,239.80	1,232.14	7.67	161.722	
1,200.00	1,197.67	1,244.72	1,244.28	4.14	4.28	-89.726	-14.98	-1,205.78	1,249.52	1,241.12	8.40	148.737	
1,300.00	1,296.32	1,356.27	1,355.40	4.51	4.66	-89.897	-23.42	-1,200.95	1,260.85	1,251.71	9.14	137.963	
1,400.00	1,394.52	1,456.84	1,455.47	4.87	5.01	-90.062	-32.08	-1,195.99	1,274.18	1,264.33	9.85	129.419	
1,500.00	1,492.20	1,555.52	1,553.66	5.25	5.36	-90.203	-40.59	-1,191.13	1,290.07	1,279.52	10.55	122.305	
1,600.00	1,589.28	1,653.75	1,651.41	5.63	5.71	-90.326	-49.06	-1,186.28	1,308.54	1,297.29	11.25	116.309	
1,691.85	1,677.88	1,743.54	1,740.76	5.98	6.02	-90.423	-56.81	-1,181.86	1,327.74	1,315.85	11.90	111.621	
1,700.00	1,685.72	1,751.49	1,748.66	6.01	6.05	-90.431	-57.49	-1,181.46	1,329.54	1,317.59	11.95	111.221	
1,800.00	1,781.86	1,849.00	1,845.69	6.40	6.40	-90.526	-65.90	-1,176.65	1,351.62	1,338.97	12.65	106.833	
1,900.00	1,878.00	1,946.50	1,942.71	6.79	6.75	-90.618	-74.31	-1,171.85	1,373.71	1,360.36	13.35	102.883	
2,000.00	1,974.14	2,044.01	2,039.74	7.18	7.10	-90.707	-82.72	-1,167.04	1,395.80	1,381.74	14.05	99.310	
2,100.00	2,070.27	2,141.52	2,136.76	7.58	7.45	-90.793	-91.13	-1,162.23	1,417.89	1,403.13	14.76	96.064	
2,200.00	2,166.41	2,239.02	2,233.78	7.98	7.80	-90.877	-99.53	-1,157.42	1,439.98	1,424.52	15.47	93.104	
2,300.00	2,262.55	2,336.53	2,330.81	8.38	8.15	-90.958	-107.94	-1,152.61	1,462.08	1,445.91	16.17	90.393	
2,400.00	2,358.69	2,434.03	2,427.83	8.78	8.51	-91.037	-116.35	-1,147.80	1,484.18	1,467.30	16.88	87.903	
2,500.00	2,454.83	2,531.54	2,524.85	9.18	8.86	-91.113	-124.76	-1,142.99	1,506.28	1,488.69	17.60	85.608	
2,600.00	2,550.97	2,629.05	2,621.88	9.59	9.21	-91.187	-133.17	-1,138.19	1,528.39	1,510.08	18.31	83.486	
2,700.00	2,647.11	2,726.55	2,718.90	9.99	9.57	-91.259	-141.58	-1,133.38	1,550.50	1,531.48	19.02	81.519	
2,800.00	2,743.25	2,824.06	2,815.93	10.40	9.92	-91.329	-149.99	-1,128.57	1,572.61	1,552.87	19.73	79.691	
2,900.00	2,839.39	2,921.57	2,912.95	10.81	10.28	-91.397	-158.40	-1,123.76	1,594.72	1,574.27	20.45	77.987	
3,000.00	2,935.53	3,019.07	3,009.97	11.22	10.63	-91.464	-166.80	-1,118.95	1,616.83	1,595.67	21.16	76.396	
3,100.00	3,031.67	3,116.58	3,107.00	11.62	10.99	-91.528	-175.21	-1,114.14	1,638.95	1,617.07	21.88	74.907	
3,200.00	3,127.81	3,214.08	3,204.02	12.03	11.34	-91.591	-183.62	-1,109.33	1,661.07	1,638.47	22.60	73.511	
3,300.00	3,223.95	3,311.59	3,301.05	12.44	11.70	-91.652	-192.03	-1,104.53	1,683.19	1,659.88	23.31	72.198	
3,400.00	3,320.09	3,409.10	3,398.07	12.85	12.05	-91.711	-200.44	-1,099.72	1,705.31	1,681.28	24.03	70.962	
3,500.00	3,416.23	3,506.60	3,495.09	13.26	12.41	-91.769	-208.85	-1,094.91	1,727.44	1,702.69	24.75	69.797	
3,600.00	3,512.37	3,604.11	3,592.12	13.67	12.76	-91.826	-217.26	-1,090.10	1,749.57	1,724.10	25.47	68.696	
3,700.00	3,608.51	3,701.62	3,689.14	14.08	13.12	-91.881	-225.67	-1,085.29	1,771.69	1,745.51	26.19	67.655	
3,800.00	3,704.65	3,799.12	3,786.17	14.49	13.48	-91.935	-234.07	-1,080.48	1,793.82	1,766.92	26.91	66.669	
3,900.00	3,800.79	3,896.63	3,883.19	14.91	13.83	-91.987	-242.48	-1,075.67	1,815.95	1,788.33	27.63	65.733	
4,000.00	3,896.93	3,994.13	3,980.21	15.32	14.19	-92.038	-250.89	-1,070.86	1,838.09	1,809.74	28.35	64.844	
4,100.00	3,993.07	4,091.64	4,077.24	15.73	14.55	-92.088	-259.30	-1,066.06	1,860.22	1,831.15	29.07	63.998	
4,200.00	4,089.21	4,189.15	4,174.26	16.14	14.90	-92.137	-267.71	-1,061.25	1,882.36	1,852.57	29.79	63.192	
4,300.00	4,185.35	4,286.65	4,271.29	16.55	15.26	-92.184	-276.12	-1,056.44	1,904.49	1,873.99	30.51	62.425	
4,400.00	4,281.49	4,384.16	4,368.31	16.97	15.62	-92.231	-284.53	-1,051.63	1,926.63	1,895.40	31.23	61.692	
4,500.00	4,377.63	4,481.67	4,465.33	17.38	15.98	-92.276	-292.94	-1,046.82	1,948.77	1,916.82	31.95	60.991	
4,600.00	4,473.77	4,579.17	4,562.36	17.79	16.33	-92.321	-301.34	-1,042.01	1,970.91	1,938.24	32.67	60.321	
4,700.00	4,569.91	4,676.68	4,659.38	18.21	16.69	-92.364	-309.75	-1,037.20	1,993.05	1,959.66	33.40	59.680	
4,800.00	4,666.05	4,774.18	4,756.40	18.62	17.05	-92.407	-318.16	-1,032.40	2,015.20	1,981.08	34.12	59.066	

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 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**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
4,900.00	4,762.19	4,871.69	4,853.43	19.03	17.40	-92.448	-326.57	-1,027.59	2,037.34	2,002.50	34.84	58.476	
5,000.00	4,858.33	4,969.20	4,950.45	19.45	17.76	-92.489	-334.98	-1,022.78	2,059.49	2,023.92	35.56	57.911	
5,100.00	4,954.47	5,066.70	5,047.48	19.86	18.12	-92.529	-343.39	-1,017.97	2,081.63	2,045.35	36.29	57.367	
5,200.00	5,050.61	5,164.21	5,144.50	20.27	18.48	-92.568	-351.80	-1,013.16	2,103.78	2,066.77	37.01	56.845	
5,300.00	5,146.75	5,261.72	5,241.52	20.69	18.84	-92.606	-360.21	-1,008.35	2,125.93	2,088.19	37.73	56.342	
5,400.00	5,242.89	5,359.22	5,338.55	21.10	19.19	-92.643	-368.61	-1,003.54	2,148.08	2,109.62	38.46	55.858	
5,500.00	5,339.03	5,456.73	5,435.57	21.52	19.55	-92.680	-377.02	-998.74	2,170.23	2,131.05	39.18	55.392	
5,600.00	5,435.17	5,554.23	5,532.60	21.93	19.91	-92.716	-385.43	-993.93	2,192.38	2,152.47	39.90	54.942	
5,700.00	5,531.31	5,651.74	5,629.62	22.34	20.27	-92.751	-393.84	-989.12	2,214.53	2,173.90	40.63	54.508	
5,800.00	5,627.45	5,749.25	5,726.64	22.76	20.62	-92.786	-402.25	-984.31	2,236.68	2,195.33	41.35	54.089	
5,900.00	5,723.59	5,846.75	5,823.67	23.17	20.98	-92.819	-410.66	-979.50	2,258.83	2,216.76	42.08	53.685	
6,000.00	5,819.73	5,944.26	5,920.69	23.59	21.34	-92.853	-419.07	-974.69	2,280.99	2,238.19	42.80	53.294	
6,100.00	5,915.87	6,041.77	6,017.72	24.00	21.70	-92.885	-427.47	-969.88	2,303.14	2,259.62	43.53	52.915	
6,200.00	6,012.01	6,139.27	6,114.74	24.42	22.06	-92.917	-435.88	-965.07	2,325.30	2,281.05	44.25	52.549	
6,300.00	6,108.15	6,236.78	6,211.76	24.83	22.41	-92.948	-444.29	-960.27	2,347.45	2,302.48	44.97	52.195	
6,400.00	6,204.28	6,334.28	6,308.79	25.25	22.77	-92.979	-452.70	-955.46	2,369.61	2,323.91	45.70	51.852	
6,500.00	6,300.42	6,431.79	6,405.81	25.66	23.13	-93.009	-461.11	-950.65	2,391.77	2,345.34	46.42	51.519	
6,600.00	6,396.56	6,517.73	6,491.35	26.08	23.44	-93.007	-468.24	-946.57	2,414.10	2,367.01	47.09	51.265	
6,700.00	6,492.70	6,600.00	6,573.35	26.49	23.75	-92.974	-474.07	-943.24	2,437.04	2,389.31	47.73	51.055	
6,800.00	6,588.84	6,680.87	6,654.04	26.91	24.04	-92.915	-478.80	-940.53	2,460.61	2,412.24	48.37	50.876	
6,900.00	6,684.98	6,762.01	6,735.06	27.32	24.33	-92.835	-482.56	-938.38	2,484.80	2,435.80	48.99	50.716	SF

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**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)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.000	0.00	-1,189.34	1,189.34				
100.00	100.00	98.00	98.00	0.26	0.26	-90.000	0.00	-1,189.34	1,189.34	1,188.82	0.52	2,279.808	
200.00	200.00	198.00	198.00	0.62	0.61	-90.000	0.00	-1,189.34	1,189.34	1,188.10	1.24	961.683	
300.00	300.00	298.00	298.00	0.98	0.97	-90.000	0.00	-1,189.34	1,189.34	1,187.39	1.95	608.772	
400.00	400.00	398.00	398.00	1.34	1.33	-90.000	0.00	-1,189.34	1,189.34	1,186.67	2.67	445.343	
500.00	500.00	498.00	498.00	1.70	1.69	-90.000	0.00	-1,189.34	1,189.34	1,185.95	3.39	351.091 CC	
600.00	599.99	597.99	597.99	2.04	2.05	-89.973	0.00	-1,189.34	1,190.01	1,185.92	4.09	290.919 ES	
700.00	699.96	697.96	697.96	2.38	2.41	-89.892	0.00	-1,189.34	1,192.02	1,187.23	4.79	249.069	
800.00	799.86	797.86	797.86	2.72	2.77	-89.758	0.00	-1,189.34	1,195.37	1,189.88	5.49	217.858	
900.00	899.66	897.66	897.66	3.07	3.12	-89.591	0.00	-1,189.34	1,200.69	1,194.50	6.19	193.882	
1,000.00	999.27	997.27	997.27	3.42	3.48	-89.413	0.00	-1,189.34	1,208.63	1,201.72	6.90	175.096	
1,100.00	1,098.63	1,096.63	1,096.63	3.78	3.84	-89.224	0.00	-1,189.34	1,219.16	1,211.55	7.61	160.136	
1,200.00	1,197.67	1,195.67	1,195.67	4.14	4.19	-89.026	0.00	-1,189.34	1,232.30	1,223.98	8.32	148.050	
1,300.00	1,296.32	1,280.97	1,280.96	4.51	4.49	-88.838	-0.36	-1,189.78	1,248.53	1,239.56	8.97	139.157	
1,400.00	1,394.52	1,364.96	1,364.93	4.87	4.77	-88.681	-1.51	-1,191.17	1,268.43	1,258.82	9.61	132.052	
1,500.00	1,492.20	1,448.09	1,448.02	5.25	5.05	-88.554	-3.42	-1,193.48	1,291.95	1,281.72	10.23	126.263	
1,600.00	1,589.28	1,530.23	1,530.04	5.63	5.32	-88.454	-6.07	-1,196.67	1,319.05	1,308.20	10.85	121.531	
1,691.85	1,677.88	1,600.00	1,599.68	5.98	5.56	-88.376	-8.90	-1,200.09	1,347.06	1,335.66	11.40	118.159	
1,700.00	1,685.72	1,611.21	1,610.86	6.01	5.60	-88.380	-9.41	-1,200.70	1,349.66	1,338.19	11.47	117.656	
1,800.00	1,781.86	1,691.35	1,690.75	6.40	5.87	-88.335	-13.43	-1,205.56	1,382.32	1,370.25	12.07	114.483	
1,900.00	1,878.00	1,770.89	1,769.95	6.79	6.15	-88.320	-18.12	-1,211.23	1,415.98	1,403.30	12.68	111.713	
2,000.00	1,974.14	1,849.83	1,848.43	7.18	6.42	-88.333	-23.48	-1,217.69	1,450.61	1,437.33	13.27	109.288	
2,100.00	2,070.27	1,928.12	1,926.16	7.58	6.69	-88.371	-29.46	-1,224.93	1,486.21	1,472.34	13.87	107.171	
2,200.00	2,166.41	2,007.62	2,004.95	7.98	6.97	-88.438	-36.23	-1,233.10	1,522.76	1,508.29	14.47	105.257	
2,300.00	2,262.55	2,100.49	2,096.93	8.38	7.30	-88.556	-44.44	-1,243.02	1,559.69	1,544.56	15.13	103.079	
2,400.00	2,358.69	2,193.37	2,188.91	8.78	7.63	-88.669	-52.65	-1,252.93	1,596.63	1,580.83	15.80	101.069	
2,500.00	2,454.83	2,286.25	2,280.89	9.18	7.96	-88.777	-60.85	-1,262.84	1,633.57	1,617.10	16.47	99.208	
2,600.00	2,550.97	2,379.12	2,372.87	9.59	8.29	-88.880	-69.06	-1,272.76	1,670.52	1,653.38	17.14	97.481	
2,700.00	2,647.11	2,472.00	2,464.85	9.99	8.63	-88.978	-77.27	-1,282.67	1,707.47	1,689.66	17.81	95.876	
2,800.00	2,743.25	2,564.88	2,556.83	10.40	8.96	-89.073	-85.48	-1,292.58	1,744.43	1,725.94	18.48	94.379	
2,900.00	2,839.39	2,657.75	2,648.81	10.81	9.30	-89.163	-93.68	-1,302.49	1,781.39	1,762.23	19.16	92.981	
3,000.00	2,935.53	2,750.63	2,740.79	11.22	9.64	-89.250	-101.89	-1,312.41	1,818.36	1,798.52	19.84	91.673	
3,100.00	3,031.67	2,843.51	2,832.77	11.62	9.97	-89.334	-110.10	-1,322.32	1,855.33	1,834.81	20.51	90.446	
3,200.00	3,127.81	2,936.38	2,924.75	12.03	10.31	-89.414	-118.31	-1,332.23	1,892.30	1,871.11	21.19	89.293	
3,300.00	3,223.95	3,029.26	3,016.73	12.44	10.65	-89.491	-126.51	-1,342.15	1,929.28	1,907.41	21.87	88.207	
3,400.00	3,320.09	3,122.14	3,108.71	12.85	10.99	-89.565	-134.72	-1,352.06	1,966.26	1,943.71	22.55	87.184	
3,500.00	3,416.23	3,215.01	3,200.69	13.26	11.33	-89.636	-142.93	-1,361.97	2,003.24	1,980.01	23.23	86.218	
3,600.00	3,512.37	3,307.89	3,292.68	13.67	11.67	-89.705	-151.14	-1,371.89	2,040.23	2,016.31	23.92	85.305	
3,700.00	3,608.51	3,400.77	3,384.66	14.08	12.01	-89.772	-159.34	-1,381.80	2,077.22	2,052.62	24.60	84.439	
3,800.00	3,704.65	3,493.64	3,476.64	14.49	12.35	-89.836	-167.55	-1,391.71	2,114.21	2,088.93	25.28	83.618	
3,900.00	3,800.79	3,586.52	3,568.62	14.91	12.70	-89.897	-175.76	-1,401.63	2,151.21	2,125.24	25.97	82.839	
4,000.00	3,896.93	3,679.40	3,660.60	15.32	13.04	-89.957	-183.96	-1,411.54	2,188.21	2,161.55	26.65	82.098	
4,100.00	3,993.07	3,772.27	3,752.58	15.73	13.38	-90.015	-192.17	-1,421.45	2,225.21	2,197.87	27.34	81.392	
4,200.00	4,089.21	3,865.15	3,844.56	16.14	13.72	-90.071	-200.38	-1,431.37	2,262.21	2,234.18	28.03	80.719	
4,300.00	4,185.35	3,958.03	3,936.54	16.55	14.07	-90.125	-208.59	-1,441.28	2,299.21	2,270.50	28.71	80.078	
4,400.00	4,281.49	4,050.90	4,028.52	16.97	14.41	-90.177	-216.79	-1,451.19	2,336.22	2,306.82	29.40	79.465	
4,500.00	4,377.63	4,143.78	4,120.50	17.38	14.75	-90.228	-225.00	-1,461.11	2,373.23	2,343.14	30.09	78.879	
4,600.00	4,473.77	4,236.66	4,212.48	17.79	15.10	-90.277	-233.21	-1,471.02	2,410.24	2,379.46	30.78	78.318	
4,700.00	4,569.91	4,329.53	4,304.46	18.21	15.44	-90.325	-241.42	-1,480.93	2,447.25	2,415.78	31.46	77.780	
4,800.00	4,666.05	4,422.41	4,396.44	18.62	15.79	-90.371	-249.62	-1,490.85	2,484.26	2,452.11	32.15	77.265 SF	

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

CIVITAS

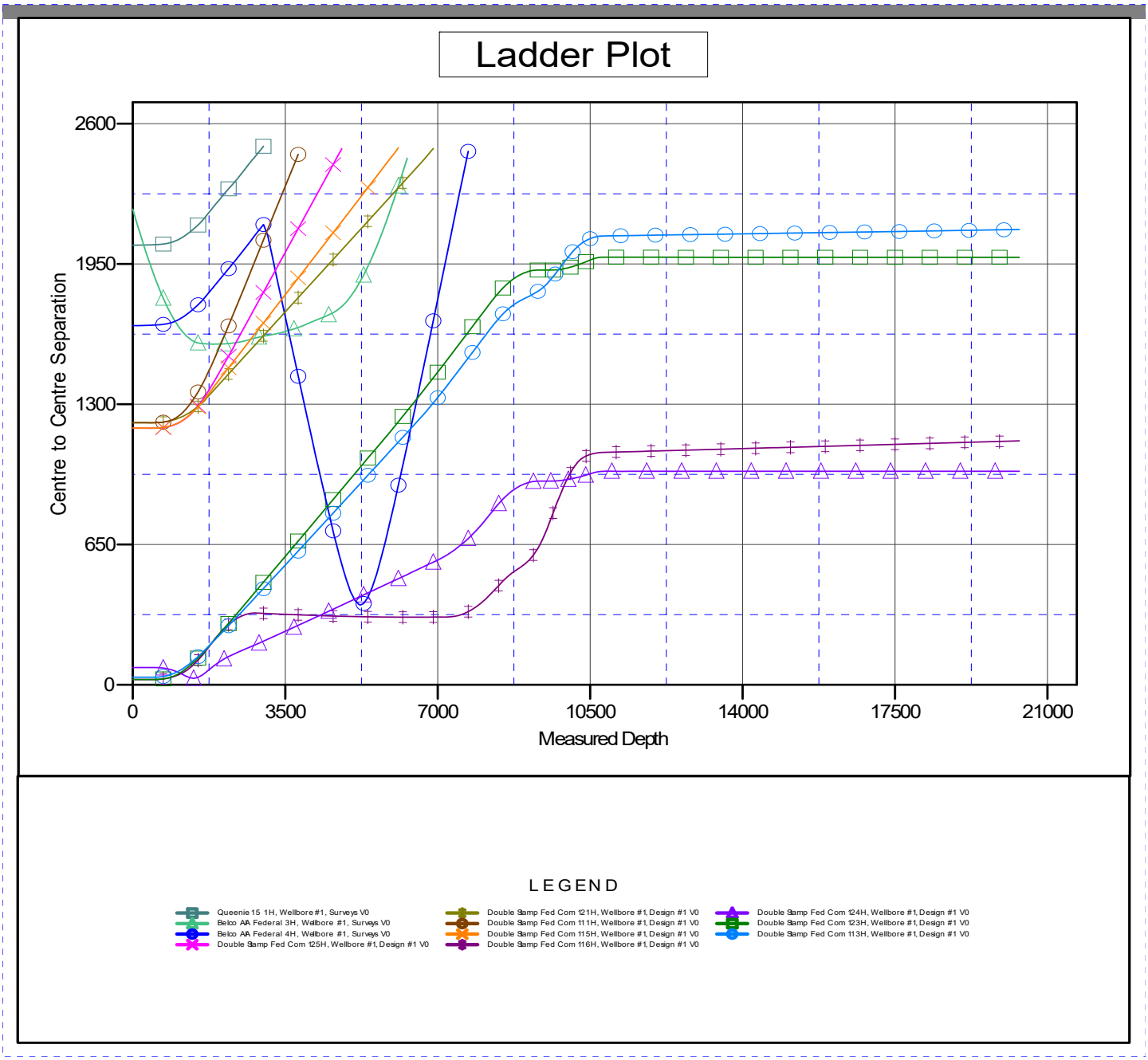
MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 126H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3559.50usft (H&P 376)
Reference Site:	Double Stamp E2-1 (113H,116H,123H,124H,126H)	**MD Reference:**	WELL @ 3559.50usft (H&P 376)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 126H	**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 #1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 3559.50usft (H&P 376)
Offset Depths are relative to Offset Datum
Central Meridian is -104.333334

Coordinates are relative to: Double Stamp Fed Com 126H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.321°



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CIVITAS

MS Directional
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Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

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Offset Depths are relative to Offset Datum
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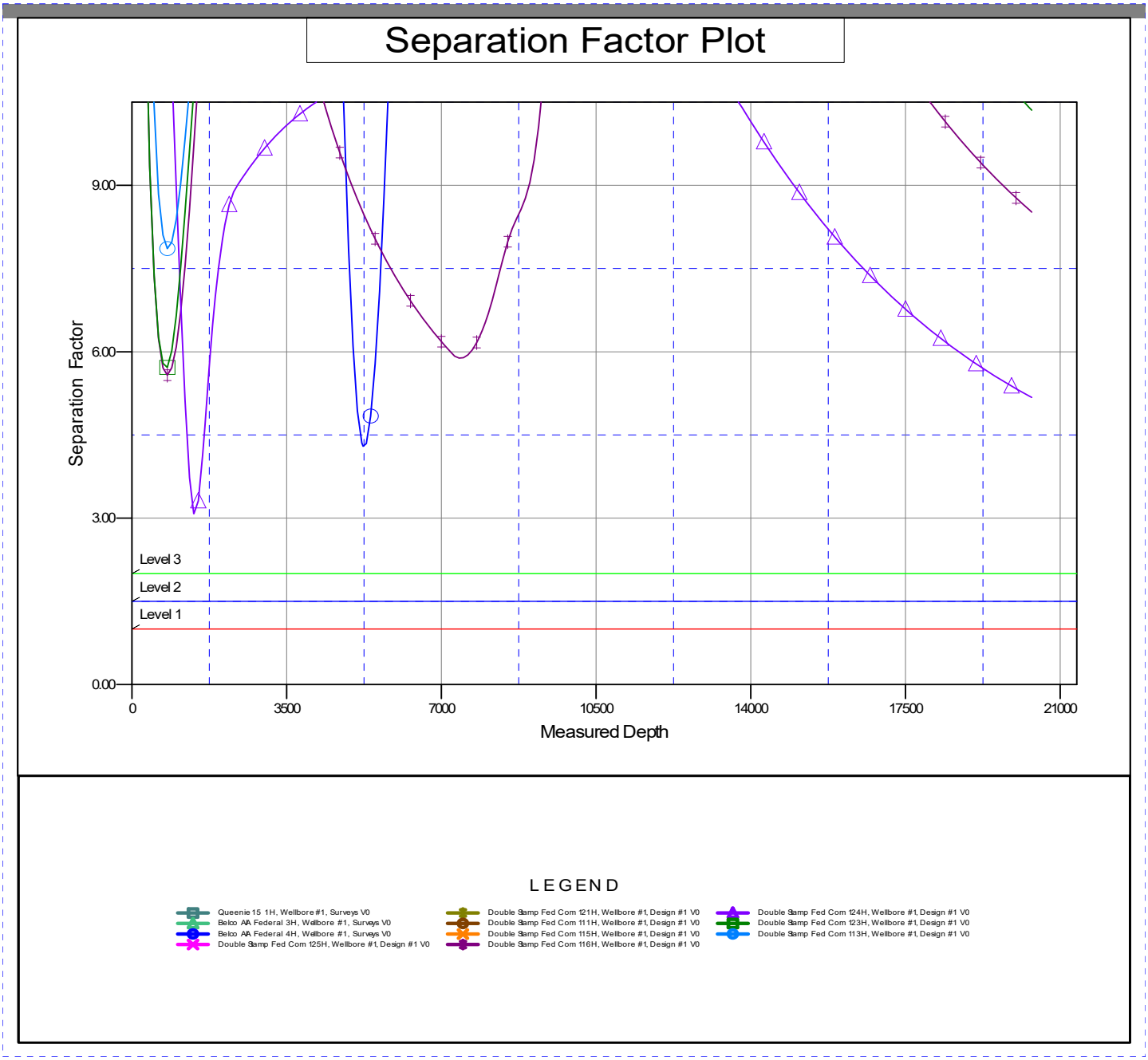
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.321°



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
30-025-54006	53560	SALT LAKE; BONE SPRING

Property Code	Property Name	Well Number
336572	DOUBLE STAMP FED COM	126H

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	2471' E	N 32.5674208	W 103.7363686	LEA

Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
A	11	20-S	32-E	-	5' N	330' E	N 32.5949837	W 103.7294323	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
P	14	20-S	32-E	-	50' S	330' E	N 32.5660622	W 103.7294160	LEA

First Take Point (FTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
P	14	20-S	32-E	-	100' S	330' E	N 32.5661996	W 103.7294162	LEA

Last Take Point (LTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
A	11	20-S	32-E	-	100' N	330' E	N 32.5947226	W 103.7294321	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 10:54:30 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_126H_C102_REV4.dwg BRADLEY /LES 1/7/2025 10:54 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

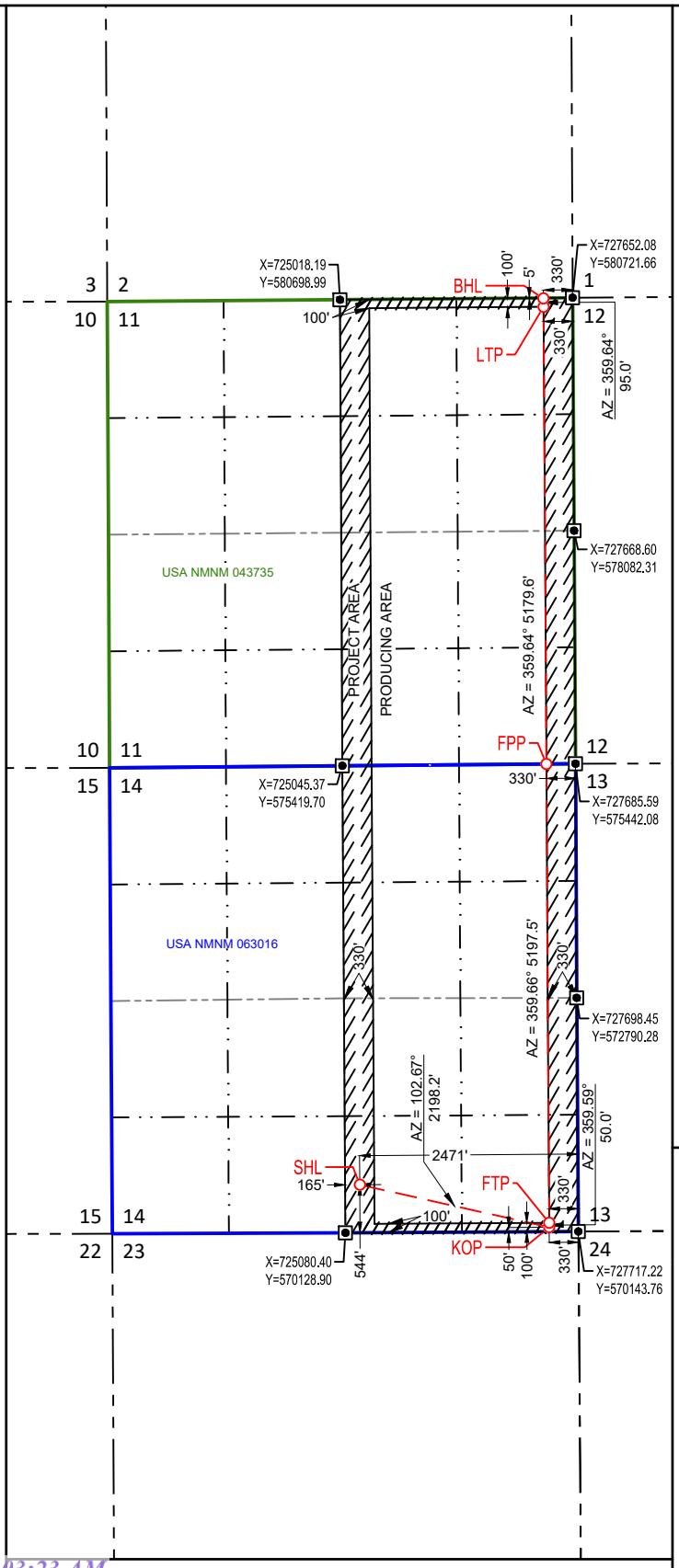
Property Name and Well Number

DOUBLE STAMP FED COM 126H

SURFACE LOCATION (SHL)
NEW MEXICO EAST
NAD 1983
X=725242 Y=570674
LAT.: N 32.5674208
LONG.: W 103.7363686
NAD 1927
X=684062 Y=570612
LAT.: N 32.5672991
LONG.: W 103.7358725
544' FSL 2471' FEL

KICK OFF POINT (KOP)
NEW MEXICO EAST
NAD 1983
X=727387 Y=570192
LAT.: N 32.5660622
LONG.: W 103.7294160
NAD 1927
X=686206 Y=570130
LAT.: N 32.5659405
LONG.: W 103.7289202
50' FSL 330' FEL

FIRST TAKE POINT (FTP)
NEW MEXICO EAST
NAD 1983
X=727387 Y=570242
LAT.: N 32.5661996
LONG.: W 103.7294162
NAD 1927
X=686206 Y=570180
LAT.: N 32.5660779
LONG.: W 103.7289204
100' FSL 330' FEL



FED PERF. POINT (FPP)
NEW MEXICO EAST
NAD 1983
X=727356 Y=575439
LAT.: N 32.5804856
LONG.: W 103.7294208
NAD 1927
X=686175 Y=575377
LAT.: N 32.5803640
LONG.: W 103.7289244
0' FSL 330' FEL

LAST TAKE POINT (LTP)
NEW MEXICO EAST
NAD 1983
X=727323 Y=580619
LAT.: N 32.5947226
LONG.: W 103.7294321
NAD 1927
X=686143 Y=580556
LAT.: N 32.5946011
LONG.: W 103.7289352
100' FNL 330' FEL

BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST
NAD 1983
X=727322 Y=580714
LAT.: N 32.5949837
LONG.: W 103.7294323
NAD 1927
X=686142 Y=580651
LAT.: N 32.5948622
LONG.: W 103.7289354
5' FNL 330' 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 10:54:35 AM

S:\SURVEY\CAVITAS\DOUBLE_STAMP_UNIT\FINAL_PRODUCTS\5_DOUBLE_STAMP_FED_COM_126H_C102_REV4.dwg BRADLEY.ILLES 1/7/2025 10:54 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: 425413
	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