

Well Name: DOUBLE STAMP FED COM	Well Location: T20S / R32E / SEC 14 / SESW / 32.5674393 / -103.74031	County or Parish/State: LEA / NM
Well Number: 121H	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: 2830687

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 01/10/2025	Time Sundry Submitted: 01:03
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: 121H – Sundry ID #2830687 (30-025-54001) 1) SHL is unchanged. 2) Proposed KOP is Section 14, T20S, R32E @ 50' FSL / 1979' FWL. 3) Proposed FTP is Section 14, T20S, R32E @ 100' FSL / 1979' FWL. 4) Proposed LTP is Section 11, T20S, R32E @ 100' FNL / 1979' FWL. 5) Proposed BHL is Section 11, T20S, R32E @ 5' FNL / 1979' FWL. *Note – the Double Stamp FED COM #122H is also being sundried (ID #2830694) 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__121H_01.10.2025_20250110130122.pdf
- Double_Stamp_Fed_Com_121H_Directional_Plan_01.10.2025_20250110130025.pdf
- Double_Stamp_Fed_Com_121H_AC_01.10.2025_20250110125957.pdf
- DOUBLE_STAMP_FED_COM_121H_C102_Revised_01.07.2025_20250110125932.pdf

Received by OCD: 1/27/2025 7:59:41 PM

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Well Name: DOUBLE STAMP FED COM	Well Location: T20S / R32E / SEC 14 / SESW / 32.5674393 / -103.74031	County or Parish/State: LEA / NM
Well Number: 121H	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 01:02 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 <i>Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.</i>		5. Lease Serial No.
		6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well ☐ Oil Well ☐ Gas Well ☐ Other		8. Well Name and No.
2. Name of Operator		9. API Well No.
3a. Address	3b. Phone No. (include area code)	10. Field and Pool or Exploratory Area
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA				
TYPE OF SUBMISSION	TYPE OF ACTION			
☐ 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 recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

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

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

Additional Information

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: SESW / 549 FSL / 1589 FWL / TWSP: 20S / RANGE: 32E / SECTION: 14 / LAT: 32.5674393 / LONG: -103.74031 (TVD: 0 feet, MD: 0 feet)

PPP: SWSW / 100 FSL / 331 FWL / TWSP: 20S / RANGE: 32E / SECTION: 14 / LAT: 32.566212 / LONG: -103.7443944 (TVD: 9767 feet, MD: 10261 feet)

BHL: NWNW / 5 FNL / 331 FWL / TWSP: 20S / RANGE: 32E / SECTION: 11 / LAT: 32.5949469 / LONG: -103.7443922 (TVD: 9723 feet, MD: 10192 feet)



Drilling Operations Plan
 Double Stamp Fed Com #121H
 Civitas Permian Operating, LLC
 SHL 549' FSL & 1,589' FWL, Sec. 14
 BHL 5' FNL & 1979' FWL, Sec. 11
 T20S, R32E Lea County, NM

Elevation above Sea Level: 3531'

DRILLING PROGRAM

1. Estimated Tops

Formation	TVD	MD	Lithologies	Bearing
Rustler Anhydrite	1,505	1,507	Surface	Anhydrite
Top Salt	1,765	1,769	Salt	Salt
Yates	2,931	2,939	Sandstone	None
Capitan Reef Complex	3,569	3,581	Carbonate	None
DMG	4,640	4,658	Sandstone	None
Brushy Canyon	7,420	7,446	Sandstone	Hydrocarbons
Bone Spring Lime	7,745	7,772	Limestone	Hydrocarbons
Upper Avalon	7,800	7,829	Carbonate	Hydrocarbons
Middle Avalon	8,210	8,237	Carbonate	Hydrocarbons
Lower Avalon	8,545	8,572	Carbonate	Hydrocarbons
1st BS Sand	8,770	8,798	Sandstone	Hydrocarbons
2nd BS Carb	9,100	9,129	Carbonate	Hydrocarbons
2nd BS Sand	9,545	9,609	Sandstone	Hydrocarbons
KOP	9,169	9,196	Carbonate	Hydrocarbons
TD	9,742	20,032	Sandstone	Hydrocarbons

2. Notable Zones

2nd Bone Spring Sand is the formation target.

3. Pressure Control

Pressure Control Equipment (See Schematics):

At 20,032', a 5M pressure control system is required. The BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and 1 annular preventer will be used below surface casing to TD. See attachments for BOP and choke manifold diagrams. Also present will be an accumulator that meets the requirements of 43 CFR 3172 for the pressure rating of the BOP stack. A rotating head will also be installed as needed. BOP will be inspected and operated as recommended in 43 CFR 3172. A top drive check valve and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position. The wellhead will be a multi-bowl speed head.

BOP Test procedure will be as follows:



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

Variance Requests:

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	1,532	16	API	No	0	1,532	0	1,532	J-55	75	BTC	1.13	1.15	1.6
1st Intermediate	14 3/4	1,532	2,989	11 3/4	API	No	0	2,989	0	2,831	J-55	47	BTC	1.13	1.15	1.6
2nd Intermediate	10 5/8	2,989	4,508	8 5/8	API	No	0	4,508	0	4,490	J-55	32	BTC	1.13	1.15	1.6
Production	7 7/8	4,508	20,032	5 1/2	NON API	No	0	20,032	0	9,742	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	985	1.72	1694	13.5	75%	C	5% NCI + LCM
	Tail	1232	310	1.33	412	14.8	75%	C	5% NCI + LCM
1st Intermediate	Lead	0	478	2.72	1299	11.0	65%	C	Bentonite + 1% CaCL ₂ + 8% NaCl + LCM
	Tail	2289	229	1.72	394	13.5	30%	C	5% NaCl + LCM
2nd Intermediate	Lead	0	357	2.72	970	11.0	65%	C	Bentonite + 1% CaCL ₂ + 8% NaCl + LCM
	Tail	3508	159	1.72	273	13.5	30%	C	5% NaCl + LCM
Production	Lead	4308	268	3.38	907	10.5	20%	C	Fluid Loss + Dispersant + Retarder + LCM
	Tail	8696	2245	1.44	3232	13.2	20%	H	Fluid Loss + Dispersant + Retarder + LCM

5. Mud Program

Mud Design:

Name	Top	Bottom	Type	Mud Weight	Visc	Fluid Loss
Surface	0	1,532	FW Spud Mud	8.40	28	NC
1st Intermediate	1,532	2,989	Brine Water	10.00	27-30	NC
2nd Intermediate	2,989	4,508	FW/Cut Brine	9.00	27-30	NC
Production	4,508	20,032	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.



CIVITAS

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 T20S, R32E Lea County, NM

6. Cores, Tests, & Logs

- Electric Logging Program: No open-hole logs are planned at this time.
- GR will be collected while drilling through the MWD tools from KOP to TD.
- A 2-person mud logging program will be used from KOP to TD.
- No DSTs or cores are planned at this time.
- CBL w/ CCL from as far as gravity will let it fall to TOC.

7. Down Hole Conditions

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is $\approx 4,550$ psi. Expected bottom hole temperature is $\approx 165^{\circ}$ 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 track
 - ii. One centralizer per 3 joints to surface
 - iii. **Cement placement simulation attached**

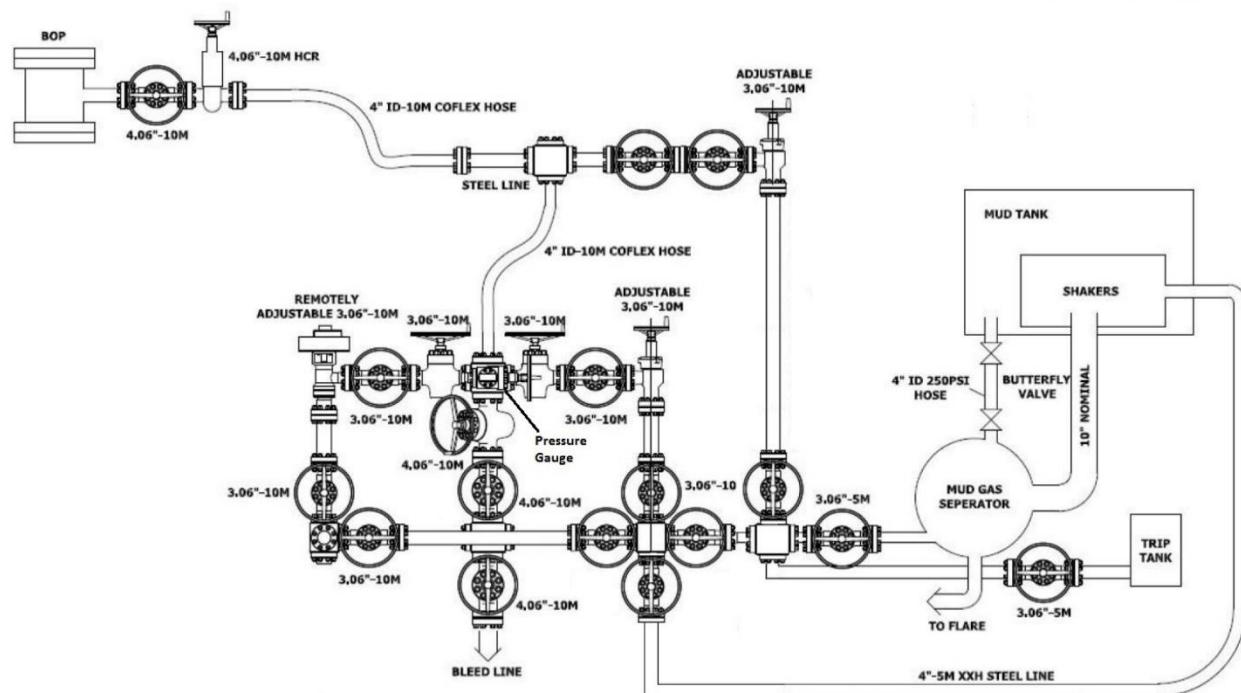
C. **Bradenhead Squeeze Post Frac:** This will be performed post frac with the following slurry:

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Post Frac Bradenhead	Primary	2,870	236	1.72	406	13.5	0	C	5% NaCl + LCM



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T20S, R32E Lea County, NM

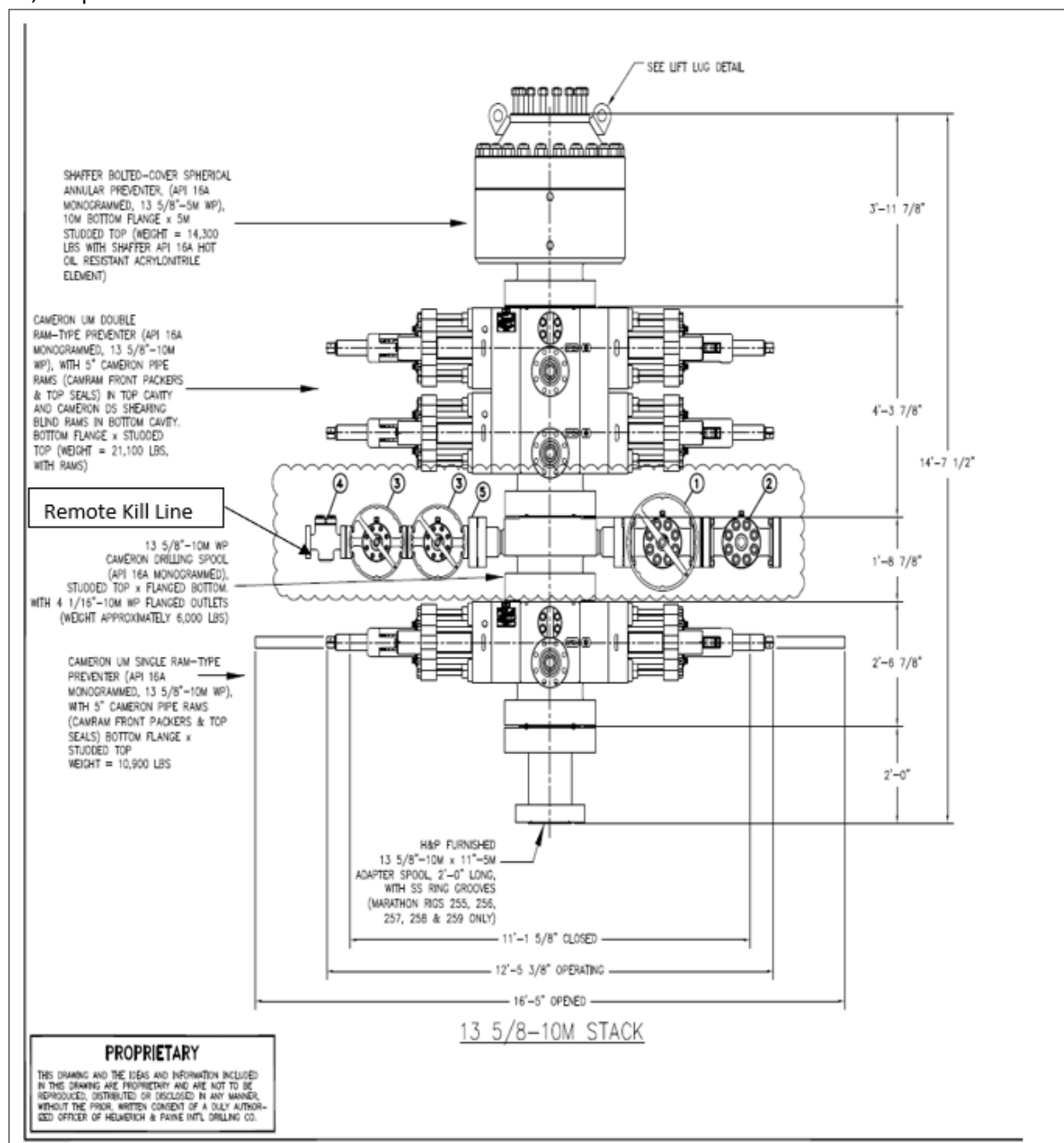
10M Choke Layout





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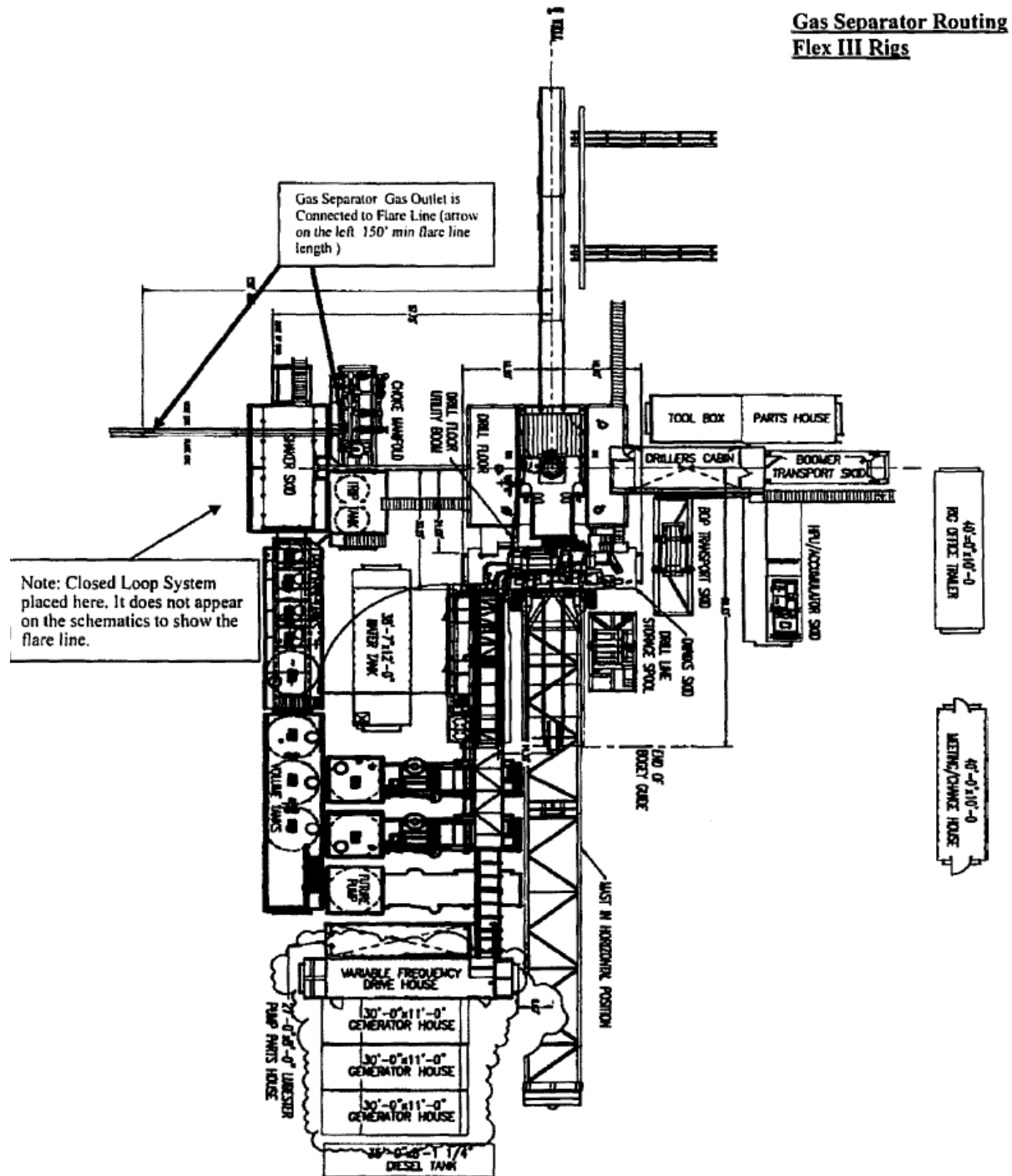
10,000 psi BOP Stack





Drilling Operations Plan

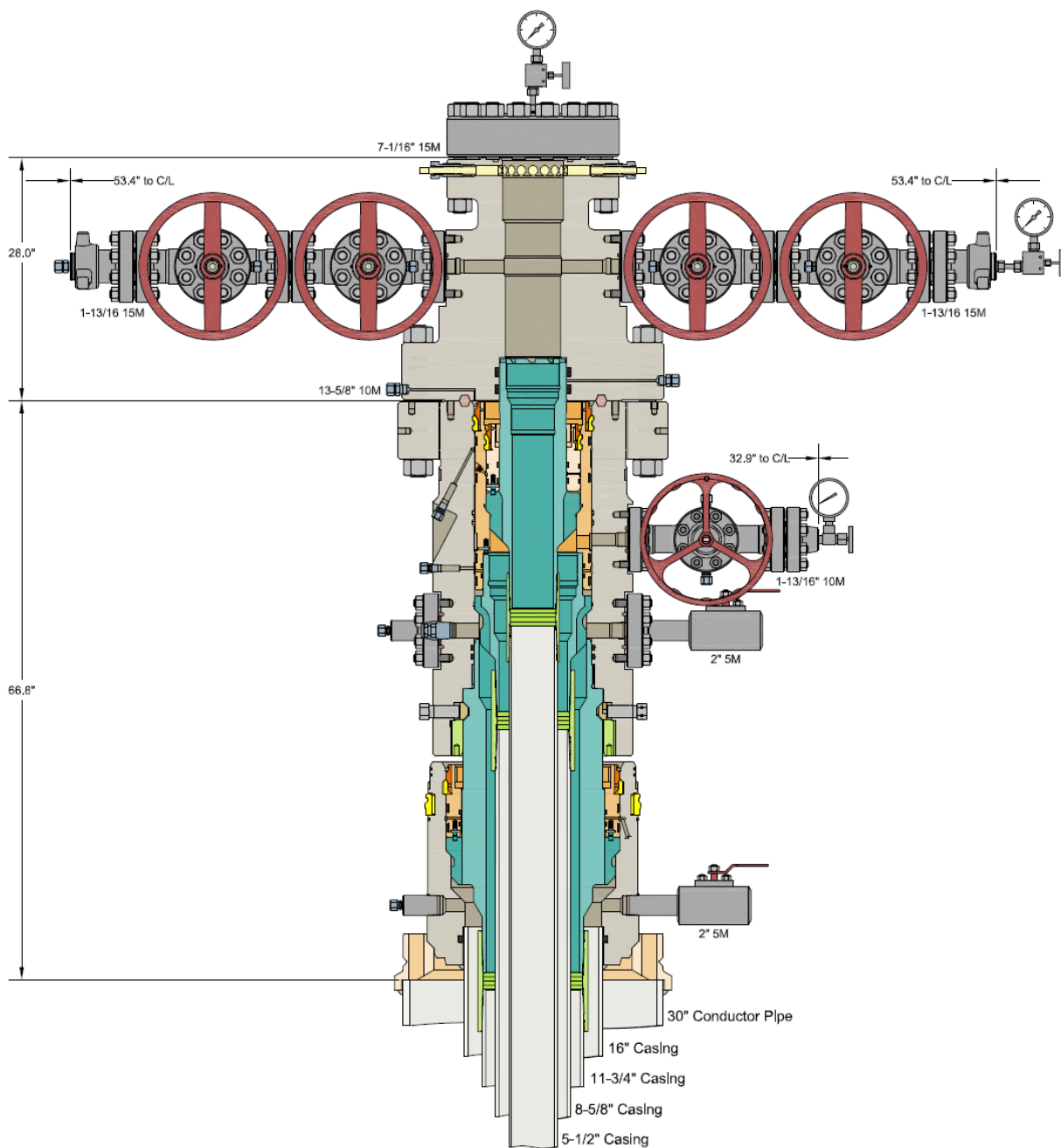
Double Stamp Fed Com #121H
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T20S, R32E Lea County, NM

Multi-bowl Wellhead Design



Company: Civitas Permian Operating, LLC
Well: Double Stamp Fed Com 121H
County: Lea County, New Mexico (NAD 83)
Rig: H&P 264
Wellbore: Wellbore #1
Design: Design #1
Date: 15:31, 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 6.047°
 To convert a Magnetic Direction to a True Direction, Add 6.367° East
 To convert a True Direction to a Grid Direction, Subtract 0.319°

Double Stamp Fed Com 121H

Target Data Ver. 1

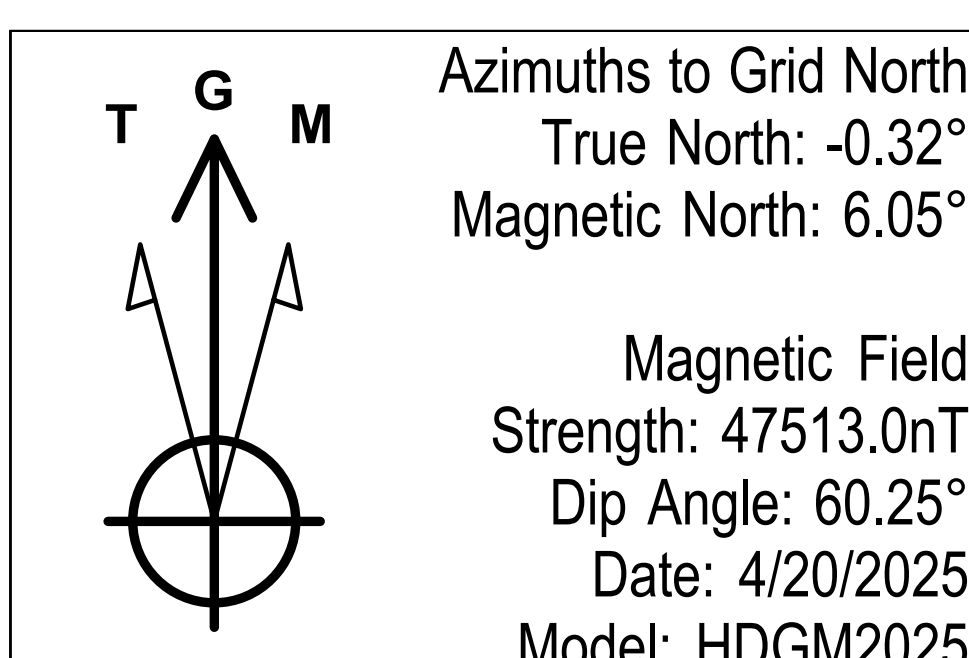
TVD	VS	INC
9742	0	90

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP v1_Double Stamp Fed Com 121H	9381.22	-447.54	392.20	570226.51	724420.08	32.566203	-103.739045
KOP v1_Double Stamp Fed Com 121H	9169.04	-497.53	392.50	570176.51	724420.38	32.566066	-103.739045
LTP v1_Double Stamp Fed Com 121H	9742.00	9919.43	335.46	580593.47	724363.34	32.594699	-103.739041
PBHL v1_Double Stamp Fed Com 121H	9742.00	10014.42	334.95	580688.47	724362.84	32.594960	-103.739041

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.000	0.00	KOP, 1.00°/100' Build
1370.13	5.70	150.24	1369.19	-24.60	14.07	1.00	150.236	-24.68	Hold 5.70° Inc, 150.24° Azm
6456.91	5.70	150.24	6430.81	-463.28	264.93	0.00	0.000	-464.70	Begin 1.00°/100' Drop
7027.04	0.00	0.00	7000.00	-487.88	279.00	1.00	180.000	-489.38	Begin Vertical Hold
9196.08	0.00	0.00	9169.04	-487.88	279.00	0.00	0.000	-489.38	Begin 10.00°/100' Build
10096.08	90.00	8.00	9742.00	79.50	358.74	10.00	8.000	77.56	Hold 90.00° Inc, Begin 2°/100' Turn
10511.62	90.00	359.69	9742.00	493.74	386.58	2.00	-90.000	491.64	Hold 359.69° Azm
20032.45	90.00	359.69	9742.00	10014.42	334.95	0.00	0.000	10012.47	PBHL



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

Magnetic Field
Strength: 47513.0nT
Dip Angle: 60.25°
Date: 4/20/2025
Model: HDGM2025

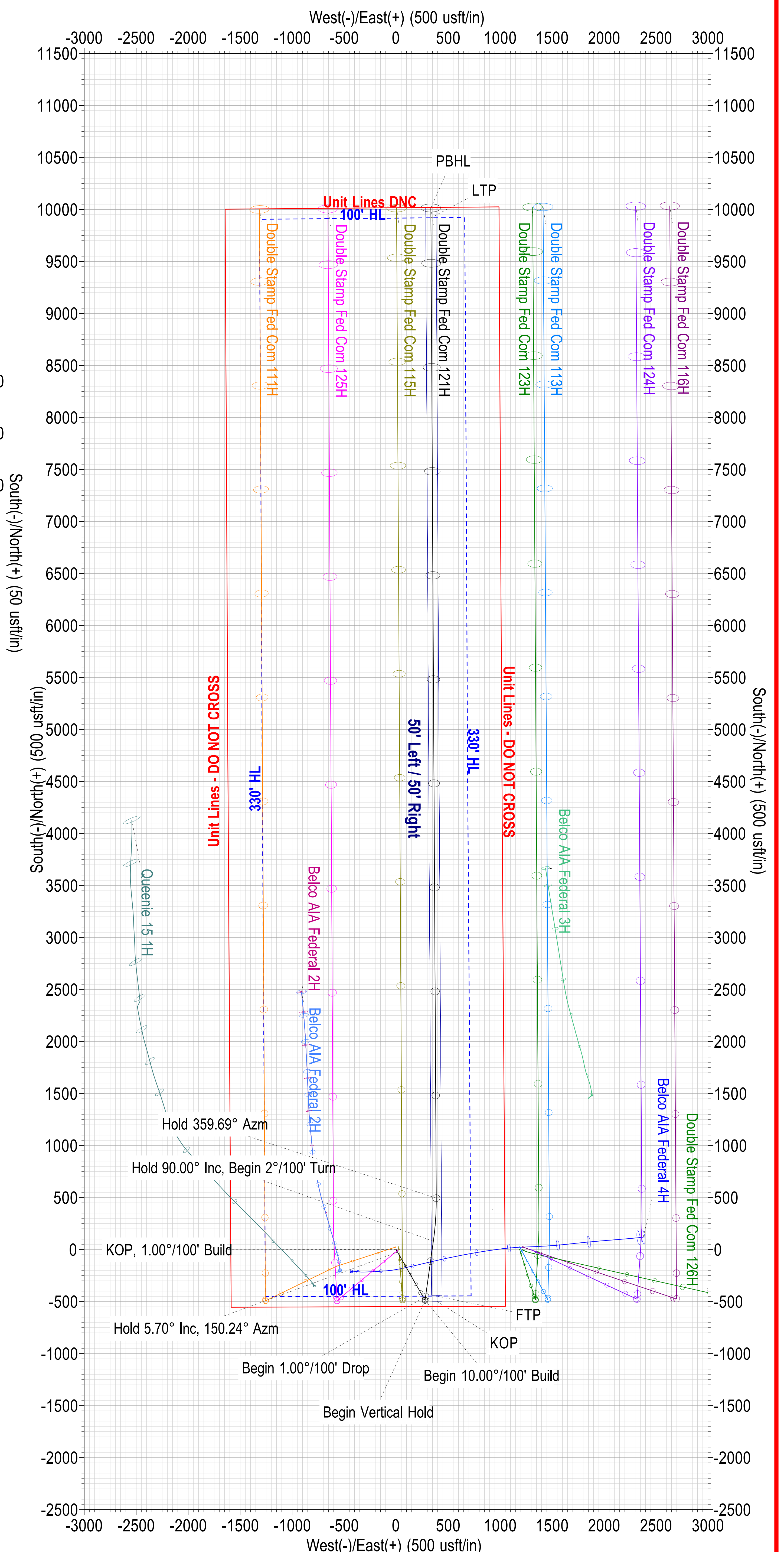
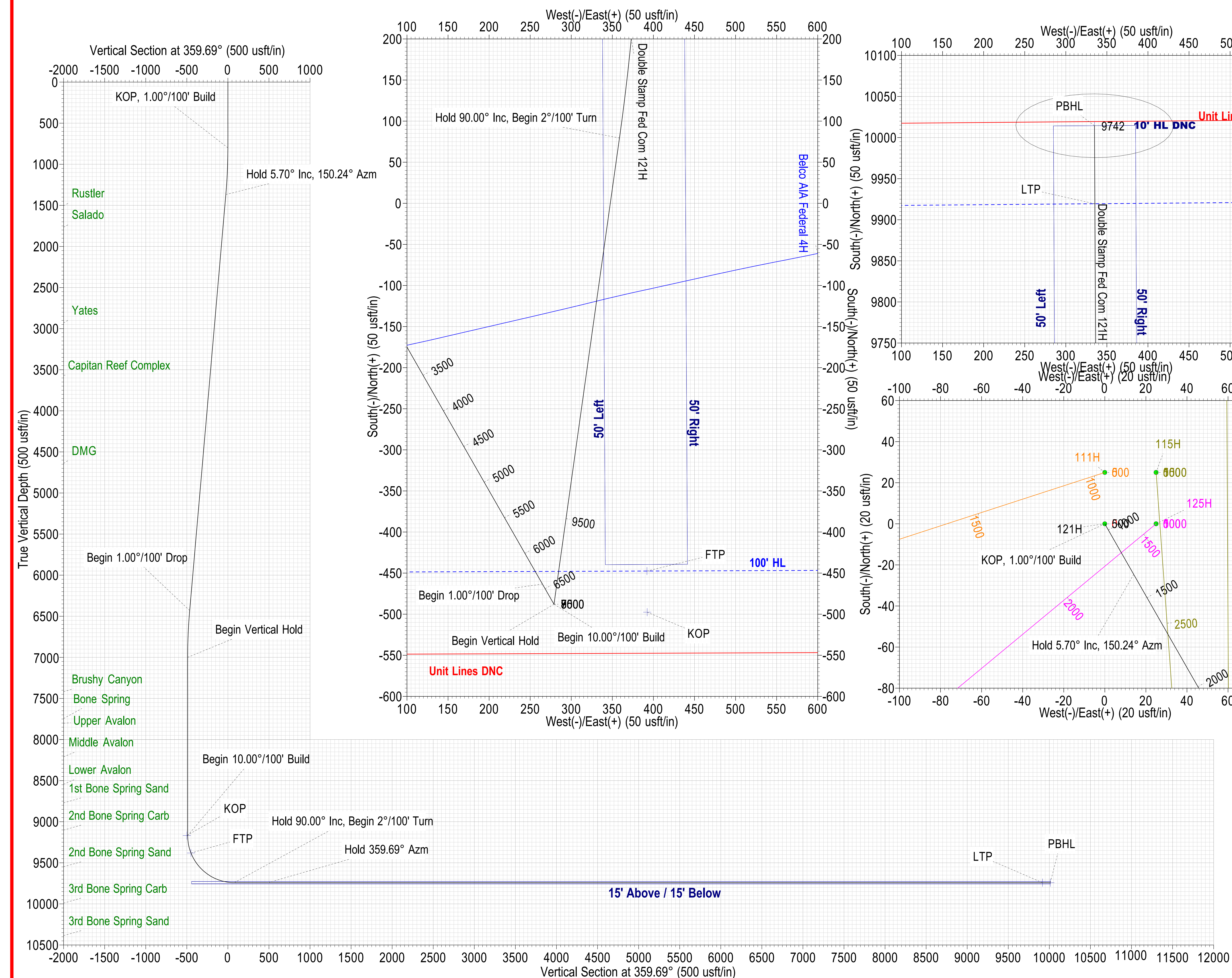
WELL DETAILS: Double Stamp Fed Com 121H

		GL @ 3531.00	WELL @ 3557.50usft (H&P 264)		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	570674.04	724027.89	32.567439	-103.740310

MS *Directional*

SURVEY PROGRAM

Depth From	Depth To	Survey/Plan	Tool
0.00	20032.45	Design #1 (Wellbore #1)	MWD+IFR1+SAG+FDIR





Civitas Permian Operating, LLC

Lea County, New Mexico (NAD 83)

Double Stamp W2-1 (111H,115H,121H,125H)

Double Stamp Fed Com 121H

Wellbore #1

Plan: Design #1

Standard Planning Report

08 January, 2025





MS Directional Planning Report



Database:	TRG_EDMConroe	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Company:	Civitas Permian Operating, LLC	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Project:	Lea County, New Mexico (NAD 83)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site:	Double Stamp W2-1 (111H,115H,121H,125H)	North Reference:	Grid
Well:	Double Stamp Fed Com 121H	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 W2-1 (111H,115H,121H,125H)				
Site Position:		Northing:	570,699.05 usft	Latitude:	32.567508
From:	Map	Easting:	724,027.88 usft	Longitude:	-103.740310
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "		

Well	Double Stamp Fed Com 121H					
Well Position	+N/-S	0.00 usft	Northing:	570,674.05 usft	Latitude:	32.567439
	+E/-W	0.00 usft	Easting:	724,027.88 usft	Longitude:	-103.740310
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,531.00 usft
Grid Convergence:	0.319 °					

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2025	4/20/2025	6.367	60.250	47,513.000

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	359.69	

Plan Survey Tool Program	Date	1/8/2025			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	20,032.45	Design #1 (Wellbore #1)	MWD+IFR1+SAG+FDIR	
				OWSG MWD + IFR1 + Sag	


MS Directional
 Planning Report


Database:	TRG_EDMConroe	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Company:	Civitas Permian Operating, LLC	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Project:	Lea County, New Mexico (NAD 83)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site:	Double Stamp W2-1 (111H,115H,121H,125H)	North Reference:	Grid
Well:	Double Stamp Fed Com 121H	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	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,370.13	5.70	150.24	1,369.19	-24.60	14.07	1.00	1.00	0.00	150.236	
6,456.91	5.70	150.24	6,430.81	-463.28	264.93	0.00	0.00	0.00	0.000	
7,027.04	0.00	0.00	7,000.00	-487.88	279.00	1.00	-1.00	0.00	180.000	
9,196.08	0.00	0.00	9,169.04	-487.88	279.00	0.00	0.00	0.00	0.000	
10,096.08	90.00	8.00	9,742.00	79.50	358.74	10.00	10.00	0.00	8.000	
10,511.62	90.00	359.69	9,742.00	493.74	386.58	2.00	0.00	-2.00	-90.000	
20,032.45	90.00	359.69	9,742.00	10,014.42	334.95	0.00	0.00	0.00	0.000	PBHL v1_Double S



MS Directional Planning Report



Database:	TRG_EDMConroe	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Company:	Civitas Permian Operating, LLC	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Project:	Lea County, New Mexico (NAD 83)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site:	Double Stamp W2-1 (111H,115H,121H,125H)	North Reference:	Grid
Well:	Double Stamp Fed Com 121H	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
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, 1.00°/100' Build									
900.00	1.00	150.24	899.99	-0.76	0.43	-0.76	1.00	1.00	0.00
1,000.00	2.00	150.24	999.96	-3.03	1.73	-3.04	1.00	1.00	0.00
1,100.00	3.00	150.24	1,099.86	-6.82	3.90	-6.84	1.00	1.00	0.00
1,200.00	4.00	150.24	1,199.68	-12.12	6.93	-12.15	1.00	1.00	0.00
1,300.00	5.00	150.24	1,299.37	-18.93	10.82	-18.98	1.00	1.00	0.00
1,370.13	5.70	150.24	1,369.19	-24.60	14.07	-24.68	1.00	1.00	0.00
Hold 5.70° Inc, 150.24° Azm									
1,400.00	5.70	150.24	1,398.91	-27.18	15.54	-27.26	0.00	0.00	0.00
1,500.00	5.70	150.24	1,498.42	-35.80	20.47	-35.91	0.00	0.00	0.00
1,507.32	5.70	150.24	1,505.70	-36.43	20.84	-36.55	0.00	0.00	0.00
Rustler									
1,600.00	5.70	150.24	1,597.92	-44.43	25.41	-44.56	0.00	0.00	0.00
1,700.00	5.70	150.24	1,697.43	-53.05	30.34	-53.21	0.00	0.00	0.00
1,768.91	5.70	150.24	1,766.00	-58.99	33.74	-59.18	0.00	0.00	0.00
Salado									
1,800.00	5.70	150.24	1,796.93	-61.67	35.27	-61.86	0.00	0.00	0.00
1,900.00	5.70	150.24	1,896.44	-70.30	40.20	-70.51	0.00	0.00	0.00
2,000.00	5.70	150.24	1,995.94	-78.92	45.13	-79.17	0.00	0.00	0.00
2,100.00	5.70	150.24	2,095.45	-87.55	50.06	-87.82	0.00	0.00	0.00
2,200.00	5.70	150.24	2,194.95	-96.17	55.00	-96.47	0.00	0.00	0.00
2,300.00	5.70	150.24	2,294.46	-104.79	59.93	-105.12	0.00	0.00	0.00
2,400.00	5.70	150.24	2,393.97	-113.42	64.86	-113.77	0.00	0.00	0.00
2,500.00	5.70	150.24	2,493.47	-122.04	69.79	-122.42	0.00	0.00	0.00
2,600.00	5.70	150.24	2,592.98	-130.66	74.72	-131.07	0.00	0.00	0.00
2,700.00	5.70	150.24	2,692.48	-139.29	79.65	-139.72	0.00	0.00	0.00
2,800.00	5.70	150.24	2,791.99	-147.91	84.59	-148.37	0.00	0.00	0.00
2,900.00	5.70	150.24	2,891.49	-156.54	89.52	-157.02	0.00	0.00	0.00
2,939.70	5.70	150.24	2,931.00	-159.96	91.48	-160.45	0.00	0.00	0.00
Yates									
3,000.00	5.70	150.24	2,991.00	-165.16	94.45	-165.67	0.00	0.00	0.00
3,100.00	5.70	150.24	3,090.50	-173.78	99.38	-174.32	0.00	0.00	0.00
3,200.00	5.70	150.24	3,190.01	-182.41	104.31	-182.97	0.00	0.00	0.00
3,300.00	5.70	150.24	3,289.51	-191.03	109.24	-191.62	0.00	0.00	0.00
3,400.00	5.70	150.24	3,389.02	-199.66	114.18	-200.27	0.00	0.00	0.00
3,500.00	5.70	150.24	3,488.52	-208.28	119.11	-208.92	0.00	0.00	0.00
3,581.38	5.70	150.24	3,569.50	-215.30	123.12	-215.96	0.00	0.00	0.00
Capitan Reef Complex									
3,600.00	5.70	150.24	3,588.03	-216.90	124.04	-217.57	0.00	0.00	0.00
3,700.00	5.70	150.24	3,687.53	-225.53	128.97	-226.22	0.00	0.00	0.00
3,800.00	5.70	150.24	3,787.04	-234.15	133.90	-234.87	0.00	0.00	0.00
3,900.00	5.70	150.24	3,886.55	-242.77	138.83	-243.52	0.00	0.00	0.00
4,000.00	5.70	150.24	3,986.05	-251.40	143.76	-252.17	0.00	0.00	0.00
4,100.00	5.70	150.24	4,085.56	-260.02	148.70	-260.82	0.00	0.00	0.00



MS Directional Planning Report



Database:	TRG_EDMConroe	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Company:	Civitas Permian Operating, LLC	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Project:	Lea County, New Mexico (NAD 83)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site:	Double Stamp W2-1 (111H,115H,121H,125H)	North Reference:	Grid
Well:	Double Stamp Fed Com 121H	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)
4,200.00	5.70	150.24	4,185.06	-268.65	153.63	-269.47	0.00	0.00	0.00
4,300.00	5.70	150.24	4,284.57	-277.27	158.56	-278.12	0.00	0.00	0.00
4,400.00	5.70	150.24	4,384.07	-285.89	163.49	-286.77	0.00	0.00	0.00
4,500.00	5.70	150.24	4,483.58	-294.52	168.42	-295.42	0.00	0.00	0.00
4,600.00	5.70	150.24	4,583.08	-303.14	173.35	-304.07	0.00	0.00	0.00
4,657.80	5.70	150.24	4,640.60	-308.13	176.21	-309.07	0.00	0.00	0.00
DMG									
4,700.00	5.70	150.24	4,682.59	-311.76	178.29	-312.72	0.00	0.00	0.00
4,800.00	5.70	150.24	4,782.09	-320.39	183.22	-321.37	0.00	0.00	0.00
4,900.00	5.70	150.24	4,881.60	-329.01	188.15	-330.02	0.00	0.00	0.00
5,000.00	5.70	150.24	4,981.10	-337.64	193.08	-338.68	0.00	0.00	0.00
5,100.00	5.70	150.24	5,080.61	-346.26	198.01	-347.33	0.00	0.00	0.00
5,200.00	5.70	150.24	5,180.11	-354.88	202.94	-355.98	0.00	0.00	0.00
5,300.00	5.70	150.24	5,279.62	-363.51	207.88	-364.63	0.00	0.00	0.00
5,400.00	5.70	150.24	5,379.12	-372.13	212.81	-373.28	0.00	0.00	0.00
5,500.00	5.70	150.24	5,478.63	-380.75	217.74	-381.93	0.00	0.00	0.00
5,600.00	5.70	150.24	5,578.14	-389.38	222.67	-390.58	0.00	0.00	0.00
5,700.00	5.70	150.24	5,677.64	-398.00	227.60	-399.23	0.00	0.00	0.00
5,800.00	5.70	150.24	5,777.15	-406.63	232.53	-407.88	0.00	0.00	0.00
5,900.00	5.70	150.24	5,876.65	-415.25	237.47	-416.53	0.00	0.00	0.00
6,000.00	5.70	150.24	5,976.16	-423.87	242.40	-425.18	0.00	0.00	0.00
6,100.00	5.70	150.24	6,075.66	-432.50	247.33	-433.83	0.00	0.00	0.00
6,200.00	5.70	150.24	6,175.17	-441.12	252.26	-442.48	0.00	0.00	0.00
6,300.00	5.70	150.24	6,274.67	-449.74	257.19	-451.13	0.00	0.00	0.00
6,400.00	5.70	150.24	6,374.18	-458.37	262.12	-459.78	0.00	0.00	0.00
6,456.91	5.70	150.24	6,430.81	-463.28	264.93	-464.70	0.00	0.00	0.00
Begin 1.00°/100' Drop									
6,500.00	5.27	150.24	6,473.70	-466.85	266.97	-468.29	1.00	-1.00	0.00
6,600.00	4.27	150.24	6,573.35	-474.07	271.10	-475.53	1.00	-1.00	0.00
6,700.00	3.27	150.24	6,673.13	-479.78	274.37	-481.26	1.00	-1.00	0.00
6,800.00	2.27	150.24	6,773.02	-483.98	276.77	-485.47	1.00	-1.00	0.00
6,900.00	1.27	150.24	6,872.97	-486.66	278.30	-488.16	1.00	-1.00	0.00
7,000.00	0.27	150.24	6,972.96	-487.82	278.97	-489.33	1.00	-1.00	0.00
7,027.04	0.00	0.00	7,000.00	-487.88	279.00	-489.38	1.00	-1.00	0.00
Begin Vertical Hold									
7,100.00	0.00	0.00	7,072.96	-487.88	279.00	-489.38	0.00	0.00	0.00
7,200.00	0.00	0.00	7,172.96	-487.88	279.00	-489.38	0.00	0.00	0.00
7,300.00	0.00	0.00	7,272.96	-487.88	279.00	-489.38	0.00	0.00	0.00
7,400.00	0.00	0.00	7,372.96	-487.88	279.00	-489.38	0.00	0.00	0.00
7,446.24	0.00	0.00	7,419.20	-487.88	279.00	-489.38	0.00	0.00	0.00
Brushy Canyon									
7,500.00	0.00	0.00	7,472.96	-487.88	279.00	-489.38	0.00	0.00	0.00
7,600.00	0.00	0.00	7,572.96	-487.88	279.00	-489.38	0.00	0.00	0.00
7,700.00	0.00	0.00	7,672.96	-487.88	279.00	-489.38	0.00	0.00	0.00
7,771.64	0.00	0.00	7,744.60	-487.88	279.00	-489.38	0.00	0.00	0.00
Bone Spring									
7,800.00	0.00	0.00	7,772.96	-487.88	279.00	-489.38	0.00	0.00	0.00
7,829.14	0.00	0.00	7,802.10	-487.88	279.00	-489.38	0.00	0.00	0.00
Upper Avalon									
7,900.00	0.00	0.00	7,872.96	-487.88	279.00	-489.38	0.00	0.00	0.00
8,000.00	0.00	0.00	7,972.96	-487.88	279.00	-489.38	0.00	0.00	0.00
8,100.00	0.00	0.00	8,072.96	-487.88	279.00	-489.38	0.00	0.00	0.00
8,200.00	0.00	0.00	8,172.96	-487.88	279.00	-489.38	0.00	0.00	0.00



MS Directional Planning Report



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Project:	Lea County, New Mexico (NAD 83)	MD Reference:	WELL @ 3557.50usft (H&P 264)
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Well:	Double Stamp Fed Com 121H	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)
8,237.34	0.00	0.00	8,210.30	-487.88	279.00	-489.38	0.00	0.00	0.00
Middle Avalon									
8,300.00	0.00	0.00	8,272.96	-487.88	279.00	-489.38	0.00	0.00	0.00
8,400.00	0.00	0.00	8,372.96	-487.88	279.00	-489.38	0.00	0.00	0.00
8,500.00	0.00	0.00	8,472.96	-487.88	279.00	-489.38	0.00	0.00	0.00
8,571.64	0.00	0.00	8,544.60	-487.88	279.00	-489.38	0.00	0.00	0.00
Lower Avalon									
8,600.00	0.00	0.00	8,572.96	-487.88	279.00	-489.38	0.00	0.00	0.00
8,700.00	0.00	0.00	8,672.96	-487.88	279.00	-489.38	0.00	0.00	0.00
8,798.04	0.00	0.00	8,771.00	-487.88	279.00	-489.38	0.00	0.00	0.00
1st Bone Spring Sand									
8,800.00	0.00	0.00	8,772.96	-487.88	279.00	-489.38	0.00	0.00	0.00
8,900.00	0.00	0.00	8,872.96	-487.88	279.00	-489.38	0.00	0.00	0.00
9,000.00	0.00	0.00	8,972.96	-487.88	279.00	-489.38	0.00	0.00	0.00
9,100.00	0.00	0.00	9,072.96	-487.88	279.00	-489.38	0.00	0.00	0.00
9,129.34	0.00	0.00	9,102.30	-487.88	279.00	-489.38	0.00	0.00	0.00
2nd Bone Spring Carb									
9,196.08	0.00	0.00	9,169.04	-487.88	279.00	-489.38	0.00	0.00	0.00
Begin 10.00°/100' Build									
9,200.00	0.39	8.00	9,172.96	-487.87	279.00	-489.37	10.00	10.00	0.00
9,250.00	5.39	8.00	9,222.88	-485.37	279.35	-486.87	10.00	10.00	0.00
9,300.00	10.39	8.00	9,272.39	-478.57	280.31	-480.08	10.00	10.00	0.00
9,350.00	15.39	8.00	9,321.11	-467.53	281.86	-469.05	10.00	10.00	0.00
9,400.00	20.39	8.00	9,368.68	-452.32	284.00	-453.85	10.00	10.00	0.00
9,450.00	25.39	8.00	9,414.73	-433.07	286.70	-434.61	10.00	10.00	0.00
9,500.00	30.39	8.00	9,458.90	-409.91	289.96	-411.48	10.00	10.00	0.00
9,550.00	35.39	8.00	9,500.88	-383.04	293.74	-384.62	10.00	10.00	0.00
9,600.00	40.39	8.00	9,540.32	-352.64	298.01	-354.24	10.00	10.00	0.00
9,609.49	41.34	8.00	9,547.50	-346.48	298.87	-348.10	10.00	10.00	0.00
2nd Bone Spring Sand									
9,650.00	45.39	8.00	9,576.94	-318.95	302.74	-320.58	10.00	10.00	0.00
9,700.00	50.39	8.00	9,610.46	-282.22	307.90	-283.89	10.00	10.00	0.00
9,750.00	55.39	8.00	9,640.61	-242.75	313.45	-244.44	10.00	10.00	0.00
9,800.00	60.39	8.00	9,667.18	-200.82	319.34	-202.55	10.00	10.00	0.00
9,850.00	65.39	8.00	9,689.96	-156.76	325.54	-158.52	10.00	10.00	0.00
9,900.00	70.39	8.00	9,708.77	-110.91	331.98	-112.70	10.00	10.00	0.00
9,950.00	75.39	8.00	9,723.48	-63.60	338.63	-65.43	10.00	10.00	0.00
10,000.00	80.39	8.00	9,733.96	-15.20	345.43	-17.07	10.00	10.00	0.00
10,050.00	85.39	8.00	9,740.15	33.92	352.33	32.01	10.00	10.00	0.00
10,096.08	90.00	8.00	9,742.00	79.50	358.74	77.56	10.00	10.00	0.00
Hold 90.00° Inc, Begin 2°/100' Turn									
10,100.00	90.00	7.92	9,742.00	83.38	359.28	81.44	2.00	0.00	-2.00
10,200.00	90.00	5.92	9,742.00	182.65	371.33	180.63	2.00	0.00	-2.00
10,300.00	90.00	3.92	9,742.00	282.27	379.91	280.21	2.00	0.00	-2.00
10,400.00	90.00	1.92	9,742.00	382.14	385.01	380.05	2.00	0.00	-2.00
10,500.00	90.00	359.92	9,742.00	482.12	386.62	480.02	2.00	0.00	-2.00
10,511.62	90.00	359.69	9,742.00	493.74	386.58	491.64	2.00	0.00	-2.00
Hold 359.69° Azm									
10,600.00	90.00	359.69	9,742.00	582.12	386.10	580.02	0.00	0.00	0.00
10,700.00	90.00	359.69	9,742.00	682.12	385.56	680.02	0.00	0.00	0.00
10,800.00	90.00	359.69	9,742.00	782.12	385.01	780.02	0.00	0.00	0.00
10,900.00	90.00	359.69	9,742.00	882.11	384.47	880.02	0.00	0.00	0.00
11,000.00	90.00	359.69	9,742.00	982.11	383.93	980.02	0.00	0.00	0.00



MS Directional Planning Report



Database:	TRG_EDMConroe	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Company:	Civitas Permian Operating, LLC	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Project:	Lea County, New Mexico (NAD 83)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site:	Double Stamp W2-1 (111H,115H,121H,125H)	North Reference:	Grid
Well:	Double Stamp Fed Com 121H	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)
11,100.00	90.00	359.69	9,742.00	1,082.11	383.39	1,080.02	0.00	0.00	0.00
11,200.00	90.00	359.69	9,742.00	1,182.11	382.85	1,180.02	0.00	0.00	0.00
11,300.00	90.00	359.69	9,742.00	1,282.11	382.30	1,280.02	0.00	0.00	0.00
11,400.00	90.00	359.69	9,742.00	1,382.11	381.76	1,380.02	0.00	0.00	0.00
11,500.00	90.00	359.69	9,742.00	1,482.10	381.22	1,480.02	0.00	0.00	0.00
11,600.00	90.00	359.69	9,742.00	1,582.10	380.68	1,580.02	0.00	0.00	0.00
11,700.00	90.00	359.69	9,742.00	1,682.10	380.13	1,680.02	0.00	0.00	0.00
11,800.00	90.00	359.69	9,742.00	1,782.10	379.59	1,780.02	0.00	0.00	0.00
11,900.00	90.00	359.69	9,742.00	1,882.10	379.05	1,880.02	0.00	0.00	0.00
12,000.00	90.00	359.69	9,742.00	1,982.10	378.51	1,980.02	0.00	0.00	0.00
12,100.00	90.00	359.69	9,742.00	2,082.10	377.96	2,080.02	0.00	0.00	0.00
12,200.00	90.00	359.69	9,742.00	2,182.09	377.42	2,180.02	0.00	0.00	0.00
12,300.00	90.00	359.69	9,742.00	2,282.09	376.88	2,280.02	0.00	0.00	0.00
12,400.00	90.00	359.69	9,742.00	2,382.09	376.34	2,380.02	0.00	0.00	0.00
12,500.00	90.00	359.69	9,742.00	2,482.09	375.80	2,480.02	0.00	0.00	0.00
12,600.00	90.00	359.69	9,742.00	2,582.09	375.25	2,580.02	0.00	0.00	0.00
12,700.00	90.00	359.69	9,742.00	2,682.09	374.71	2,680.02	0.00	0.00	0.00
12,800.00	90.00	359.69	9,742.00	2,782.09	374.17	2,780.02	0.00	0.00	0.00
12,900.00	90.00	359.69	9,742.00	2,882.08	373.63	2,880.02	0.00	0.00	0.00
13,000.00	90.00	359.69	9,742.00	2,982.08	373.08	2,980.02	0.00	0.00	0.00
13,100.00	90.00	359.69	9,742.00	3,082.08	372.54	3,080.02	0.00	0.00	0.00
13,200.00	90.00	359.69	9,742.00	3,182.08	372.00	3,180.02	0.00	0.00	0.00
13,300.00	90.00	359.69	9,742.00	3,282.08	371.46	3,280.02	0.00	0.00	0.00
13,400.00	90.00	359.69	9,742.00	3,382.08	370.92	3,380.02	0.00	0.00	0.00
13,500.00	90.00	359.69	9,742.00	3,482.08	370.37	3,480.02	0.00	0.00	0.00
13,600.00	90.00	359.69	9,742.00	3,582.07	369.83	3,580.02	0.00	0.00	0.00
13,700.00	90.00	359.69	9,742.00	3,682.07	369.29	3,680.02	0.00	0.00	0.00
13,800.00	90.00	359.69	9,742.00	3,782.07	368.75	3,780.02	0.00	0.00	0.00
13,900.00	90.00	359.69	9,742.00	3,882.07	368.20	3,880.02	0.00	0.00	0.00
14,000.00	90.00	359.69	9,742.00	3,982.07	367.66	3,980.02	0.00	0.00	0.00
14,100.00	90.00	359.69	9,742.00	4,082.07	367.12	4,080.02	0.00	0.00	0.00
14,200.00	90.00	359.69	9,742.00	4,182.07	366.58	4,180.02	0.00	0.00	0.00
14,300.00	90.00	359.69	9,742.00	4,282.06	366.04	4,280.02	0.00	0.00	0.00
14,400.00	90.00	359.69	9,742.00	4,382.06	365.49	4,380.02	0.00	0.00	0.00
14,500.00	90.00	359.69	9,742.00	4,482.06	364.95	4,480.02	0.00	0.00	0.00
14,600.00	90.00	359.69	9,742.00	4,582.06	364.41	4,580.02	0.00	0.00	0.00
14,700.00	90.00	359.69	9,742.00	4,682.06	363.87	4,680.02	0.00	0.00	0.00
14,800.00	90.00	359.69	9,742.00	4,782.06	363.32	4,780.02	0.00	0.00	0.00
14,900.00	90.00	359.69	9,742.00	4,882.05	362.78	4,880.02	0.00	0.00	0.00
15,000.00	90.00	359.69	9,742.00	4,982.05	362.24	4,980.02	0.00	0.00	0.00
15,100.00	90.00	359.69	9,742.00	5,082.05	361.70	5,080.02	0.00	0.00	0.00
15,200.00	90.00	359.69	9,742.00	5,182.05	361.15	5,180.02	0.00	0.00	0.00
15,300.00	90.00	359.69	9,742.00	5,282.05	360.61	5,280.02	0.00	0.00	0.00
15,400.00	90.00	359.69	9,742.00	5,382.05	360.07	5,380.02	0.00	0.00	0.00
15,500.00	90.00	359.69	9,742.00	5,482.05	359.53	5,480.02	0.00	0.00	0.00
15,600.00	90.00	359.69	9,742.00	5,582.04	358.99	5,580.02	0.00	0.00	0.00
15,700.00	90.00	359.69	9,742.00	5,682.04	358.44	5,680.02	0.00	0.00	0.00
15,800.00	90.00	359.69	9,742.00	5,782.04	357.90	5,780.02	0.00	0.00	0.00
15,900.00	90.00	359.69	9,742.00	5,882.04	357.36	5,880.02	0.00	0.00	0.00
16,000.00	90.00	359.69	9,742.00	5,982.04	356.82	5,980.02	0.00	0.00	0.00
16,100.00	90.00	359.69	9,742.00	6,082.04	356.27	6,080.02	0.00	0.00	0.00
16,200.00	90.00	359.69	9,742.00	6,182.04	355.73	6,180.02	0.00	0.00	0.00
16,300.00	90.00	359.69	9,742.00	6,282.03	355.19	6,280.02	0.00	0.00	0.00
16,400.00	90.00	359.69	9,742.00	6,382.03	354.65	6,380.02	0.00	0.00	0.00



MS Directional Planning Report



Database:	TRG_EDMConroe	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Company:	Civitas Permian Operating, LLC	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Project:	Lea County, New Mexico (NAD 83)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site:	Double Stamp W2-1 (111H,115H,121H,125H)	North Reference:	Grid
Well:	Double Stamp Fed Com 121H	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)
16,500.00	90.00	359.69	9,742.00	6,482.03	354.11	6,480.02	0.00	0.00	0.00
16,600.00	90.00	359.69	9,742.00	6,582.03	353.56	6,580.02	0.00	0.00	0.00
16,700.00	90.00	359.69	9,742.00	6,682.03	353.02	6,680.02	0.00	0.00	0.00
16,800.00	90.00	359.69	9,742.00	6,782.03	352.48	6,780.02	0.00	0.00	0.00
16,900.00	90.00	359.69	9,742.00	6,882.03	351.94	6,880.02	0.00	0.00	0.00
17,000.00	90.00	359.69	9,742.00	6,982.02	351.39	6,980.02	0.00	0.00	0.00
17,100.00	90.00	359.69	9,742.00	7,082.02	350.85	7,080.02	0.00	0.00	0.00
17,200.00	90.00	359.69	9,742.00	7,182.02	350.31	7,180.02	0.00	0.00	0.00
17,300.00	90.00	359.69	9,742.00	7,282.02	349.77	7,280.02	0.00	0.00	0.00
17,400.00	90.00	359.69	9,742.00	7,382.02	349.23	7,380.02	0.00	0.00	0.00
17,500.00	90.00	359.69	9,742.00	7,482.02	348.68	7,480.02	0.00	0.00	0.00
17,600.00	90.00	359.69	9,742.00	7,582.02	348.14	7,580.02	0.00	0.00	0.00
17,700.00	90.00	359.69	9,742.00	7,682.01	347.60	7,680.02	0.00	0.00	0.00
17,800.00	90.00	359.69	9,742.00	7,782.01	347.06	7,780.02	0.00	0.00	0.00
17,900.00	90.00	359.69	9,742.00	7,882.01	346.51	7,880.02	0.00	0.00	0.00
18,000.00	90.00	359.69	9,742.00	7,982.01	345.97	7,980.02	0.00	0.00	0.00
18,100.00	90.00	359.69	9,742.00	8,082.01	345.43	8,080.02	0.00	0.00	0.00
18,200.00	90.00	359.69	9,742.00	8,182.01	344.89	8,180.02	0.00	0.00	0.00
18,300.00	90.00	359.69	9,742.00	8,282.01	344.34	8,280.02	0.00	0.00	0.00
18,400.00	90.00	359.69	9,742.00	8,382.00	343.80	8,380.02	0.00	0.00	0.00
18,500.00	90.00	359.69	9,742.00	8,482.00	343.26	8,480.02	0.00	0.00	0.00
18,600.00	90.00	359.69	9,742.00	8,582.00	342.72	8,580.02	0.00	0.00	0.00
18,700.00	90.00	359.69	9,742.00	8,682.00	342.18	8,680.02	0.00	0.00	0.00
18,800.00	90.00	359.69	9,742.00	8,782.00	341.63	8,780.02	0.00	0.00	0.00
18,900.00	90.00	359.69	9,742.00	8,882.00	341.09	8,880.02	0.00	0.00	0.00
19,000.00	90.00	359.69	9,742.00	8,981.99	340.55	8,980.02	0.00	0.00	0.00
19,100.00	90.00	359.69	9,742.00	9,081.99	340.01	9,080.02	0.00	0.00	0.00
19,200.00	90.00	359.69	9,742.00	9,181.99	339.46	9,180.02	0.00	0.00	0.00
19,300.00	90.00	359.69	9,742.00	9,281.99	338.92	9,280.02	0.00	0.00	0.00
19,400.00	90.00	359.69	9,742.00	9,381.99	338.38	9,380.02	0.00	0.00	0.00
19,500.00	90.00	359.69	9,742.00	9,481.99	337.84	9,480.02	0.00	0.00	0.00
19,600.00	90.00	359.69	9,742.00	9,581.99	337.30	9,580.02	0.00	0.00	0.00
19,700.00	90.00	359.69	9,742.00	9,681.98	336.75	9,680.02	0.00	0.00	0.00
19,800.00	90.00	359.69	9,742.00	9,781.98	336.21	9,780.02	0.00	0.00	0.00
19,900.00	90.00	359.69	9,742.00	9,881.98	335.67	9,880.02	0.00	0.00	0.00
20,000.00	90.00	359.69	9,742.00	9,981.98	335.13	9,980.02	0.00	0.00	0.00
20,032.45	90.00	359.69	9,742.00	10,014.42	334.95	10,012.47	0.00	0.00	0.00
PBHL									



MS Directional Planning Report



Database:	TRG_EDMConroe	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Company:	Civitas Permian Operating, LLC	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Project:	Lea County, New Mexico (NAD 83)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site:	Double Stamp W2-1 (111H,115H,121H,125H)	North Reference:	Grid
Well:	Double Stamp Fed Com 121H	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 - plan misses target center by 113.91usft at 9196.11usft MD (9169.06 TVD, -487.88 N, 279.00 E) - Point	0.00	0.00	9,169.04	-497.53	392.50	570,176.51	724,420.38	32.566066	-103.739045
FTP v1_Double Stam - plan misses target center by 107.38usft at 9419.26usft MD (9386.62 TVD, -445.38 N, 284.97 E) - Point	0.00	0.00	9,381.22	-447.54	392.20	570,226.51	724,420.08	32.566203	-103.739045
LTP v1_Double Stam - plan misses target center by 0.01usft at 19937.44usft MD (9742.00 TVD, 9919.43 N, 335.47 E) - Point	0.00	0.00	9,742.00	9,919.43	335.46	580,593.47	724,363.34	32.594699	-103.739042
PBHL v1 Double Star - plan hits target center - Rectangle (sides W100.00 H10,454.00 D30.00)	0.00	359.69	9,742.00	10,014.42	334.95	580,688.47	724,362.83	32.594960	-103.739041

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,507.32	1,505.70	Rustler			
1,768.91	1,766.00	Salado			
2,939.70	2,931.00	Yates			
3,581.38	3,569.50	Capitan Reef Complex			
4,657.80	4,640.60	DMG			
7,446.24	7,419.20	Brushy Canyon			
7,771.64	7,744.60	Bone Spring			
7,829.14	7,802.10	Upper Avalon			
8,237.34	8,210.30	Middle Avalon			
8,571.64	8,544.60	Lower Avalon			
8,798.04	8,771.00	1st Bone Spring Sand			
9,129.34	9,102.30	2nd Bone Spring Carb			
9,609.49	9,547.50	2nd Bone Spring Sand			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
800.00	800.00	0.00	0.00	KOP, 1.00°/100' Build
1,370.13	1,369.19	-24.60	14.07	Hold 5.70° Inc, 150.24° Azm
6,456.91	6,430.81	-463.28	264.93	Begin 1.00°/100' Drop
7,027.04	7,000.00	-487.88	279.00	Begin Vertical Hold
9,196.08	9,169.04	-487.88	279.00	Begin 10.00°/100' Build
10,096.08	9,742.00	79.50	358.74	Hold 90.00° Inc, Begin 2°/100' Turn
10,511.62	9,742.00	493.74	386.58	Hold 359.69° Azm
20,032.45	9,742.00	10,014.42	334.95	PBHL



CIVITAS

Civitas Permian Operating, LLC

**Lea County, New Mexico (NAD 83)
Double Stamp W2-1 (111H,115H,121H,125H)
Double Stamp Fed Com 121H**

**Wellbore #1
Design #1**

Anticollision Report

08 January, 2025





Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

Reference	Design #1
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	MD + Stations Interval 100.00usft
Depth Range:	Unlimited
Results Limited by:	Maximum centre distance of 10,000.00usft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Pedal Curve
Casing Method:	Not applied

Survey Tool Program		Date	1/8/2025		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	20,032.45	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 - Mock Surveys (from	1,261.16	1,244.42	621.23	612.62	72.131	CC
Belco AIA Federal 2H - Wellbore #1 - Mock Surveys (from	2,100.00	2,085.54	624.95	610.36	42.827	ES
Belco AIA Federal 2H - Wellbore #1 - Mock Surveys (from	4,600.00	4,540.00	720.77	688.48	22.321	SF
Belco AIA Federal 2H - Wellbore #1 - Surveys	4,465.63	4,467.00	712.81	696.96	44.975	CC, ES
Belco AIA Federal 2H - Wellbore #1 - Surveys	5,000.00	4,832.00	786.39	766.96	40.482	SF
Belco AIA Federal 3H - Wellbore #1 - Surveys	1,491.57	1,500.00	2,358.08	2,352.94	459.435	CC
Belco AIA Federal 3H - Wellbore #1 - Surveys	1,500.00	1,500.00	2,358.09	2,352.93	456.793	ES
Belco AIA Federal 3H - Wellbore #1 - Surveys	5,100.00	4,589.00	2,544.65	2,516.11	89.171	SF
Belco AIA Federal 4H - Wellbore #1 - Surveys	5,120.71	5,451.73	193.75	156.61	5.217	CC, ES, SF
Queenie 15 1H - Wellbore #1 - Surveys	0.00	0.00	866.69			
Queenie 15 1H - Wellbore #1 - Surveys	2,400.00	2,409.80	877.61	863.38	61.647	ES
Queenie 15 1H - Wellbore #1 - Surveys	3,800.00	3,644.83	965.20	942.51	42.533	SF
Double Stamp E2-1 (113H,116H,123H,124H,126H)						
Double Stamp Fed Com 113H - Wellbore #1 - Design #1	1,857.98	1,805.46	1,169.16	1,156.50	92.354	CC
Double Stamp Fed Com 113H - Wellbore #1 - Design #1	8,500.00	8,496.24	1,181.85	1,121.85	19.696	ES
Double Stamp Fed Com 113H - Wellbore #1 - Design #1	20,032.45	19,202.47	1,371.69	1,208.08	8.384	SF
Double Stamp Fed Com 116H - Wellbore #1 - Design #1	2,024.95	1,973.81	1,177.42	1,163.45	84.294	CC, ES
Double Stamp Fed Com 116H - Wellbore #1 - Design #1	20,032.45	19,424.45	2,435.76	2,251.17	13.195	SF
Double Stamp Fed Com 123H - Wellbore #1 - Design #1	20,032.45	20,025.50	980.58	789.37	5.128	CC, ES, SF
Double Stamp Fed Com 124H - Wellbore #1 - Design #1	1,559.82	1,500.00	1,280.00	1,269.41	120.892	CC
Double Stamp Fed Com 124H - Wellbore #1 - Design #1	1,600.00	1,533.61	1,280.10	1,269.26	118.068	ES
Double Stamp Fed Com 124H - Wellbore #1 - Design #1	20,032.45	20,141.68	1,972.24	1,781.33	10.331	SF
Double Stamp Fed Com 126H - Wellbore #1 - Design #1	465.99	467.99	1,214.34	1,211.18	384.524	CC
Double Stamp Fed Com 126H - Wellbore #1 - Design #1	600.00	587.75	1,214.94	1,210.88	299.581	ES
Double Stamp Fed Com 126H - Wellbore #1 - Design #1	20,032.45	20,347.30	2,961.45	2,770.27	15.490	SF
Double Stamp W2-1 (111H,115H,121H,125H)						
Double Stamp Fed Com 111H - Wellbore #1 - Design #1	800.00	800.00	25.00	19.45	4.508	CC
Double Stamp Fed Com 111H - Wellbore #1 - Design #1	900.00	900.17	25.41	19.17	4.075	ES
Double Stamp Fed Com 111H - Wellbore #1 - Design #1	1,000.00	1,000.14	27.25	20.34	3.946	SF
Double Stamp Fed Com 115H - Wellbore #1 - Design #1	800.00	800.00	35.36	29.81	6.375	CC
Double Stamp Fed Com 115H - Wellbore #1 - Design #1	900.00	899.99	35.59	29.35	5.699	ES
Double Stamp Fed Com 115H - Wellbore #1 - Design #1	8,500.00	8,495.41	217.50	157.68	3.636	SF
Double Stamp Fed Com 125H - Wellbore #1 - Design #1	1,177.18	1,176.91	21.70	13.53	2.657	CC
Double Stamp Fed Com 125H - Wellbore #1 - Design #1	1,200.00	1,199.68	21.76	13.43	2.613	ES
Double Stamp Fed Com 125H - Wellbore #1 - Design #1	1,300.00	1,299.76	22.81	13.79	2.530	SF

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

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

Survey Program: 0-MWD		Offset		Semi Major Axis		Azimuth from North (°)	Offset Wellbore Centre		Rule Assigned: Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	25.50	0.00	0.00	-110.787	-222.60	-586.41	627.75				
100.00	100.00	75.06	100.56	0.26	0.13	-110.787	-222.59	-586.37	627.20	626.80	0.40	1,575.599	
200.00	200.00	175.81	201.31	0.62	0.45	-110.788	-222.55	-586.23	627.05	625.98	1.07	584.401	
300.00	300.00	276.56	302.06	0.98	0.81	-110.790	-222.47	-585.97	626.78	624.99	1.79	349.643	
400.00	400.00	377.31	402.81	1.34	1.17	-110.793	-222.36	-585.59	626.39	623.88	2.51	249.332	
500.00	500.00	478.06	503.56	1.70	1.53	-110.797	-222.22	-585.10	625.89	622.65	3.23	193.656	
600.00	600.00	578.81	604.31	2.06	1.90	-110.801	-222.04	-584.49	625.26	621.30	3.95	158.229	
700.00	700.00	679.56	705.05	2.41	2.26	-110.806	-221.82	-583.76	624.51	619.84	4.67	133.692	
800.00	800.00	780.30	805.79	2.77	2.62	-110.812	-221.57	-582.92	623.64	618.25	5.39	115.684	
900.00	899.99	881.04	906.53	3.11	2.98	-110.740	-221.29	-581.96	622.79	616.69	6.09	102.198	
1,000.00	999.96	981.76	1,007.23	3.45	3.34	-110.509	-220.97	-580.89	622.09	615.31	6.79	91.683	
1,100.00	1,099.86	1,082.41	1,107.88	3.78	3.70	-110.120	-220.62	-579.70	621.58	614.10	7.48	83.080	
1,200.00	1,199.68	1,182.98	1,208.44	4.12	4.06	-109.573	-220.23	-578.40	621.28	613.10	8.18	75.932	
1,261.16	1,260.66	1,244.42	1,269.88	4.33	4.28	-109.161	-219.98	-577.54	621.23	612.62	8.61	72.131 CC	
1,300.00	1,299.37	1,283.43	1,308.88	4.47	4.42	-108.868	-219.81	-576.98	621.25	612.37	8.89	69.915	
1,370.13	1,369.19	1,353.79	1,379.23	4.71	4.68	-108.280	-219.50	-575.92	621.42	612.04	9.38	66.243	
1,400.00	1,398.91	1,383.74	1,409.18	4.81	4.78	-108.014	-219.36	-575.45	621.54	611.94	9.59	64.795	
1,500.00	1,498.42	1,484.01	1,509.43	5.16	5.14	-107.122	-218.87	-573.80	621.93	611.63	10.30	60.373	
1,600.00	1,597.92	1,584.29	1,609.69	5.51	5.50	-106.231	-218.35	-572.04	622.36	611.35	11.01	56.511	
1,700.00	1,697.43	1,684.56	1,709.95	5.87	5.86	-105.341	-217.80	-570.16	622.82	611.09	11.73	53.112	
1,800.00	1,796.93	1,784.84	1,810.21	6.22	6.23	-104.453	-217.21	-568.17	623.30	610.86	12.44	50.099	
1,900.00	1,896.44	1,885.12	1,910.46	6.58	6.59	-103.565	-216.58	-566.07	623.82	610.67	13.16	47.411	
2,000.00	1,995.94	1,985.39	2,010.71	6.94	6.95	-102.679	-215.92	-563.85	624.37	610.50	13.87	45.000	
2,100.00	2,095.45	2,085.54	2,110.83	7.30	7.31	-101.793	-215.23	-561.51	624.95	610.36	14.59	42.827 ES	
2,200.00	2,194.95	2,184.34	2,209.60	7.66	7.66	-100.908	-214.54	-559.23	625.70	610.40	15.31	40.878	
2,300.00	2,294.46	2,283.14	2,308.37	8.02	8.02	-100.024	-213.86	-557.07	626.72	610.69	16.02	39.119	
2,400.00	2,393.97	2,381.93	2,407.13	8.38	8.37	-99.143	-213.18	-555.02	627.99	611.26	16.74	37.525	
2,500.00	2,493.47	2,480.71	2,505.89	8.74	8.73	-98.264	-212.51	-553.09	629.54	612.09	17.45	36.075	
2,600.00	2,592.98	2,579.49	2,604.65	9.11	9.08	-97.389	-211.84	-551.28	631.35	613.18	18.17	34.755	
2,700.00	2,692.48	2,678.26	2,703.41	9.47	9.44	-96.518	-211.19	-549.58	633.42	614.54	18.88	33.547	
2,800.00	2,791.99	2,777.02	2,802.16	9.83	9.79	-95.654	-210.54	-547.99	635.75	616.16	19.60	32.442	
2,900.00	2,891.49	2,875.78	2,900.90	10.20	10.15	-94.795	-209.89	-546.53	638.35	618.04	20.31	31.427	
3,000.00	2,991.00	2,974.53	2,999.64	10.56	10.50	-93.944	-209.25	-545.18	641.20	620.18	21.03	30.493	
3,100.00	3,090.50	3,073.28	3,098.38	10.92	10.86	-93.100	-208.62	-543.95	644.32	622.57	21.74	29.633	
3,200.00	3,190.01	3,172.02	3,197.11	11.29	11.21	-92.265	-208.00	-542.83	647.69	625.23	22.46	28.840	
3,300.00	3,289.51	3,270.75	3,295.83	11.65	11.56	-91.439	-207.38	-541.83	651.31	628.14	23.17	28.106	
3,400.00	3,389.02	3,369.47	3,394.55	12.02	11.92	-90.623	-206.77	-540.94	655.18	631.29	23.89	27.428	
3,500.00	3,488.52	3,468.18	3,493.25	12.38	12.27	-89.817	-206.17	-540.18	659.30	634.70	24.60	26.799	
3,600.00	3,588.03	3,566.88	3,591.95	12.75	12.62	-89.022	-205.57	-539.52	663.67	638.36	25.32	26.216	
3,700.00	3,687.53	3,665.58	3,690.65	13.11	12.97	-88.238	-204.98	-538.99	668.28	642.25	26.03	25.675	
3,800.00	3,787.04	3,764.26	3,789.33	13.48	13.33	-87.467	-204.40	-538.57	673.13	646.39	26.74	25.173	
3,900.00	3,886.55	3,862.94	3,888.00	13.85	13.67	-86.708	-203.82	-538.27	678.22	650.77	27.45	24.707	
4,000.00	3,986.05	3,961.61	3,986.67	14.21	14.02	-85.961	-203.26	-538.08	683.54	655.38	28.16	24.275	
4,100.00	4,085.56	4,060.27	4,085.32	14.58	14.37	-85.228	-202.69	-538.01	689.09	660.23	28.86	23.874	
4,200.00	4,185.06	4,158.91	4,183.97	14.94	14.71	-84.508	-202.14	-538.05	694.87	665.30	29.57	23.502	
4,300.00	4,284.57	4,257.55	4,282.61	15.31	15.05	-83.801	-201.59	-538.21	700.87	670.61	30.27	23.157	
4,400.00	4,384.07	4,356.17	4,381.23	15.68	15.39	-83.108	-201.05	-538.49	707.09	676.13	30.96	22.836	
4,500.00	4,483.58	4,454.81	4,479.86	16.04	15.72	-82.429	-200.51	-538.88	713.53	681.87	31.66	22.538	
4,600.00	4,583.08	4,540.00	4,564.91	16.41	16.02	-81.488	-199.49	-539.25	720.77	688.48	32.29	22.321 SF	

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

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

Survey Program: 0-MWD														Offset Site Error:	0.00 usft
Rule Assigned:														Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	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		
4,700.00	4,682.59	4,606.72	4,630.53	16.78	16.25	-79.979	-184.71	-540.73	732.00	699.22	32.78	22.330			
4,800.00	4,782.09	4,688.39	4,709.18	17.14	16.53	-77.773	-162.96	-543.29	746.93	713.60	33.33	22.409			
4,900.00	4,881.60	4,767.49	4,784.00	17.51	16.81	-75.373	-137.44	-545.89	764.88	731.04	33.84	22.603			
5,000.00	4,981.10	4,832.00	4,844.46	17.88	17.05	-73.302	-115.12	-548.72	786.42	752.25	34.17	23.012			
5,100.00	5,080.61	4,875.00	4,883.79	18.24	17.21	-71.682	-98.03	-551.75	813.94	779.75	34.19	23.807			
5,200.00	5,180.11	4,909.85	4,914.36	18.61	17.35	-70.188	-81.71	-555.34	848.67	814.70	33.98	24.979			
5,300.00	5,279.62	4,938.11	4,937.95	18.98	17.46	-68.837	-66.61	-559.03	890.52	856.97	33.56	26.537			
5,400.00	5,379.12	4,960.00	4,955.46	19.34	17.55	-67.688	-53.95	-562.53	939.09	906.12	32.96	28.490			
5,500.00	5,478.63	4,992.00	4,979.82	19.71	17.69	-66.210	-34.12	-568.58	993.61	961.11	32.50	30.569			
5,600.00	5,578.14	5,014.57	4,996.12	20.08	17.79	-65.053	-19.19	-573.15	1,053.14	1,021.26	31.89	33.027			
5,700.00	5,677.64	5,042.71	5,015.44	20.44	17.92	-63.700	0.50	-578.70	1,116.89	1,085.50	31.39	35.583			
5,800.00	5,777.15	5,065.63	5,030.36	20.81	18.03	-62.533	17.34	-583.04	1,184.32	1,153.48	30.83	38.408			
5,900.00	5,876.65	5,087.00	5,043.43	21.18	18.14	-61.427	33.77	-587.02	1,255.25	1,224.95	30.30	41.424			
6,000.00	5,976.16	5,100.00	5,050.95	21.54	18.20	-60.640	44.09	-589.45	1,329.28	1,299.59	29.69	44.775			
6,100.00	6,075.66	5,109.49	5,056.21	21.91	18.25	-59.994	51.78	-591.25	1,406.06	1,376.98	29.08	48.349			
6,200.00	6,175.17	5,120.00	5,061.82	22.28	18.31	-59.324	60.44	-593.27	1,485.27	1,456.71	28.56	52.012			
6,300.00	6,274.67	5,120.00	5,061.82	22.65	18.31	-59.041	60.44	-593.27	1,566.71	1,538.77	27.94	56.077			
6,400.00	6,374.18	5,130.17	5,066.92	23.01	18.36	-58.408	68.98	-595.35	1,649.93	1,622.39	27.54	59.918			
6,456.91	6,430.81	5,140.00	5,071.48	23.22	18.42	-57.915	77.42	-597.52	1,698.22	1,670.83	27.39	62.002			
6,500.00	6,473.70	5,140.00	5,071.48	23.38	18.42	-57.806	77.42	-597.52	1,734.88	1,707.69	27.18	63.820			
6,600.00	6,573.35	5,140.00	5,071.48	23.75	18.42	-57.589	77.42	-597.52	1,820.51	1,793.77	26.74	68.085			
6,700.00	6,673.13	5,140.00	5,071.48	24.11	18.42	-57.419	77.42	-597.52	1,906.82	1,880.48	26.34	72.403			
6,800.00	6,773.02	5,149.00	5,075.32	24.47	18.47	-56.996	85.27	-599.66	1,993.58	1,967.49	26.09	76.425			
6,900.00	6,872.97	5,150.00	5,075.73	24.82	18.47	-56.886	86.15	-599.91	2,080.73	2,054.96	25.77	80.750			
7,000.00	6,972.96	5,150.00	5,075.73	25.18	18.47	-56.852	86.15	-599.91	2,168.26	2,142.79	25.47	85.122			
7,027.04	7,000.00	5,150.00	5,075.73	25.27	18.47	-56.851	86.15	-599.91	2,191.99	2,166.59	25.40	86.313			
7,100.00	7,072.96	5,150.00	5,075.73	25.51	18.47	-56.851	86.15	-599.91	2,256.31	2,231.10	25.21	89.516			
7,200.00	7,172.96	5,163.25	5,080.79	25.83	18.55	-56.415	97.94	-603.22	2,344.92	2,319.80	25.12	93.336			
7,300.00	7,272.96	5,175.00	5,084.75	26.16	18.61	-56.029	108.58	-606.24	2,434.68	2,409.62	25.06	97.172			
7,400.00	7,372.96	5,175.00	5,084.75	26.48	18.61	-56.029	108.58	-606.24	2,524.93	2,500.03	24.90	101.406			
7,500.00	7,472.96	5,175.00	5,084.75	26.81	18.61	-56.029	108.58	-606.24	2,615.90	2,591.12	24.78	105.577			
7,600.00	7,572.96	5,175.00	5,084.75	27.14	18.61	-56.029	108.58	-606.24	2,707.50	2,682.82	24.69	109.676			
7,700.00	7,672.96	5,180.00	5,086.29	27.47	18.64	-55.865	113.15	-607.55	2,799.65	2,774.98	24.67	113.492			
7,800.00	7,772.96	5,180.00	5,086.29	27.79	18.64	-55.865	113.15	-607.55	2,892.30	2,867.67	24.63	117.427			
7,900.00	7,872.96	5,190.16	5,089.27	28.12	18.70	-55.534	122.49	-610.24	2,985.34	2,960.63	24.70	120.854			
8,000.00	7,972.96	5,200.00	5,092.03	28.46	18.76	-55.219	131.56	-612.88	3,078.78	3,053.99	24.79	124.204			
8,100.00	8,072.96	5,200.00	5,092.03	28.79	18.76	-55.219	131.56	-612.88	3,172.55	3,147.73	24.81	127.861			
8,200.00	8,172.96	5,212.00	5,095.26	29.12	18.84	-54.839	142.65	-616.13	3,266.66	3,241.71	24.95	130.934			
8,300.00	8,272.96	5,212.00	5,095.26	29.45	18.84	-54.839	142.65	-616.13	3,361.04	3,336.03	25.01	134.399			
8,400.00	8,372.96	5,212.00	5,095.26	29.78	18.84	-54.839	142.65	-616.13	3,455.74	3,430.66	25.08	137.768			
8,500.00	8,472.96	5,218.23	5,096.85	30.12	18.88	-54.644	148.43	-617.84	3,550.68	3,525.46	25.22	140.791			
8,600.00	8,572.96	5,225.00	5,098.47	30.45	18.92	-54.434	154.72	-619.70	3,645.91	3,620.54	25.37	143.702			
8,700.00	8,672.96	5,225.00	5,098.47	30.79	18.92	-54.434	154.72	-619.70	3,741.33	3,715.84	25.49	146.786			
8,800.00	8,772.96	5,225.00	5,098.47	31.12	18.92	-54.434	154.72	-619.70	3,836.98	3,811.36	25.62	149.775			
8,900.00	8,872.96	5,225.00	5,098.47	31.46	18.92	-54.434	154.72	-619.70	3,932.85	3,907.09	25.76	152.670			
9,000.00	8,972.96	5,225.00	5,098.47	31.80	18.92	-54.434	154.72	-619.70	4,028.92	4,003.01	25.91	155.474			
9,100.00	9,072.96	5,225.00	5,098.47	32.13	18.92	-54.434	154.72	-619.70	4,125.18	4,099.10	26.08	158.187			
9,196.08	9,169.04	5,234.76	5,100.64	32.46	18.98	-54.133	163.85	-622.41	4,217.72	4,191.41	26.30	160.347			
9,200.00	9,172.96	5,234.84	5,100.66	32.47	18.98	-54.131	163.92	-622.43	4,221.49	4,195.18	26.31	160.446			
9,250.00	9,222.88	5,243.00	5,102.31	32.64	19.03	-53.995	171.58	-624.70	4,269.42	4,242.98	26.44	161.459			
9,300.00	9,272.39	5,243.00	5,102.31	32.80	19.03	-54.307	171.58	-624.70	4,316.40	4,289.88	26.52	162.783			

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

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

Survey Program:		0-MWD								Rule Assigned:				Offset Well Error:		0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset +N/-S (usft)	Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning				
9,350.00	9,321.11	5,243.00	5,102.31	32.96	19.03	-54.817	171.58	-624.70	4,362.18	4,335.60	26.58	164.106					
9,400.00	9,368.68	5,243.00	5,102.31	33.12	19.03	-55.527	171.58	-624.70	4,406.46	4,379.82	26.64	165.419					
9,450.00	9,414.73	5,243.00	5,102.31	33.26	19.03	-56.438	171.58	-624.70	4,448.95	4,422.27	26.69	166.713					
9,500.00	9,458.90	5,260.12	5,105.57	33.40	19.15	-56.975	187.71	-629.44	4,489.31	4,462.49	26.82	167.369					
9,550.00	9,500.88	5,275.00	5,108.33	33.53	19.25	-57.761	201.76	-633.51	4,527.28	4,500.34	26.94	168.077					
9,600.00	9,540.32	5,275.00	5,108.33	33.65	19.25	-59.241	201.76	-633.51	4,562.64	4,535.68	26.96	169.257					
9,650.00	9,576.94	5,292.42	5,111.40	33.77	19.37	-60.278	218.24	-638.22	4,595.11	4,568.04	27.07	169.757					
9,700.00	9,610.46	5,307.00	5,113.82	33.87	19.48	-61.572	232.07	-642.15	4,624.59	4,597.43	27.16	170.295					
9,750.00	9,640.61	5,307.00	5,113.82	33.96	19.48	-63.578	232.07	-642.15	4,650.86	4,623.70	27.16	171.250					
9,800.00	9,667.18	5,338.00	5,118.61	34.05	19.71	-64.504	261.59	-650.30	4,673.71	4,646.38	27.33	171.027					
9,850.00	9,689.96	5,338.00	5,118.61	34.13	19.71	-66.794	261.59	-650.30	4,693.03	4,665.70	27.32	171.765					
9,900.00	9,708.77	5,350.00	5,120.32	34.20	19.80	-68.712	273.05	-653.44	4,708.76	4,681.38	27.38	171.958					
9,950.00	9,723.48	5,350.00	5,120.32	34.27	19.80	-71.256	273.05	-653.44	4,720.87	4,693.49	27.38	172.417					
10,000.00	9,733.96	5,370.00	5,122.85	34.32	19.96	-72.987	292.11	-658.93	4,729.22	4,701.73	27.49	172.046					
10,050.00	9,740.15	5,370.00	5,122.85	34.37	19.96	-75.677	292.11	-658.93	4,733.79	4,706.29	27.49	172.176					
10,096.08	9,742.00	5,370.00	5,122.85	34.41	19.96	-78.200	292.11	-658.93	4,734.70	4,707.19	27.51	172.132					
10,100.00	9,742.00	5,370.00	5,122.85	34.41	19.96	-78.415	292.11	-658.93	4,734.64	4,707.14	27.51	172.120					
10,200.00	9,742.00	5,387.04	5,124.60	34.50	20.10	-83.074	308.37	-663.72	4,733.65	4,706.01	27.65	171.223					
10,249.13	9,742.00	5,401.00	5,125.68	34.56	20.21	-85.061	321.74	-667.60	4,733.67	4,705.92	27.75	170.569					
10,300.00	9,742.00	5,401.00	5,125.68	34.62	20.21	-87.842	321.74	-667.60	4,733.84	4,706.04	27.80	170.295					
10,400.00	9,742.00	5,401.00	5,125.68	34.75	20.21	-93.284	321.74	-667.60	4,735.19	4,707.27	27.92	169.612					
10,500.00	9,742.00	5,412.59	5,126.25	34.91	20.31	-98.035	332.85	-670.82	4,737.68	4,709.56	28.12	168.476					
10,511.62	9,742.00	5,413.38	5,126.27	34.93	20.32	-98.609	333.61	-671.04	4,738.05	4,709.91	28.14	168.351					
10,600.00	9,742.00	5,425.00	5,126.44	35.09	20.41	-102.617	344.76	-674.31	4,741.75	4,713.39	28.36	167.203					
10,700.00	9,742.00	5,425.00	5,126.44	35.29	20.41	-107.656	344.76	-674.31	4,747.68	4,719.09	28.59	166.050					
10,800.00	9,742.00	5,433.00	5,126.34	35.51	20.48	-112.036	352.43	-676.58	4,755.62	4,726.72	28.89	164.584					
10,900.00	9,742.00	5,450.00	5,125.76	35.75	20.63	-115.718	368.71	-681.45	4,765.44	4,736.18	29.26	162.844					
11,000.00	9,742.00	5,465.00	5,124.94	36.00	20.76	-119.250	383.04	-685.80	4,777.07	4,747.41	29.66	161.067					
11,100.00	9,742.00	5,540.68	5,120.01	36.28	21.48	-119.883	455.51	-707.03	4,790.03	4,759.75	30.28	158.181					
11,200.00	9,742.00	5,654.00	5,112.28	36.58	22.65	-118.894	564.94	-735.43	4,802.68	4,771.59	31.09	154.470					
11,300.00	9,742.00	6,258.26	5,085.32	36.89	30.07	-95.729	1,161.10	-823.84	4,811.87	4,777.20	34.67	138.791					
11,400.00	9,742.00	6,389.76	5,085.42	37.22	31.85	-94.230	1,292.07	-835.53	4,813.90	4,778.07	35.83	134.362					
11,500.00	9,742.00	6,495.00	5,084.96	37.57	33.29	-93.975	1,397.17	-840.94	4,815.49	4,778.67	36.82	130.777					
11,600.00	9,742.00	6,579.27	5,084.04	37.93	34.46	-94.701	1,481.37	-844.36	4,817.41	4,779.71	37.70	127.798					
11,700.00	9,742.00	6,633.73	5,083.35	38.31	35.22	-96.801	1,535.75	-847.09	4,819.80	4,781.41	38.39	125.536					
11,800.00	9,742.00	6,779.00	5,081.71	38.71	37.29	-94.694	1,680.89	-853.00	4,821.60	4,781.89	39.71	121.420					
11,900.00	9,742.00	6,844.00	5,080.86	39.12	38.24	-96.296	1,745.80	-856.30	4,823.99	4,783.48	40.51	119.075					
12,000.00	9,742.00	6,980.08	5,079.99	39.55	40.24	-94.622	1,881.65	-864.16	4,825.83	4,784.00	41.82	115.384					
12,100.00	9,742.00	7,112.36	5,079.75	39.99	42.21	-93.133	2,013.76	-870.50	4,826.99	4,783.87	43.12	111.933					
12,200.00	9,742.00	7,161.00	5,079.72	40.44	42.94	-95.469	2,062.28	-873.93	4,828.78	4,784.92	43.86	110.092					
12,300.00	9,742.00	7,250.67	5,078.82	40.91	44.31	-95.921	2,151.73	-880.08	4,831.38	4,786.47	44.90	107.596					
12,400.00	9,742.00	7,437.70	5,078.81	41.39	47.20	-91.982	2,338.05	-896.20	4,833.90	4,787.22	46.69	103.542					
12,500.00	9,742.00	7,568.72	5,081.33	41.88	49.25	-90.609	2,468.44	-908.80	4,834.49	4,786.39	48.09	100.530					
12,600.00	9,742.00	7,577.00	5,081.52	42.39	49.38	-94.690	2,476.67	-909.60	4,835.49	4,786.91	48.58	99.532					
12,700.00	9,742.00	7,577.00	5,081.52	42.91	49.38	-99.087	2,476.67	-909.60	4,838.56	4,789.54	49.03	98.693					
12,800.00	9,742.00	7,577.00	5,081.52	43.43	49.38	-103.382	2,476.67	-909.60	4,843.70	4,794.21	49.48	97.887					
12,900.00	9,742.00	7,577.00	5,081.52	43.97	49.38	-107.533	2,476.67	-909.60	4,850.88	4,800.93	49.95	97.115					
13,000.00	9,742.00	7,577.00	5,081.52	44.52	49.38	-111.506	2,476.67	-909.60	4,860.12	4,809.69	50.43	96.383					
13,100.00	9,742.00	7,577.00	5,081.52	45.08	49.38	-115.276	2,476.67	-909.60	4,871.39	4,820.48	50.91	95.691					
13,200.00	9,742.00	7,577.00	5,081.52	45.65	49.38	-118.829	2,476.67	-909.60	4,884.68	4,833.29	51.39	95.043					

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

Offset Design: Double Stamp - Offsets (NAD 83) - Belco AIA Federal 2H - Wellbore #1 - Mock Surveys (from Surface)														Offset Site Error:	0.00 usft
Survey Program: 0-MWD														Offset Well Error:	0.00 usft
Measured Depth (usft)	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)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
13,300.00	9,742.00	7,577.00	5,081.52	46.23	49.38	-122.158	2,476.67	-909.60	4,899.98	4,848.10	51.88	94.440			
13,400.00	9,742.00	7,577.00	5,081.52	46.81	49.38	-125.263	2,476.67	-909.60	4,917.27	4,864.89	52.38	93.883			
13,500.00	9,742.00	7,577.00	5,081.52	47.41	49.38	-128.149	2,476.67	-909.60	4,936.52	4,883.65	52.87	93.375			
13,600.00	9,742.00	7,577.00	5,081.52	48.01	49.38	-130.826	2,476.67	-909.60	4,957.71	4,904.35	53.36	92.914			
13,700.00	9,742.00	7,577.00	5,081.52	48.62	49.38	-133.306	2,476.67	-909.60	4,980.82	4,926.98	53.85	92.503			
13,800.00	9,742.00	7,577.00	5,081.52	49.24	49.38	-135.600	2,476.67	-909.60	5,005.83	4,951.50	54.33	92.140			
13,900.00	9,742.00	7,577.00	5,081.52	49.87	49.38	-137.722	2,476.67	-909.60	5,032.69	4,977.88	54.81	91.827			
14,000.00	9,742.00	7,577.00	5,081.52	50.50	49.38	-139.687	2,476.67	-909.60	5,061.39	5,006.11	55.28	91.562			
14,100.00	9,742.00	7,577.00	5,081.52	51.14	49.38	-141.506	2,476.67	-909.60	5,091.89	5,036.15	55.74	91.345			
14,200.00	9,742.00	7,577.00	5,081.52	51.79	49.38	-143.192	2,476.67	-909.60	5,124.16	5,067.96	56.20	91.176			
14,300.00	9,742.00	7,577.00	5,081.52	52.44	49.38	-144.756	2,476.67	-909.60	5,158.17	5,101.52	56.65	91.053			
14,400.00	9,742.00	7,577.00	5,081.52	53.10	49.38	-146.209	2,476.67	-909.60	5,193.88	5,136.79	57.09	90.977			
14,500.00	9,742.00	7,577.00	5,081.52	53.77	49.38	-147.561	2,476.67	-909.60	5,231.26	5,173.74	57.52	90.945			
14,600.00	9,742.00	7,577.00	5,081.52	54.44	49.38	-148.821	2,476.67	-909.60	5,270.28	5,212.33	57.94	90.958			
14,700.00	9,742.00	7,577.00	5,081.52	55.12	49.38	-149.996	2,476.67	-909.60	5,310.88	5,252.53	58.35	91.013			
14,800.00	9,742.00	7,577.00	5,081.52	55.80	49.38	-151.095	2,476.67	-909.60	5,353.05	5,294.30	58.75	91.110			
14,900.00	9,742.00	7,577.00	5,081.52	56.49	49.38	-152.122	2,476.67	-909.60	5,396.75	5,337.60	59.14	91.248			
15,000.00	9,742.00	7,577.00	5,081.52	57.18	49.38	-153.086	2,476.67	-909.60	5,441.93	5,382.40	59.52	91.424			
15,100.00	9,742.00	7,577.00	5,081.52	57.88	49.38	-153.990	2,476.67	-909.60	5,488.56	5,428.66	59.89	91.639			
15,200.00	9,742.00	7,577.00	5,081.52	58.58	49.38	-154.840	2,476.67	-909.60	5,536.60	5,476.35	60.25	91.891			
15,300.00	9,742.00	7,577.00	5,081.52	59.28	49.38	-155.640	2,476.67	-909.60	5,586.02	5,525.42	60.60	92.179			
15,400.00	9,742.00	7,577.00	5,081.52	59.99	49.38	-156.394	2,476.67	-909.60	5,636.78	5,575.85	60.94	92.501			
15,500.00	9,742.00	7,577.00	5,081.52	60.71	49.38	-157.106	2,476.67	-909.60	5,688.85	5,627.59	61.27	92.856			
15,600.00	9,742.00	7,577.00	5,081.52	61.42	49.38	-157.779	2,476.67	-909.60	5,742.19	5,680.60	61.58	93.244			
15,700.00	9,742.00	7,577.00	5,081.52	62.15	49.38	-158.416	2,476.67	-909.60	5,796.76	5,734.87	61.89	93.662			
15,800.00	9,742.00	7,577.00	5,081.52	62.87	49.38	-159.020	2,476.67	-909.60	5,852.53	5,790.34	62.19	94.111			
15,900.00	9,742.00	7,577.00	5,081.52	63.60	49.38	-159.592	2,476.67	-909.60	5,909.47	5,846.99	62.48	94.588			
16,000.00	9,742.00	7,577.00	5,081.52	64.33	49.38	-160.136	2,476.67	-909.60	5,967.53	5,904.78	62.76	95.092			
16,100.00	9,742.00	7,577.00	5,081.52	65.07	49.38	-160.653	2,476.67	-909.60	6,026.70	5,963.68	63.03	95.624			
16,200.00	9,742.00	7,577.00	5,081.52	65.81	49.38	-161.146	2,476.67	-909.60	6,086.94	6,023.65	63.29	96.181			
16,300.00	9,742.00	7,577.00	5,081.52	66.55	49.38	-161.615	2,476.67	-909.60	6,148.21	6,084.67	63.54	96.762			
16,400.00	9,742.00	7,577.00	5,081.52	67.29	49.38	-162.062	2,476.67	-909.60	6,210.49	6,146.71	63.78	97.367			
16,500.00	9,742.00	7,577.00	5,081.52	68.04	49.38	-162.489	2,476.67	-909.60	6,273.75	6,209.73	64.02	97.995			
16,600.00	9,742.00	7,577.00	5,081.52	68.79	49.38	-162.898	2,476.67	-909.60	6,337.95	6,273.70	64.25	98.644			
16,700.00	9,742.00	7,577.00	5,081.52	69.54	49.38	-163.288	2,476.67	-909.60	6,403.07	6,338.60	64.47	99.315			
16,800.00	9,742.00	7,577.00	5,081.52	70.30	49.38	-163.662	2,476.67	-909.60	6,469.08	6,404.39	64.69	100.005			
16,900.00	9,742.00	7,577.00	5,081.52	71.06	49.38	-164.020	2,476.67	-909.60	6,535.95	6,471.06	64.90	100.715			
17,000.00	9,742.00	7,577.00	5,081.52	71.82	49.38	-164.364	2,476.67	-909.60	6,603.66	6,538.57	65.10	101.443			
17,100.00	9,742.00	7,577.00	5,081.52	72.58	49.38	-164.693	2,476.67	-909.60	6,672.19	6,606.89	65.29	102.189			
17,200.00	9,742.00	7,577.00	5,081.52	73.35	49.38	-165.010	2,476.67	-909.60	6,741.49	6,676.01	65.48	102.952			
17,300.00	9,742.00	7,577.00	5,081.52	74.12	49.38	-165.314	2,476.67	-909.60	6,811.57	6,745.90	65.67	103.730			
17,400.00	9,742.00	7,577.00	5,081.52	74.89	49.38	-165.607	2,476.67	-909.60	6,882.38	6,816.53	65.84	104.525			
17,500.00	9,742.00	7,577.00	5,081.52	75.66	49.38	-165.889	2,476.67	-909.60	6,953.91	6,887.89	66.02	105.334			
17,600.00	9,742.00	7,577.00	5,081.52	76.43	49.38	-166.160	2,476.67	-909.60	7,026.13	6,959.94	66.19	106.158			
17,700.00	9,742.00	7,577.00	5,081.52	77.21	49.38	-166.422	2,476.67	-909.60	7,099.03	7,032.68	66.35	106.995			
17,800.00	9,742.00	7,577.00	5,081.52	77.99	49.38	-166.674	2,476.67	-909.60	7,172.58	7,106.07	66.51	107.845			
17,900.00	9,742.00	7,577.00	5,081.52	78.77	49.38	-166.918	2,476.67	-909.60	7,246.76	7,180.10	66.66	108.708			
18,000.00	9,742.00	7,577.00	5,081.52	79.55	49.38	-167.153	2,476.67	-909.60	7,321.56	7,254.75	66.81	109.582			
18,100.00	9,742.00	7,577.00	5,081.52	80.33	49.38	-167.380	2,476.67	-909.60	7,396.96	7,330.00	66.96	110.468			
18,200.00	9,742.00	7,577.00	5,081.52	81.12	49.38	-167.599	2,476.67	-909.60	7,472.93	7,405.82	67.10	111.364			
18,300.00	9,742.00	7,577.00	5,081.52	81.90	49.38	-167.811	2,476.67	-909.60	7,549.46	7,482.22	67.24	112.271			

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

Offset Design: Double Stamp - Offsets (NAD 83) - Belco AIA Federal 2H - Wellbore #1 - Mock Surveys (from Surface)													Offset Site Error:
													0.00 usft
Survey Program:	Reference	Offset	Semi Major Axis	Azimuth		Offset Wellbore Centre		Rule Assigned:		Minimum	Separation	Warning	Offset Well Error:
Measured	Vertical	Measured	Vertical	Reference	Offset	+N/-S	+E/-W	Between	Between	Separation	Factor		0.00 usft
Depth	Depth	Depth	Depth	(usft)	(usft)	(usft)	(usft)	Centres	Ellipses	(usft)			
(usft)	(usft)	(usft)	(usft)					(usft)	(usft)				
18,400.00	9,742.00	7,577.00	5,081.52	82.69	49.38	-168.017	2,476.67	-909.60	7,626.53	7,559.16	67.38	113.188	
18,500.00	9,742.00	7,577.00	5,081.52	83.48	49.38	-168.216	2,476.67	-909.60	7,704.14	7,636.62	67.51	114.115	
18,600.00	9,742.00	7,577.00	5,081.52	84.27	49.38	-168.408	2,476.67	-909.60	7,782.25	7,714.61	67.64	115.050	
18,700.00	9,742.00	7,577.00	5,081.52	85.07	49.38	-168.595	2,476.67	-909.60	7,860.86	7,793.09	67.77	115.994	
18,800.00	9,742.00	7,577.00	5,081.52	85.86	49.38	-168.776	2,476.67	-909.60	7,939.95	7,872.06	67.89	116.946	
18,900.00	9,742.00	7,577.00	5,081.52	86.66	49.38	-168.952	2,476.67	-909.60	8,019.51	7,951.49	68.02	117.906	
19,000.00	9,742.00	7,577.00	5,081.52	87.46	49.38	-169.122	2,476.67	-909.60	8,099.52	8,031.38	68.14	118.873	
19,100.00	9,742.00	7,577.00	5,081.52	88.25	49.38	-169.287	2,476.67	-909.60	8,179.97	8,111.71	68.25	119.847	
19,200.00	9,742.00	7,577.00	5,081.52	89.05	49.38	-169.448	2,476.67	-909.60	8,260.84	8,192.48	68.37	120.827	
19,300.00	9,742.00	7,577.00	5,081.52	89.85	49.38	-169.604	2,476.67	-909.60	8,342.14	8,273.65	68.48	121.815	
19,400.00	9,742.00	7,577.00	5,081.52	90.66	49.38	-169.756	2,476.67	-909.60	8,423.83	8,355.24	68.59	122.808	
19,500.00	9,742.00	7,577.00	5,081.52	91.46	49.38	-169.903	2,476.67	-909.60	8,505.92	8,437.21	68.70	123.806	
19,600.00	9,742.00	7,577.00	5,081.52	92.26	49.38	-170.047	2,476.67	-909.60	8,588.38	8,519.57	68.81	124.810	
19,700.00	9,742.00	7,577.00	5,081.52	93.07	49.38	-170.186	2,476.67	-909.60	8,671.22	8,602.30	68.92	125.819	
19,800.00	9,742.00	7,577.00	5,081.52	93.88	49.38	-170.322	2,476.67	-909.60	8,754.41	8,685.39	69.02	126.833	
19,900.00	9,742.00	7,577.00	5,081.52	94.69	49.38	-170.454	2,476.67	-909.60	8,837.95	8,768.83	69.13	127.852	
20,000.00	9,742.00	7,577.00	5,081.52	95.49	49.38	-170.583	2,476.67	-909.60	8,921.83	8,852.60	69.23	128.874	
20,032.45	9,742.00	7,577.00	5,081.52	95.76	49.38	-170.625	2,476.67	-909.60	8,949.12	8,879.86	69.26	129.207	

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

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

Survey Program: 4477-MWD										Rule Assigned:		Offset Site Error: 0.00 usft	
Reference										Offset Well Error: 0.00 usft		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	4,467.00	4,492.24	0.00	0.00	-110.401	-200.44	-538.94	4,528.89				
100.00	100.00	4,467.00	4,492.24	0.26	0.00	-110.401	-200.44	-538.94	4,429.72	4,427.44	2.28	1,942.738	
200.00	200.00	4,467.00	4,492.24	0.62	0.00	-110.401	-200.44	-538.94	4,330.58	4,328.30	2.29	1,892.261	
300.00	300.00	4,467.00	4,492.24	0.98	0.00	-110.401	-200.44	-538.94	4,231.49	4,229.19	2.30	1,837.041	
400.00	400.00	4,467.00	4,492.24	1.34	0.00	-110.401	-200.44	-538.94	4,132.44	4,130.12	2.32	1,777.592	
500.00	500.00	4,467.00	4,492.24	1.70	0.00	-110.401	-200.44	-538.94	4,033.44	4,031.08	2.35	1,714.504	
600.00	600.00	4,467.00	4,492.24	2.06	0.00	-110.401	-200.44	-538.94	3,934.48	3,932.10	2.39	1,648.416	
700.00	700.00	4,467.00	4,492.24	2.41	0.00	-110.401	-200.44	-538.94	3,835.59	3,833.16	2.43	1,579.996	
800.00	800.00	4,467.00	4,492.24	2.77	0.00	-110.401	-200.44	-538.94	3,736.75	3,734.27	2.47	1,509.910	
900.00	899.99	4,467.00	4,492.24	3.11	0.00	-110.316	-200.44	-538.94	3,638.00	3,635.47	2.53	1,439.399	
1,000.00	999.96	4,467.00	4,492.24	3.45	0.00	-110.059	-200.44	-538.94	3,539.40	3,536.81	2.59	1,369.067	
1,100.00	1,099.86	4,467.00	4,492.24	3.78	0.00	-109.631	-200.44	-538.94	3,440.99	3,438.34	2.65	1,298.852	
1,200.00	1,199.68	4,467.00	4,492.24	4.12	0.00	-109.035	-200.44	-538.94	3,342.82	3,340.10	2.72	1,229.107	
1,300.00	1,299.37	4,467.00	4,492.24	4.47	0.00	-108.272	-200.44	-538.94	3,244.94	3,242.14	2.80	1,160.118	
1,370.13	1,369.19	4,467.00	4,492.24	4.71	0.00	-107.639	-200.44	-538.94	3,176.50	3,173.65	2.86	1,112.535	
1,400.00	1,398.91	4,467.00	4,492.24	4.81	0.00	-107.353	-200.44	-538.94	3,147.40	3,144.52	2.88	1,092.424	
1,500.00	1,498.42	4,467.00	4,492.24	5.16	0.00	-106.400	-200.44	-538.94	3,050.09	3,047.11	2.98	1,024.208	
1,600.00	1,597.92	4,467.00	4,492.24	5.51	0.00	-105.454	-200.44	-538.94	2,952.95	2,949.86	3.08	957.756	
1,700.00	1,697.43	4,467.00	4,492.24	5.87	0.00	-104.516	-200.44	-538.94	2,856.01	2,852.81	3.20	893.318	
1,800.00	1,796.93	4,467.00	4,492.24	6.22	0.00	-103.586	-200.44	-538.94	2,759.28	2,755.96	3.32	831.089	
1,900.00	1,896.44	4,467.00	4,492.24	6.58	0.00	-102.665	-200.44	-538.94	2,662.80	2,659.35	3.45	771.212	
2,000.00	1,995.94	4,467.00	4,492.24	6.94	0.00	-101.753	-200.44	-538.94	2,566.59	2,563.00	3.60	713.785	
2,100.00	2,095.45	4,467.00	4,492.24	7.30	0.00	-100.851	-200.44	-538.94	2,470.68	2,466.93	3.75	658.867	
2,200.00	2,194.95	4,467.00	4,492.24	7.66	0.00	-99.958	-200.44	-538.94	2,375.11	2,371.19	3.92	606.491	
2,300.00	2,294.46	4,467.00	4,492.24	8.02	0.00	-99.075	-200.44	-538.94	2,279.92	2,275.82	4.10	556.662	
2,400.00	2,393.97	4,467.00	4,492.24	8.38	0.00	-98.202	-200.44	-538.94	2,185.15	2,180.86	4.29	509.368	
2,500.00	2,493.47	4,467.00	4,492.24	8.74	0.00	-97.339	-200.44	-538.94	2,090.88	2,086.38	4.50	464.584	
2,600.00	2,592.98	4,467.00	4,492.24	9.11	0.00	-96.487	-200.44	-538.94	1,997.16	1,992.43	4.73	422.275	
2,700.00	2,692.48	4,467.00	4,492.24	9.47	0.00	-95.646	-200.44	-538.94	1,904.08	1,899.10	4.98	382.402	
2,800.00	2,791.99	4,467.00	4,492.24	9.83	0.00	-94.816	-200.44	-538.94	1,811.74	1,806.49	5.25	344.922	
2,900.00	2,891.49	4,467.00	4,492.24	10.20	0.00	-93.997	-200.44	-538.94	1,720.25	1,714.70	5.55	309.792	
3,000.00	2,991.00	4,467.00	4,492.24	10.56	0.00	-93.189	-200.44	-538.94	1,629.77	1,623.89	5.88	276.974	
3,100.00	3,090.50	4,467.00	4,492.24	10.92	0.00	-92.392	-200.44	-538.94	1,540.46	1,534.21	6.25	246.431	
3,200.00	3,190.01	4,467.00	4,492.24	11.29	0.00	-91.606	-200.44	-538.94	1,452.55	1,445.89	6.66	218.132	
3,300.00	3,289.51	4,467.00	4,492.24	11.65	0.00	-90.832	-200.44	-538.94	1,366.30	1,359.19	7.11	192.050	
3,400.00	3,389.02	4,467.00	4,492.24	12.02	0.00	-90.069	-200.44	-538.94	1,282.05	1,274.43	7.62	168.164	
3,500.00	3,488.52	4,467.00	4,492.24	12.38	0.00	-89.318	-200.44	-538.94	1,200.22	1,192.02	8.20	146.457	
3,600.00	3,588.03	4,467.00	4,492.24	12.75	0.00	-88.578	-200.44	-538.94	1,121.34	1,112.50	8.84	126.916	
3,700.00	3,687.53	4,467.00	4,492.24	13.11	0.00	-87.849	-200.44	-538.94	1,046.08	1,036.53	9.55	109.527	
3,800.00	3,787.04	4,467.00	4,492.24	13.48	0.00	-87.132	-200.44	-538.94	975.27	964.93	10.34	94.279	
3,900.00	3,886.55	4,467.00	4,492.24	13.85	0.00	-86.426	-200.44	-538.94	909.96	898.75	11.21	81.153	
4,000.00	3,986.05	4,467.00	4,492.24	14.21	0.00	-85.732	-200.44	-538.94	851.41	839.27	12.14	70.126	
4,100.00	4,085.56	4,467.00	4,492.24	14.58	0.00	-85.048	-200.44	-538.94	801.11	788.01	13.10	61.161	
4,200.00	4,185.06	4,467.00	4,492.24	14.94	0.00	-84.376	-200.44	-538.94	760.69	746.66	14.03	54.210	
4,300.00	4,284.57	4,467.00	4,492.24	15.31	0.00	-83.715	-200.44	-538.94	731.80	716.93	14.87	49.208	
4,400.00	4,384.07	4,467.00	4,492.24	15.68	0.00	-83.064	-200.44	-538.94	715.82	700.29	15.54	46.070	
4,465.63	4,449.37	4,467.00	4,492.24	15.92	0.00	-82.643	-200.44	-538.94	712.81	696.96	15.85	44.975 CC, ES	
4,500.00	4,483.58	4,467.00	4,492.24	16.04	0.00	-82.425	-200.44	-538.94	713.64	697.67	15.97	44.694	
4,600.00	4,583.08	4,540.00	4,565.10	16.41	0.35	-81.488	-196.49	-539.25	720.76	704.18	16.58	43.473	
4,700.00	4,682.59	4,606.58	4,630.57	16.78	0.73	-79.981	-184.74	-540.72	731.99	714.73	17.26	42.400	
4,800.00	4,782.09	4,688.23	4,709.22	17.14	1.08	-77.776	-163.00	-543.28	746.92	728.92	18.00	41.501	

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

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

Survey Program: 4477-MWD													Offset Site Error: 0.00 usft
Reference													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,881.60	4,767.33	4,784.05	17.51	1.45	-75.377	-137.49	-545.88	764.85	746.10	18.76	40.777	
5,000.00	4,981.10	4,832.00	4,844.65	17.88	1.86	-73.302	-115.12	-548.72	786.39	766.96	19.43	40.482 SF	
5,100.00	5,080.61	4,875.98	4,884.86	18.24	2.18	-71.654	-97.60	-551.84	813.89	793.94	19.95	40.793	
5,200.00	5,180.11	4,909.79	4,914.50	18.61	2.45	-70.190	-81.74	-555.33	848.61	828.26	20.35	41.692	
5,300.00	5,279.62	4,929.00	4,930.66	18.98	2.62	-69.133	-71.65	-557.76	890.59	870.01	20.57	43.285	
5,400.00	5,379.12	4,960.00	4,955.65	19.34	2.92	-67.688	-53.95	-562.53	939.00	918.19	20.81	45.112	
5,500.00	5,478.63	4,992.00	4,980.01	19.71	3.26	-66.210	-34.11	-568.58	993.52	972.50	21.02	47.275	
5,600.00	5,578.14	5,014.51	4,996.27	20.08	3.51	-65.055	-19.22	-573.14	1,053.04	1,031.94	21.10	49.909	
5,700.00	5,677.64	5,042.65	5,015.59	20.44	3.84	-63.702	0.46	-578.69	1,116.78	1,095.57	21.21	52.655	
5,800.00	5,777.15	5,056.00	5,024.38	20.81	4.00	-62.879	10.18	-581.23	1,184.31	1,163.15	21.17	55.951	
5,900.00	5,876.65	5,087.00	5,043.62	21.18	4.40	-61.427	33.77	-587.02	1,255.13	1,233.84	21.29	58.957	
6,000.00	5,976.16	5,087.00	5,043.62	21.54	4.40	-61.112	33.77	-587.02	1,329.29	1,308.16	21.12	62.925	
6,100.00	6,075.66	5,119.00	5,061.49	21.91	4.83	-59.649	59.61	-593.08	1,406.06	1,384.79	21.27	66.114	
6,200.00	6,175.17	5,119.00	5,061.49	22.28	4.83	-59.360	59.61	-593.08	1,485.13	1,464.00	21.13	70.290	
6,300.00	6,274.67	5,119.00	5,061.49	22.65	4.83	-59.076	59.61	-593.08	1,566.59	1,545.58	21.01	74.553	
6,400.00	6,374.18	5,119.00	5,061.49	23.01	4.83	-58.798	59.61	-593.08	1,650.10	1,629.18	20.92	78.871	
6,456.91	6,430.81	5,132.76	5,068.35	23.22	5.03	-58.165	71.19	-595.91	1,697.93	1,676.94	20.99	80.880	
6,500.00	6,473.70	5,134.66	5,069.24	23.38	5.06	-57.989	72.82	-596.32	1,734.65	1,713.68	20.98	82.685	
6,600.00	6,573.35	5,149.00	5,075.51	23.75	5.26	-57.285	85.28	-599.66	1,820.61	1,799.58	21.03	86.553	
6,700.00	6,673.13	5,149.00	5,075.51	24.11	5.26	-57.118	85.28	-599.66	1,906.73	1,885.74	20.99	90.837	
6,800.00	6,773.02	5,149.00	5,075.51	24.47	5.26	-56.996	85.28	-599.66	1,993.42	1,972.45	20.96	95.086	
6,900.00	6,872.97	5,149.00	5,075.51	24.82	5.26	-56.918	85.28	-599.66	2,080.57	2,059.62	20.95	99.289	
7,000.00	6,972.96	5,149.00	5,075.51	25.18	5.26	-56.885	85.28	-599.66	2,168.12	2,147.16	20.96	103.434	
7,027.04	7,000.00	5,149.00	5,075.51	25.27	5.26	-56.883	85.28	-599.66	2,191.85	2,170.89	20.96	104.554	
7,100.00	7,072.96	5,149.00	5,075.51	25.51	5.26	-56.883	85.28	-599.66	2,256.18	2,235.20	20.98	107.554	
7,200.00	7,172.96	5,163.24	5,080.97	25.83	5.48	-56.415	97.94	-603.22	2,344.76	2,323.65	21.11	111.094	
7,300.00	7,272.96	5,180.00	5,086.48	26.16	5.74	-55.865	113.16	-607.55	2,434.73	2,413.47	21.26	114.519	
7,400.00	7,372.96	5,180.00	5,086.48	26.48	5.74	-55.865	113.16	-607.55	2,524.91	2,503.59	21.32	118.406	
7,500.00	7,472.96	5,180.00	5,086.48	26.81	5.74	-55.865	113.16	-607.55	2,615.81	2,594.41	21.40	122.209	
7,600.00	7,572.96	5,180.00	5,086.48	27.14	5.74	-55.865	113.16	-607.55	2,707.36	2,685.86	21.50	125.924	
7,700.00	7,672.96	5,180.00	5,086.48	27.47	5.74	-55.865	113.16	-607.55	2,799.48	2,777.87	21.61	129.546	
7,800.00	7,772.96	5,180.00	5,086.48	27.79	5.74	-55.865	113.16	-607.55	2,892.12	2,870.39	21.73	133.074	
7,900.00	7,872.96	5,180.00	5,086.48	28.12	5.74	-55.865	113.16	-607.55	2,985.24	2,963.37	21.87	136.506	
8,000.00	7,972.96	5,196.18	5,091.16	28.46	6.00	-55.341	128.03	-611.85	3,078.59	3,056.49	22.10	139.301	
8,100.00	8,072.96	5,212.00	5,095.44	28.79	6.26	-54.839	142.65	-616.13	3,172.44	3,150.11	22.33	142.040	
8,200.00	8,172.96	5,212.00	5,095.44	29.12	6.26	-54.839	142.65	-616.13	3,266.48	3,243.98	22.50	145.191	
8,300.00	8,272.96	5,212.00	5,095.44	29.45	6.26	-54.839	142.65	-616.13	3,360.86	3,338.19	22.67	148.248	
8,400.00	8,372.96	5,212.00	5,095.44	29.78	6.26	-54.839	142.65	-616.13	3,455.56	3,432.71	22.85	151.212	
8,500.00	8,472.96	5,212.00	5,095.44	30.12	6.26	-54.839	142.65	-616.13	3,550.55	3,527.51	23.04	154.084	
8,600.00	8,572.96	5,212.00	5,095.44	30.45	6.26	-54.839	142.65	-616.13	3,645.81	3,622.57	23.24	156.866	
8,700.00	8,672.96	5,212.00	5,095.44	30.79	6.26	-54.839	142.65	-616.13	3,741.31	3,717.86	23.45	159.558	
8,800.00	8,772.96	5,226.00	5,098.89	31.12	6.49	-54.403	155.66	-619.98	3,836.80	3,813.08	23.73	161.717	
8,900.00	8,872.96	5,228.36	5,099.43	31.46	6.53	-54.330	157.86	-620.63	3,932.66	3,908.70	23.95	164.170	
9,000.00	8,972.96	5,243.00	5,102.50	31.80	6.77	-53.880	171.59	-624.70	4,028.90	4,004.65	24.24	166.195	
9,100.00	9,072.96	5,243.00	5,102.50	32.13	6.77	-53.880	171.59	-624.70	4,125.06	4,100.58	24.47	168.558	
9,196.08	9,169.04	5,243.00	5,102.50	32.46	6.77	-53.880	171.59	-624.70	4,217.62	4,192.92	24.70	170.754	
9,200.00	9,172.96	5,243.00	5,102.50	32.47	6.77	-53.881	171.59	-624.70	4,221.39	4,196.68	24.71	170.842	
9,250.00	9,222.88	5,243.00	5,102.50	32.64	6.77	-53.995	171.59	-624.70	4,269.24	4,244.41	24.83	171.964	
9,300.00	9,272.39	5,243.00	5,102.50	32.80	6.77	-54.306	171.59	-624.70	4,316.21	4,291.27	24.94	173.070	
9,350.00	9,321.11	5,243.00	5,102.50	32.96	6.77	-54.817	171.59	-624.70	4,361.99	4,336.95	25.05	174.150	

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

Offset Design: Double Stamp - Offsets (NAD 83) - Belco AIA Federal 2H - Wellbore #1 - Surveys														Offset Site Error:	0.00 usft
Survey Program: 4477-MWD														Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
9,400.00	9,368.68	5,243.00	5,102.50	33.12	6.77	-55.527	171.59	-624.70	4,406.28	4,381.13	25.15	175.197			
9,450.00	9,414.73	5,243.00	5,102.50	33.26	6.77	-56.438	171.59	-624.70	4,448.77	4,423.52	25.25	176.207			
9,500.00	9,458.90	5,260.11	5,105.76	33.40	7.05	-56.976	187.70	-629.44	4,489.13	4,463.73	25.41	176.701			
9,550.00	9,500.88	5,275.00	5,108.51	33.53	7.30	-57.761	201.76	-633.51	4,527.10	4,501.55	25.55	177.183			
9,600.00	9,540.32	5,275.00	5,108.51	33.65	7.30	-59.241	201.76	-633.51	4,562.45	4,536.83	25.63	178.047			
9,650.00	9,576.94	5,292.41	5,111.59	33.77	7.59	-60.279	218.23	-638.22	4,594.93	4,569.16	25.77	178.335			
9,700.00	9,610.46	5,307.00	5,114.01	33.87	7.84	-61.572	232.07	-642.15	4,624.41	4,598.52	25.89	178.638			
9,750.00	9,640.61	5,307.00	5,114.01	33.96	7.84	-63.578	232.07	-642.15	4,650.67	4,624.73	25.94	179.280			
9,800.00	9,667.18	5,338.00	5,118.80	34.05	8.36	-64.504	261.60	-650.30	4,673.52	4,647.40	26.12	178.905			
9,850.00	9,689.96	5,338.00	5,118.80	34.13	8.36	-66.794	261.60	-650.30	4,692.84	4,666.68	26.17	179.349			
9,900.00	9,708.77	5,338.00	5,118.80	34.20	8.36	-69.232	261.60	-650.30	4,708.66	4,682.45	26.21	179.676			
9,950.00	9,723.48	5,370.00	5,123.04	34.27	8.91	-70.375	292.11	-658.93	4,720.77	4,694.39	26.39	178.913			
10,000.00	9,733.96	5,370.00	5,123.04	34.32	8.91	-72.987	292.11	-658.93	4,729.04	4,702.61	26.42	178.975			
10,050.00	9,740.15	5,370.00	5,123.04	34.37	8.91	-75.677	292.11	-658.93	4,733.60	4,707.14	26.46	178.887			
10,096.08	9,742.00	5,370.00	5,123.04	34.41	8.91	-78.199	292.11	-658.93	4,734.52	4,708.02	26.50	178.665			
10,100.00	9,742.00	5,370.00	5,123.04	34.41	8.91	-78.415	292.11	-658.93	4,734.46	4,707.96	26.50	178.639			
10,200.00	9,742.00	5,387.04	5,124.79	34.50	9.20	-83.074	308.37	-663.72	4,733.47	4,706.79	26.68	177.444			
10,249.13	9,742.00	5,401.00	5,125.87	34.56	9.44	-85.061	321.74	-667.60	4,733.48	4,706.69	26.79	176.658			
10,300.00	9,742.00	5,401.00	5,125.87	34.62	9.44	-87.842	321.74	-667.60	4,733.66	4,706.80	26.86	176.237			
10,400.00	9,742.00	5,401.00	5,125.87	34.75	9.44	-93.284	321.74	-667.60	4,735.01	4,708.00	27.01	175.302			
10,500.00	9,742.00	5,401.00	5,125.87	34.91	9.44	-98.650	321.74	-667.60	4,737.70	4,710.51	27.19	174.261			
10,511.62	9,742.00	5,401.00	5,125.87	34.93	9.44	-99.267	321.74	-667.60	4,738.10	4,710.89	27.21	174.134			
10,600.00	9,742.00	5,433.00	5,126.53	35.09	9.99	-102.196	352.44	-676.58	4,741.79	4,714.28	27.51	172.336			
10,700.00	9,742.00	5,433.00	5,126.53	35.29	9.99	-107.244	352.44	-676.58	4,747.56	4,719.82	27.74	171.117			
10,800.00	9,742.00	5,433.00	5,126.53	35.51	9.99	-112.036	352.44	-676.58	4,755.43	4,727.43	28.00	169.816			
10,900.00	9,742.00	5,433.00	5,126.53	35.75	9.99	-116.528	352.44	-676.58	4,765.39	4,737.10	28.29	168.453			
11,000.00	9,742.00	5,465.00	5,125.13	36.00	10.55	-119.250	383.05	-685.80	4,776.89	4,748.17	28.71	166.362			
11,100.00	9,742.00	5,540.69	5,120.20	36.28	11.87	-119.883	455.52	-707.03	4,789.85	4,760.51	29.34	163.256			
11,200.00	9,742.00	5,654.00	5,112.47	36.58	13.84	-118.894	564.94	-735.44	4,802.50	4,772.31	30.19	159.101			
11,300.00	9,742.00	6,258.26	5,085.51	36.89	24.03	-95.729	1,161.10	-823.84	4,811.69	4,777.70	33.99	141.566			
11,400.00	9,742.00	6,389.76	5,085.61	37.22	26.21	-94.230	1,292.07	-835.53	4,813.72	4,778.54	35.18	136.833			
11,500.00	9,742.00	6,495.00	5,085.14	37.57	27.93	-93.975	1,397.17	-840.94	4,815.31	4,779.10	36.21	133.001			
11,600.00	9,742.00	6,579.27	5,084.23	37.93	29.30	-94.701	1,481.37	-844.37	4,817.23	4,780.12	37.11	129.820			
11,700.00	9,742.00	6,633.73	5,083.54	38.31	30.20	-96.801	1,535.75	-847.09	4,819.62	4,781.79	37.83	127.404			
11,800.00	9,742.00	6,779.00	5,081.90	38.71	32.57	-94.694	1,680.89	-853.00	4,821.41	4,782.24	39.17	123.077			
11,900.00	9,742.00	6,844.00	5,081.05	39.12	33.64	-96.296	1,745.80	-856.30	4,823.81	4,783.81	40.00	120.602			
12,000.00	9,742.00	6,980.08	5,080.18	39.55	35.90	-94.621	1,881.65	-864.16	4,825.64	4,784.31	41.33	116.758			
12,100.00	9,742.00	7,112.36	5,079.94	39.99	38.08	-93.133	2,013.77	-870.50	4,826.81	4,784.16	42.65	113.174			
12,200.00	9,742.00	7,161.00	5,079.90	40.44	38.89	-95.469	2,062.28	-873.93	4,828.60	4,785.19	43.41	111.245			
12,300.00	9,742.00	7,250.66	5,079.00	40.91	40.38	-95.921	2,151.73	-880.08	4,831.20	4,786.73	44.46	108.657			
12,400.00	9,742.00	7,437.70	5,079.00	41.39	43.52	-91.982	2,338.05	-896.20	4,833.72	4,787.47	46.25	104.507			
12,500.00	9,742.00	7,568.72	5,081.51	41.88	45.72	-90.609	2,468.43	-908.80	4,834.30	4,786.64	47.67	101.422			
12,600.00	9,742.00	7,577.00	5,081.71	42.39	45.86	-94.690	2,476.67	-909.60	4,835.31	4,787.14	48.18	100.366			
12,700.00	9,742.00	7,577.00	5,081.71	42.91	45.86	-99.087	2,476.67	-909.60	4,838.38	4,789.75	48.64	99.481			
12,800.00	9,742.00	7,577.00	5,081.71	43.43	45.86	-103.382	2,476.67	-909.60	4,843.51	4,794.41	49.10	98.641			
12,900.00	9,742.00	7,577.00	5,081.71	43.97	45.86	-107.533	2,476.67	-909.60	4,850.70	4,801.13	49.57	97.847			
13,000.00	9,742.00	7,577.00	5,081.71	44.52	45.86	-111.506	2,476.67	-909.60	4,859.94	4,809.89	50.05	97.102			
13,100.00	9,742.00	7,577.00	5,081.71	45.08	45.86	-115.276	2,476.67	-909.60	4,871.21	4,820.68	50.53	96.408			
13,200.00	9,742.00	7,577.00	5,081.71	45.65	45.86	-118.829	2,476.67	-909.60	4,884.50	4,833.50	51.00	95.767			
13,300.00	9,742.00	7,577.00	5,081.71	46.23	45.86	-122.158	2,476.67	-909.60	4,899.80	4,848.32	51.48	95.180			
13,400.00	9,742.00	7,577.00	5,081.71	46.81	45.86	-125.263	2,476.67	-909.60	4,917.09	4,865.14	51.95	94.648			

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

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

Survey Program: 4477-MWD		Offset		Semi Major Axis		Azimuth from North (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
13,500.00	9,742.00	7,577.00	5,081.71	47.41	45.86	-128.149	2,476.67	-909.60	4,936.34	4,883.92	52.42	94.172	
13,600.00	9,742.00	7,577.00	5,081.71	48.01	45.86	-130.826	2,476.67	-909.60	4,957.53	4,904.65	52.88	93.751	
13,700.00	9,742.00	7,577.00	5,081.71	48.62	45.86	-133.306	2,476.67	-909.60	4,980.65	4,927.31	53.33	93.386	
13,800.00	9,742.00	7,577.00	5,081.71	49.24	45.86	-135.600	2,476.67	-909.60	5,005.65	4,951.87	53.78	93.077	
13,900.00	9,742.00	7,577.00	5,081.71	49.87	45.86	-137.722	2,476.67	-909.60	5,032.52	4,978.30	54.22	92.822	
14,000.00	9,742.00	7,577.00	5,081.71	50.50	45.86	-139.687	2,476.67	-909.60	5,061.22	5,006.57	54.64	92.622	
14,100.00	9,742.00	7,577.00	5,081.71	51.14	45.86	-141.506	2,476.67	-909.60	5,091.72	5,036.66	55.06	92.476	
14,200.00	9,742.00	7,577.00	5,081.71	51.79	45.86	-143.192	2,476.67	-909.60	5,123.99	5,068.53	55.47	92.382	
14,300.00	9,742.00	7,577.00	5,081.71	52.44	45.86	-144.756	2,476.67	-909.60	5,158.00	5,102.14	55.86	92.340	
14,400.00	9,742.00	7,577.00	5,081.71	53.10	45.86	-146.209	2,476.67	-909.60	5,193.71	5,137.47	56.24	92.349	
14,500.00	9,742.00	7,577.00	5,081.71	53.77	45.86	-147.561	2,476.67	-909.60	5,231.09	5,174.49	56.61	92.407	
14,600.00	9,742.00	7,577.00	5,081.71	54.44	45.86	-148.821	2,476.67	-909.60	5,270.11	5,213.14	56.97	92.513	
14,700.00	9,742.00	7,577.00	5,081.71	55.12	45.86	-149.996	2,476.67	-909.60	5,310.72	5,253.41	57.31	92.666	
14,800.00	9,742.00	7,577.00	5,081.71	55.80	45.86	-151.095	2,476.67	-909.60	5,352.89	5,295.25	57.64	92.864	
14,900.00	9,742.00	7,577.00	5,081.71	56.49	45.86	-152.122	2,476.67	-909.60	5,396.58	5,338.62	57.96	93.107	
15,000.00	9,742.00	7,577.00	5,081.71	57.18	45.86	-153.086	2,476.67	-909.60	5,441.76	5,383.50	58.27	93.393	
15,100.00	9,742.00	7,577.00	5,081.71	57.88	45.86	-153.990	2,476.67	-909.60	5,488.40	5,429.83	58.56	93.721	
15,200.00	9,742.00	7,577.00	5,081.71	58.58	45.86	-154.840	2,476.67	-909.60	5,536.44	5,477.60	58.84	94.088	
15,300.00	9,742.00	7,577.00	5,081.71	59.28	45.86	-155.640	2,476.67	-909.60	5,585.86	5,526.75	59.11	94.495	
15,400.00	9,742.00	7,577.00	5,081.71	59.99	45.86	-156.394	2,476.67	-909.60	5,636.63	5,577.26	59.37	94.939	
15,500.00	9,742.00	7,577.00	5,081.71	60.71	45.86	-157.106	2,476.67	-909.60	5,688.69	5,629.08	59.62	95.420	
15,600.00	9,742.00	7,577.00	5,081.71	61.42	45.86	-157.779	2,476.67	-909.60	5,742.03	5,682.18	59.85	95.936	
15,700.00	9,742.00	7,577.00	5,081.71	62.15	45.86	-158.416	2,476.67	-909.60	5,796.60	5,736.53	60.08	96.486	
15,800.00	9,742.00	7,577.00	5,081.71	62.87	45.86	-159.020	2,476.67	-909.60	5,852.38	5,792.09	60.29	97.068	
15,900.00	9,742.00	7,577.00	5,081.71	63.60	45.86	-159.592	2,476.67	-909.60	5,909.32	5,848.82	60.50	97.682	
16,000.00	9,742.00	7,577.00	5,081.71	64.33	45.86	-160.136	2,476.67	-909.60	5,967.39	5,906.70	60.69	98.326	
16,100.00	9,742.00	7,577.00	5,081.71	65.07	45.86	-160.653	2,476.67	-909.60	6,026.56	5,965.68	60.87	99.000	
16,200.00	9,742.00	7,577.00	5,081.71	65.81	45.86	-161.146	2,476.67	-909.60	6,086.80	6,025.74	61.05	99.701	
16,300.00	9,742.00	7,577.00	5,081.71	66.55	45.86	-161.615	2,476.67	-909.60	6,148.07	6,086.85	61.22	100.430	
16,400.00	9,742.00	7,577.00	5,081.71	67.29	45.86	-162.062	2,476.67	-909.60	6,210.35	6,148.97	61.38	101.185	
16,500.00	9,742.00	7,577.00	5,081.71	68.04	45.86	-162.489	2,476.67	-909.60	6,273.61	6,212.08	61.53	101.965	
16,600.00	9,742.00	7,577.00	5,081.71	68.79	45.86	-162.898	2,476.67	-909.60	6,337.81	6,276.14	61.67	102.769	
16,700.00	9,742.00	7,577.00	5,081.71	69.54	45.86	-163.288	2,476.67	-909.60	6,402.93	6,341.12	61.81	103.596	
16,800.00	9,742.00	7,577.00	5,081.71	70.30	45.86	-163.662	2,476.67	-909.60	6,468.94	6,407.01	61.94	104.445	
16,900.00	9,742.00	7,577.00	5,081.71	71.06	45.86	-164.020	2,476.67	-909.60	6,535.82	6,473.76	62.06	105.316	
17,000.00	9,742.00	7,577.00	5,081.71	71.82	45.86	-164.364	2,476.67	-909.60	6,603.53	6,541.35	62.18	106.207	
17,100.00	9,742.00	7,577.00	5,081.71	72.58	45.86	-164.693	2,476.67	-909.60	6,672.05	6,609.77	62.29	107.118	
17,200.00	9,742.00	7,577.00	5,081.71	73.35	45.86	-165.010	2,476.67	-909.60	6,741.36	6,678.97	62.39	108.048	
17,300.00	9,742.00	7,577.00	5,081.71	74.12	45.86	-165.314	2,476.67	-909.60	6,811.44	6,748.94	62.49	108.996	
17,400.00	9,742.00	7,577.00	5,081.71	74.89	45.86	-165.607	2,476.67	-909.60	6,882.25	6,819.66	62.59	109.961	
17,500.00	9,742.00	7,577.00	5,081.71	75.66	45.86	-165.889	2,476.67	-909.60	6,953.78	6,891.10	62.68	110.943	
17,600.00	9,742.00	7,577.00	5,081.71	76.43	45.86	-166.160	2,476.67	-909.60	7,026.00	6,963.24	62.77	111.941	
17,700.00	9,742.00	7,577.00	5,081.71	77.21	45.86	-166.422	2,476.67	-909.60	7,098.90	7,036.06	62.85	112.954	
17,800.00	9,742.00	7,577.00	5,081.71	77.99	45.86	-166.674	2,476.67	-909.60	7,172.46	7,109.53	62.93	113.982	
17,900.00	9,742.00	7,577.00	5,081.71	78.77	45.86	-166.918	2,476.67	-909.60	7,246.64	7,183.64	63.00	115.024	
18,000.00	9,742.00	7,577.00	5,081.71	79.55	45.86	-167.153	2,476.67	-909.60	7,321.44	7,258.37	63.07	116.079	
18,100.00	9,742.00	7,577.00	5,081.71	80.33	45.86	-167.380	2,476.67	-909.60	7,396.84	7,333.69	63.14	117.147	
18,200.00	9,742.00	7,577.00	5,081.71	81.12	45.86	-167.599	2,476.67	-909.60	7,472.81	7,409.60	63.21	118.228	
18,300.00	9,742.00	7,577.00	5,081.71	81.90	45.86	-167.811	2,476.67	-909.60	7,549.34	7,486.07	63.27	119.320	
18,400.00	9,742.00	7,577.00	5,081.71	82.69	45.86	-168.017	2,476.67	-909.60	7,626.42	7,563.09	63.33	120.423	

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

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

Survey Program: 4477-MWD		Offset		Semi Major Axis		Azimuth from North (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N-S (usft)	+E-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)			Warning	
18,500.00	9,742.00	7,577.00	5,081.71	83.48	45.86	-168.216	2,476.67	-909.60	7,704.02	7,640.63	63.39	121.537		
18,600.00	9,742.00	7,577.00	5,081.71	84.27	45.86	-168.408	2,476.67	-909.60	7,782.14	7,718.69	63.44	122.661		
18,700.00	9,742.00	7,577.00	5,081.71	85.07	45.86	-168.595	2,476.67	-909.60	7,860.75	7,797.25	63.50	123.795		
18,800.00	9,742.00	7,577.00	5,081.71	85.86	45.86	-168.776	2,476.67	-909.60	7,939.84	7,876.29	63.55	124.937		
18,900.00	9,742.00	7,577.00	5,081.71	86.66	45.86	-168.952	2,476.67	-909.60	8,019.40	7,955.79	63.60	126.089		
19,000.00	9,742.00	7,577.00	5,081.71	87.46	45.86	-169.122	2,476.67	-909.60	8,099.41	8,035.76	63.65	127.249		
19,100.00	9,742.00	7,577.00	5,081.71	88.25	45.86	-169.287	2,476.67	-909.60	8,179.86	8,116.16	63.70	128.417		
19,200.00	9,742.00	7,577.00	5,081.71	89.05	45.86	-169.448	2,476.67	-909.60	8,260.74	8,196.99	63.74	129.593		
19,300.00	9,742.00	7,577.00	5,081.71	89.85	45.86	-169.604	2,476.67	-909.60	8,342.03	8,278.24	63.79	130.775		
19,400.00	9,742.00	7,577.00	5,081.71	90.66	45.86	-169.756	2,476.67	-909.60	8,423.73	8,359.89	63.83	131.964		
19,500.00	9,742.00	7,577.00	5,081.71	91.46	45.86	-169.903	2,476.67	-909.60	8,505.81	8,441.94	63.88	133.160		
19,600.00	9,742.00	7,577.00	5,081.71	92.26	45.86	-170.047	2,476.67	-909.60	8,588.28	8,524.36	63.92	134.362		
19,700.00	9,742.00	7,577.00	5,081.71	93.07	45.86	-170.186	2,476.67	-909.60	8,671.11	8,607.15	63.96	135.569		
19,800.00	9,742.00	7,577.00	5,081.71	93.88	45.86	-170.322	2,476.67	-909.60	8,754.31	8,690.31	64.00	136.782		
19,900.00	9,742.00	7,577.00	5,081.71	94.69	45.86	-170.454	2,476.67	-909.60	8,837.85	8,773.81	64.04	138.000		
20,000.00	9,742.00	7,577.00	5,081.71	95.49	45.86	-170.583	2,476.67	-909.60	8,921.73	8,857.65	64.08	139.222		
20,032.45	9,742.00	7,577.00	5,081.71	95.76	45.86	-170.625	2,476.67	-909.60	8,949.02	8,884.92	64.10	139.620		

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference 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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.00	0.00	1,500.00	1,528.41	0.00	0.00	51.825	1,453.40	1,848.58	2,804.58						
100.00	100.00	1,500.00	1,528.41	0.26	0.00	51.825	1,453.40	1,848.58	2,751.36	2,750.14	1.21	2,264.589			
200.00	200.00	1,500.00	1,528.41	0.62	0.00	51.825	1,453.40	1,848.58	2,700.80	2,699.54	1.26	2,147.409			
300.00	300.00	1,500.00	1,528.41	0.98	0.00	51.825	1,453.40	1,848.58	2,653.04	2,651.66	1.38	1,919.357			
400.00	400.00	1,500.00	1,528.41	1.34	0.00	51.825	1,453.40	1,848.58	2,608.24	2,606.67	1.58	1,655.388			
500.00	500.00	1,500.00	1,528.41	1.70	0.00	51.825	1,453.40	1,848.58	2,566.56	2,564.74	1.82	1,409.318			
600.00	600.00	1,500.00	1,528.41	2.06	0.00	51.825	1,453.40	1,848.58	2,528.16	2,526.05	2.10	1,201.183			
700.00	700.00	1,500.00	1,528.41	2.41	0.00	51.825	1,453.40	1,848.58	2,493.17	2,490.75	2.42	1,031.942			
800.00	800.00	1,500.00	1,528.41	2.77	0.00	51.825	1,453.40	1,848.58	2,461.75	2,459.00	2.75	895.974			
900.00	899.99	1,500.00	1,528.41	3.11	0.00	51.804	1,453.40	1,848.58	2,434.16	2,431.08	3.08	790.838			
1,000.00	999.96	1,500.00	1,528.41	3.45	0.00	51.741	1,453.40	1,848.58	2,410.66	2,407.26	3.41	707.527			
1,100.00	1,099.86	1,500.00	1,528.41	3.78	0.00	51.636	1,453.40	1,848.58	2,391.39	2,387.64	3.75	637.986			
1,200.00	1,199.68	1,500.00	1,528.41	4.12	0.00	51.489	1,453.40	1,848.58	2,376.44	2,372.35	4.10	579.954			
1,300.00	1,299.37	1,500.00	1,528.41	4.47	0.00	51.300	1,453.40	1,848.58	2,365.92	2,361.46	4.45	531.460			
1,370.13	1,369.19	1,500.00	1,528.41	4.71	0.00	51.143	1,453.40	1,848.58	2,361.20	2,356.50	4.70	502.251			
1,400.00	1,398.91	1,500.00	1,528.41	4.81	0.00	51.072	1,453.40	1,848.58	2,359.85	2,355.05	4.81	490.870			
1,491.57	1,490.03	1,500.00	1,528.41	5.13	0.00	50.853	1,453.40	1,848.58	2,358.08	2,352.94	5.13	459.435 CC			
1,500.00	1,498.42	1,500.00	1,528.41	5.16	0.00	50.833	1,453.40	1,848.58	2,358.09	2,352.93	5.16	456.793 ES			
1,600.00	1,597.92	1,535.51	1,563.92	5.51	0.07	50.596	1,453.69	1,848.96	2,360.27	2,354.69	5.58	423.147			
1,700.00	1,697.43	1,627.65	1,656.04	5.87	0.33	50.364	1,454.46	1,850.26	2,363.57	2,357.37	6.20	381.425			
1,800.00	1,796.93	1,735.73	1,764.11	6.22	0.72	50.114	1,456.00	1,851.29	2,366.93	2,359.99	6.94	341.142			
1,900.00	1,896.44	1,823.65	1,852.02	6.58	1.03	49.866	1,457.27	1,852.04	2,370.27	2,362.67	7.61	311.502			
2,000.00	1,995.94	1,917.51	1,945.86	6.94	1.37	49.627	1,458.57	1,853.43	2,374.09	2,365.79	8.30	285.933			
2,100.00	2,095.45	2,007.83	2,036.15	7.30	1.69	49.398	1,459.72	1,855.15	2,378.22	2,369.23	8.98	264.695			
2,200.00	2,194.95	2,089.99	2,118.28	7.66	1.99	49.167	1,461.12	1,857.03	2,382.93	2,373.29	9.64	247.260			
2,300.00	2,294.46	2,194.04	2,222.28	8.02	2.36	48.937	1,463.06	1,859.54	2,387.88	2,377.51	10.37	230.245			
2,400.00	2,393.97	2,274.00	2,302.19	8.38	2.65	48.713	1,464.56	1,861.84	2,393.24	2,382.22	11.02	217.245			
2,500.00	2,493.47	2,367.00	2,395.12	8.74	2.99	48.485	1,466.85	1,864.74	2,399.18	2,387.47	11.71	204.879			
2,600.00	2,592.98	2,453.02	2,481.07	9.11	3.30	48.250	1,469.32	1,867.34	2,405.40	2,393.02	12.38	194.325			
2,700.00	2,692.48	2,520.82	2,548.76	9.47	3.55	48.016	1,471.85	1,870.02	2,412.84	2,399.87	12.98	185.933			
2,800.00	2,791.99	2,622.31	2,650.05	9.83	3.92	47.798	1,475.71	1,875.08	2,421.19	2,407.48	13.70	176.671			
2,900.00	2,891.49	2,817.77	2,845.41	10.20	4.63	47.563	1,479.70	1,879.08	2,425.27	2,410.49	14.78	164.049			
3,000.00	2,991.00	2,911.00	2,938.62	10.56	4.96	47.355	1,480.38	1,881.11	2,429.55	2,414.07	15.48	156.953			
3,100.00	3,090.50	3,041.43	3,069.03	10.92	5.42	47.160	1,480.41	1,883.25	2,432.90	2,416.59	16.31	149.191			
3,200.00	3,190.01	3,151.97	3,179.56	11.29	5.81	46.947	1,480.55	1,884.32	2,435.98	2,418.91	17.06	142.765			
3,300.00	3,289.51	3,259.53	3,287.13	11.65	6.19	46.726	1,480.45	1,884.62	2,438.41	2,420.60	17.80	136.963			
3,400.00	3,389.02	3,339.51	3,367.10	12.02	6.46	46.507	1,480.37	1,884.99	2,441.06	2,422.61	18.45	132.332			
3,500.00	3,488.52	3,446.01	3,473.60	12.38	6.84	46.281	1,480.92	1,885.56	2,444.17	2,424.98	19.19	127.357			
3,600.00	3,588.03	3,543.78	3,571.36	12.75	7.19	46.061	1,481.14	1,886.19	2,447.20	2,427.30	19.90	122.945			
3,700.00	3,687.53	3,633.76	3,661.34	13.11	7.51	45.844	1,481.46	1,886.98	2,450.53	2,429.94	20.59	119.015			
3,800.00	3,787.04	3,725.87	3,753.44	13.48	7.84	45.622	1,482.16	1,887.89	2,454.24	2,432.96	21.28	115.314			
3,900.00	3,886.55	3,828.10	3,855.67	13.85	8.21	45.390	1,483.35	1,888.59	2,458.07	2,436.06	22.01	111.674			
4,000.00	3,986.05	3,973.05	4,000.59	14.21	8.71	45.129	1,485.30	1,888.29	2,461.65	2,438.77	22.88	107.599			
4,100.00	4,085.56	4,092.58	4,120.12	14.58	9.10	44.890	1,484.74	1,886.74	2,462.96	2,439.32	23.63	104.209			
4,200.00	4,185.06	4,191.08	4,218.61	14.94	9.42	44.652	1,484.22	1,885.32	2,464.23	2,439.90	24.32	101.311			
4,300.00	4,284.57	4,285.32	4,312.83	15.31	9.73	44.418	1,483.74	1,884.13	2,465.67	2,440.67	25.00	98.627			
4,400.00	4,384.07	4,384.01	4,411.52	15.68	10.06	44.186	1,483.21	1,883.05	2,467.26	2,441.57	25.69	96.029			
4,500.00	4,483.58	4,434.00	4,461.51	16.04	10.23	43.960	1,483.05	1,882.59	2,469.53	2,443.31	26.22	94.177			
4,600.00	4,583.08	4,469.50	4,496.99	16.41	10.35	43.722	1,483.88	1,882.39	2,474.20	2,447.50	26.69	92.688			
4,700.00	4,682.59	4,496.00	4,523.42	16.78	10.45	43.471	1,485.86	1,882.46	2,482.14	2,455.02	27.12	91.540			
4,800.00	4,782.09	4,510.47	4,537.79	17.14	10.50	43.227	1,487.53	1,882.55	2,493.19	2,465.72	27.46	90.778			

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

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

Survey Program: 1572-MWD		Offset		Semi Major Axis		Azimuth from North (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)			
4,900.00	4,881.60	4,527.00	4,554.15	17.51	10.56	42.972	1,489.89	1,882.65	2,507.38	2,479.59	27.80	90.202	
5,000.00	4,981.10	4,558.00	4,584.57	17.88	10.67	42.661	1,495.80	1,882.59	2,524.51	2,496.33	28.18	89.598	
5,100.00	5,080.61	4,589.00	4,614.55	18.24	10.79	42.311	1,503.68	1,881.98	2,544.65	2,516.11	28.54	89.171 SF	
5,200.00	5,180.11	4,603.19	4,628.07	18.61	10.84	42.021	1,507.95	1,881.48	2,567.57	2,538.78	28.79	89.183	
5,300.00	5,279.62	4,620.00	4,643.87	18.98	10.90	41.705	1,513.63	1,880.66	2,593.46	2,564.43	29.03	89.329	
5,400.00	5,379.12	4,651.00	4,672.33	19.34	11.02	41.275	1,525.72	1,878.64	2,622.28	2,592.95	29.33	89.391	
5,500.00	5,478.63	4,661.81	4,682.05	19.71	11.06	40.979	1,530.38	1,877.82	2,653.83	2,624.33	29.50	89.956	
5,600.00	5,578.14	4,673.00	4,692.01	20.08	11.10	40.678	1,535.40	1,876.94	2,688.23	2,658.58	29.65	90.671	
5,700.00	5,677.64	4,707.81	4,722.29	20.44	11.23	40.165	1,552.25	1,873.66	2,725.01	2,695.08	29.93	91.060	
5,800.00	5,777.15	4,739.00	4,748.42	20.81	11.36	39.653	1,568.84	1,869.89	2,764.35	2,734.19	30.17	91.632	
5,900.00	5,876.65	4,739.00	4,748.42	21.18	11.36	39.446	1,568.84	1,869.89	2,806.12	2,775.93	30.19	92.940	
6,000.00	5,976.16	4,768.00	4,771.53	21.54	11.49	38.927	1,585.79	1,865.53	2,850.34	2,819.95	30.39	93.777	
6,100.00	6,075.66	4,768.00	4,771.53	21.91	11.49	38.722	1,585.79	1,865.53	2,897.04	2,866.65	30.39	95.334	
6,200.00	6,175.17	4,799.00	4,794.60	22.28	11.63	38.145	1,605.66	1,859.73	2,946.05	2,915.47	30.58	96.330	
6,300.00	6,274.67	4,799.00	4,794.60	22.65	11.63	37.943	1,605.66	1,859.73	2,997.24	2,966.68	30.55	98.100	
6,400.00	6,374.18	4,829.00	4,815.41	23.01	11.78	37.350	1,626.19	1,853.02	3,050.59	3,019.87	30.73	99.285	
6,456.91	6,430.81	4,829.00	4,815.41	23.22	11.78	37.237	1,626.19	1,853.02	3,081.79	3,051.09	30.70	100.383	
6,500.00	6,473.70	4,829.00	4,815.41	23.38	11.78	37.154	1,626.19	1,853.02	3,105.85	3,075.17	30.68	101.237	
6,600.00	6,573.35	4,845.14	4,826.03	23.75	11.87	36.768	1,637.69	1,849.06	3,162.69	3,131.95	30.74	102.889	
6,700.00	6,673.13	4,859.00	4,834.82	24.11	11.94	36.445	1,647.80	1,845.52	3,220.95	3,190.17	30.78	104.649	
6,800.00	6,773.02	4,859.00	4,834.82	24.47	11.94	36.349	1,647.80	1,845.52	3,280.55	3,249.84	30.71	106.820	
6,900.00	6,872.97	4,888.00	4,852.22	24.82	12.10	35.875	1,669.66	1,837.78	3,341.41	3,310.56	30.85	108.303	
7,000.00	6,972.96	4,888.00	4,852.22	25.18	12.10	35.849	1,669.66	1,837.78	3,403.25	3,372.47	30.78	110.575	
7,027.04	7,000.00	4,888.00	4,852.22	25.27	12.10	35.847	1,669.66	1,837.78	3,420.19	3,389.43	30.75	111.210	
7,100.00	7,072.96	4,888.00	4,852.22	25.51	12.10	35.847	1,669.66	1,837.78	3,466.47	3,435.78	30.69	112.966	
7,200.00	7,172.96	4,904.04	4,861.32	25.83	12.20	35.615	1,682.13	1,833.43	3,531.13	3,500.42	30.71	114.969	
7,300.00	7,272.96	4,918.00	4,868.97	26.16	12.29	35.412	1,693.20	1,829.71	3,597.35	3,566.62	30.73	117.058	
7,400.00	7,372.96	4,918.00	4,868.97	26.48	12.29	35.412	1,693.20	1,829.71	3,664.93	3,634.28	30.65	119.576	
7,500.00	7,472.96	4,918.00	4,868.97	26.81	12.29	35.412	1,693.20	1,829.71	3,733.97	3,703.40	30.57	122.131	
7,600.00	7,572.96	4,918.00	4,868.97	27.14	12.29	35.412	1,693.20	1,829.71	3,804.38	3,773.88	30.50	124.717	
7,700.00	7,672.96	4,933.67	4,877.27	27.47	12.39	35.188	1,705.91	1,825.83	3,875.73	3,845.18	30.56	126.837	
7,800.00	7,772.96	4,949.00	4,885.05	27.79	12.49	34.974	1,718.71	1,822.55	3,948.62	3,918.00	30.62	128.974	
7,900.00	7,872.96	4,949.00	4,885.05	28.12	12.49	34.974	1,718.71	1,822.55	4,022.33	3,991.77	30.57	131.590	
8,000.00	7,972.96	4,949.00	4,885.05	28.46	12.49	34.974	1,718.71	1,822.55	4,097.16	4,066.64	30.53	134.213	
8,100.00	8,072.96	4,949.00	4,885.05	28.79	12.49	34.974	1,718.71	1,822.55	4,173.05	4,142.55	30.50	136.839	
8,200.00	8,172.96	4,949.00	4,885.05	29.12	12.49	34.974	1,718.71	1,822.55	4,249.93	4,219.46	30.47	139.462	
8,300.00	8,272.96	4,963.96	4,892.31	29.45	12.60	34.767	1,731.45	1,819.61	4,327.55	4,296.98	30.57	141.572	
8,400.00	8,372.96	4,981.00	4,900.16	29.78	12.72	34.532	1,746.20	1,816.27	4,406.20	4,375.51	30.68	143.596	
8,500.00	8,472.96	4,981.00	4,900.16	30.12	12.72	34.532	1,746.20	1,816.27	4,485.44	4,454.75	30.69	146.165	
8,600.00	8,572.96	4,981.00	4,900.16	30.45	12.72	34.532	1,746.20	1,816.27	4,565.49	4,534.79	30.70	148.715	
8,700.00	8,672.96	4,981.00	4,900.16	30.79	12.72	34.532	1,746.20	1,816.27	4,646.32	4,615.60	30.72	151.242	
8,800.00	8,772.96	4,981.00	4,900.16	31.12	12.72	34.532	1,746.20	1,816.27	4,727.88	4,697.13	30.75	153.743	
8,900.00	8,872.96	4,981.00	4,900.16	31.46	12.72	34.532	1,746.20	1,816.27	4,810.13	4,779.34	30.79	156.213	
9,000.00	8,972.96	4,981.00	4,900.16	31.80	12.72	34.532	1,746.20	1,816.27	4,893.05	4,862.21	30.84	158.650	
9,100.00	9,072.96	4,996.80	4,906.94	32.13	12.84	34.312	1,760.14	1,813.20	4,976.25	4,945.24	31.01	160.495	
9,196.08	9,169.04	5,012.00	4,912.90	32.46	12.95	34.100	1,773.82	1,810.31	5,057.16	5,025.99	31.17	162.244	
9,200.00	9,172.96	5,012.00	4,912.90	32.47	12.95	34.101	1,773.82	1,810.31	5,060.45	5,029.28	31.17	162.337	
9,250.00	9,222.88	5,012.00	4,912.90	32.64	12.95	34.124	1,773.82	1,810.31	5,101.34	5,070.14	31.20	163.512	
9,300.00	9,272.39	5,012.00	4,912.90	32.80	12.95	34.187	1,773.82	1,810.31	5,139.97	5,108.76	31.21	164.676	
9,350.00	9,321.11	5,012.00	4,912.90	32.96	12.95	34.291	1,773.82	1,810.31	5,176.11	5,144.89	31.22	165.806	

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference 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
Measured Depth (usft)	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)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
9,400.00	9,368.68	5,012.00	4,912.90	33.12	12.95	34.436	1,773.82	1,810.31	5,209.54	5,178.32	31.21	166.900			
9,450.00	9,414.73	5,012.00	4,912.90	33.26	12.95	34.621	1,773.82	1,810.31	5,240.05	5,208.85	31.20	167.956			
9,500.00	9,458.90	5,012.00	4,912.90	33.40	12.95	34.846	1,773.82	1,810.31	5,267.48	5,236.30	31.17	168.972			
9,550.00	9,500.88	5,012.00	4,912.90	33.53	12.95	35.113	1,773.82	1,810.31	5,291.65	5,260.51	31.14	169.946			
9,600.00	9,540.32	5,012.00	4,912.90	33.65	12.95	35.420	1,773.82	1,810.31	5,312.43	5,281.34	31.09	170.874			
9,650.00	9,576.94	5,012.00	4,912.90	33.77	12.95	35.768	1,773.82	1,810.31	5,329.70	5,298.67	31.03	171.755			
9,700.00	9,610.46	5,012.00	4,912.90	33.87	12.95	36.157	1,773.82	1,810.31	5,343.37	5,312.41	30.96	172.582			
9,750.00	9,640.61	5,028.36	4,918.70	33.96	13.08	36.326	1,788.79	1,807.17	5,353.02	5,322.04	30.98	172.779			
9,800.00	9,667.18	5,044.00	4,923.64	34.05	13.21	36.532	1,803.30	1,804.06	5,359.30	5,328.31	30.99	172.954			
9,850.00	9,689.96	5,044.00	4,923.64	34.13	13.21	37.028	1,803.30	1,804.06	5,361.50	5,330.62	30.89	173.588			
9,900.00	9,708.77	5,044.00	4,923.64	34.20	13.21	37.561	1,803.30	1,804.06	5,359.92	5,329.14	30.78	174.147			
9,950.00	9,723.48	5,044.00	4,923.64	34.27	13.21	38.130	1,803.30	1,804.06	5,354.55	5,323.89	30.66	174.623			
10,000.00	9,733.96	5,044.00	4,923.64	34.32	13.21	38.733	1,803.30	1,804.06	5,345.44	5,314.90	30.54	175.008			
10,050.00	9,740.15	5,044.00	4,923.64	34.37	13.21	39.368	1,803.30	1,804.06	5,332.63	5,302.21	30.42	175.295			
10,096.08	9,742.00	5,059.70	4,928.16	34.41	13.34	39.677	1,818.00	1,800.91	5,317.45	5,287.05	30.40	174.926			
10,100.00	9,742.00	5,060.19	4,928.30	34.41	13.35	39.720	1,818.46	1,800.82	5,316.03	5,285.64	30.39	174.905			
10,200.00	9,742.00	5,077.00	4,932.83	34.50	13.49	40.810	1,834.30	1,797.49	5,281.10	5,250.86	30.24	174.639			
10,300.00	9,742.00	5,140.00	4,948.64	34.62	14.07	41.045	1,893.44	1,782.71	5,247.85	5,217.46	30.39	172.681			
10,400.00	9,742.00	5,140.00	4,948.64	34.75	14.07	42.764	1,893.44	1,782.71	5,216.69	5,186.50	30.19	172.772			
10,500.00	9,742.00	5,155.06	4,951.88	34.91	14.22	44.320	1,907.57	1,778.61	5,187.95	5,157.82	30.12	172.227			
10,511.62	9,742.00	5,156.11	4,952.09	34.93	14.23	44.529	1,908.56	1,778.33	5,184.78	5,154.66	30.11	172.181			
10,600.00	9,742.00	5,172.00	4,955.01	35.09	14.39	45.975	1,923.56	1,773.98	5,161.49	5,131.39	30.09	171.522			
10,700.00	9,742.00	5,172.00	4,955.01	35.29	14.39	48.199	1,923.56	1,773.98	5,136.55	5,106.56	29.99	171.252			
10,800.00	9,742.00	5,189.91	4,957.87	35.51	14.58	50.072	1,940.54	1,769.08	5,113.26	5,083.24	30.02	170.309			
10,900.00	9,742.00	5,204.00	4,959.90	35.75	14.73	52.179	1,953.95	1,765.24	5,091.54	5,061.48	30.06	169.395			
11,000.00	9,742.00	5,204.00	4,959.90	36.00	14.73	54.871	1,953.95	1,765.24	5,071.58	5,041.53	30.05	168.785			
11,100.00	9,742.00	5,236.00	4,963.14	36.28	15.07	56.685	1,984.52	1,756.39	5,053.41	5,023.19	30.23	167.180			
11,200.00	9,742.00	5,236.00	4,963.14	36.58	15.07	59.707	1,984.52	1,756.39	5,036.66	5,006.39	30.28	166.354			
11,300.00	9,742.00	5,236.00	4,963.14	36.89	15.07	62.924	1,984.52	1,756.39	5,021.85	4,991.49	30.36	165.413			
11,400.00	9,742.00	5,236.00	4,963.14	37.22	15.07	66.335	1,984.52	1,756.39	5,008.99	4,978.52	30.48	164.361			
11,500.00	9,742.00	5,251.94	4,963.85	37.57	15.25	69.309	1,999.81	1,751.94	4,997.76	4,967.07	30.69	162.850			
11,600.00	9,742.00	5,266.00	4,963.94	37.93	15.40	72.497	2,013.33	1,748.06	4,988.54	4,957.62	30.92	161.337			
11,700.00	9,742.00	5,266.00	4,963.94	38.31	15.40	76.389	2,013.33	1,748.06	4,981.04	4,949.91	31.12	160.034			
11,800.00	9,742.00	5,281.42	4,963.64	38.71	15.58	79.776	2,028.15	1,743.86	4,975.39	4,943.97	31.42	158.376			
11,900.00	9,742.00	5,298.00	4,963.04	39.12	15.77	83.208	2,044.12	1,739.40	4,971.45	4,939.72	31.73	156.672			
12,000.00	9,742.00	5,523.45	4,956.56	39.55	18.63	77.884	2,261.49	1,680.00	4,967.13	4,934.18	32.96	150.720			
12,100.00	9,742.00	5,641.00	4,956.04	39.99	20.27	77.027	2,375.11	1,649.91	4,960.76	4,926.94	33.82	146.680			
12,200.00	9,742.00	5,641.00	4,956.04	40.44	20.27	81.375	2,375.11	1,649.91	4,956.00	4,921.90	34.09	145.375			
12,300.00	9,742.00	5,678.00	4,955.09	40.91	20.79	84.172	2,411.20	1,641.84	4,952.91	4,918.33	34.58	143.235			
12,400.00	9,742.00	5,678.00	4,955.09	41.39	20.79	88.682	2,411.20	1,641.84	4,951.45	4,916.56	34.89	141.913			
12,500.00	9,742.00	5,947.53	4,949.14	41.88	24.74	80.944	2,676.49	1,595.53	4,949.45	4,912.69	36.76	134.652			
12,600.00	9,742.00	6,059.00	4,949.16	42.39	26.42	80.351	2,786.56	1,577.93	4,945.66	4,907.89	37.77	130.945			
12,700.00	9,742.00	6,105.51	4,948.89	42.91	27.13	82.832	2,832.48	1,570.55	4,942.32	4,903.94	38.38	128.760			
12,800.00	9,742.00	6,177.00	4,948.26	43.43	28.24	84.171	2,903.07	1,559.24	4,939.53	4,900.36	39.17	126.107			
12,900.00	9,742.00	6,236.17	4,947.35	43.97	29.16	86.138	2,961.49	1,549.93	4,937.48	4,897.59	39.89	123.781			
13,000.00	9,742.00	6,268.00	4,946.52	44.52	29.66	89.470	2,992.92	1,544.93	4,936.59	4,896.15	40.44	122.068			
13,034.00	9,742.00	6,298.36	4,945.51	44.71	30.14	89.666	3,022.88	1,540.14	4,936.47	4,895.72	40.76	121.119			
13,100.00	9,742.00	6,328.46	4,944.29	45.08	30.62	91.453	3,052.58	1,535.38	4,936.71	4,895.52	41.19	119.863			
13,200.00	9,742.00	6,360.00	4,942.76	45.65	31.12	94.856	3,083.68	1,530.37	4,938.03	4,896.28	41.75	118.264			
13,300.00	9,742.00	6,413.79	4,939.52	46.23	31.97	97.204	3,136.68	1,521.77	4,940.46	4,897.99	42.47	116.327			
13,400.00	9,742.00	6,452.00	4,936.70	46.81	32.58	100.289	3,174.28	1,515.63	4,944.14	4,901.04	43.09	114.731			

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

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

Survey Program: 1572-MWD													Offset Site Error: 0.00 usft
Rule Assigned:													Offset Well Error: 0.00 usft
Measured Depth (usft)	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)	Minimum Separation (usft)	Separation Factor	Warning	
13,500.00	9,742.00	6,489.79	4,933.42	47.41	33.19	103.365	3,211.43	1,509.51	4,949.07	4,905.35	43.72	113.199	
13,600.00	9,742.00	6,541.00	4,928.12	48.01	34.01	105.813	3,261.67	1,501.12	4,955.39	4,910.96	44.43	111.529	
13,700.00	9,742.00	6,554.94	4,926.48	48.62	34.24	109.805	3,275.32	1,498.81	4,962.91	4,917.99	44.92	110.485	
13,800.00	9,742.00	6,583.45	4,922.78	49.24	34.70	113.053	3,303.18	1,494.02	4,971.97	4,926.47	45.50	109.278	
13,900.00	9,742.00	6,897.58	4,888.28	49.87	39.79	104.079	3,611.66	1,446.42	4,979.38	4,931.51	47.87	104.011	
14,000.00	9,742.00	6,955.00	4,883.22	50.50	40.72	106.346	3,668.20	1,437.79	4,985.12	4,936.47	48.65	102.470	
14,100.00	9,742.00	6,955.00	4,883.22	51.14	40.72	111.134	3,668.20	1,437.79	4,992.53	4,943.47	49.06	101.766	
14,200.00	9,742.00	6,955.00	4,883.22	51.79	40.72	115.627	3,668.20	1,437.79	5,001.93	4,952.46	49.47	101.109	
14,300.00	9,742.00	6,955.00	4,883.22	52.44	40.72	119.802	3,668.20	1,437.79	5,013.31	4,963.42	49.88	100.502	
14,400.00	9,742.00	6,955.00	4,883.22	53.10	40.72	123.653	3,668.20	1,437.79	5,026.65	4,976.35	50.29	99.944	
14,500.00	9,742.00	6,955.00	4,883.22	53.77	40.72	127.184	3,668.20	1,437.79	5,041.93	4,991.23	50.71	99.437	
14,600.00	9,742.00	6,955.00	4,883.22	54.44	40.72	130.410	3,668.20	1,437.79	5,059.15	5,008.04	51.11	98.980	
14,700.00	9,742.00	6,955.00	4,883.22	55.12	40.72	133.352	3,668.20	1,437.79	5,078.28	5,026.77	51.52	98.574	
14,800.00	9,742.00	6,955.00	4,883.22	55.80	40.72	136.031	3,668.20	1,437.79	5,099.30	5,047.39	51.92	98.219	
14,900.00	9,742.00	6,955.00	4,883.22	56.49	40.72	138.471	3,668.20	1,437.79	5,122.19	5,069.88	52.31	97.915	
15,000.00	9,742.00	6,955.00	4,883.22	57.18	40.72	140.695	3,668.20	1,437.79	5,146.92	5,094.22	52.70	97.661	
15,100.00	9,742.00	6,955.00	4,883.22	57.88	40.72	142.725	3,668.20	1,437.79	5,173.46	5,120.38	53.09	97.456	
15,200.00	9,742.00	6,955.00	4,883.22	58.58	40.72	144.580	3,668.20	1,437.79	5,201.79	5,148.33	53.46	97.301	
15,300.00	9,742.00	6,955.00	4,883.22	59.28	40.72	146.278	3,668.20	1,437.79	5,231.88	5,178.05	53.83	97.193	
15,400.00	9,742.00	6,955.00	4,883.22	59.99	40.72	147.837	3,668.20	1,437.79	5,263.70	5,209.51	54.19	97.133	
15,500.00	9,742.00	6,955.00	4,883.22	60.71	40.72	149.270	3,668.20	1,437.79	5,297.21	5,242.67	54.54	97.119	
15,600.00	9,742.00	6,955.00	4,883.22	61.42	40.72	150.591	3,668.20	1,437.79	5,332.39	5,277.50	54.89	97.150	
15,700.00	9,742.00	6,955.00	4,883.22	62.15	40.72	151.810	3,668.20	1,437.79	5,369.20	5,313.97	55.22	97.225	
15,800.00	9,742.00	6,955.00	4,883.22	62.87	40.72	152.939	3,668.20	1,437.79	5,407.61	5,352.06	55.55	97.343	
15,900.00	9,742.00	6,955.00	4,883.22	63.60	40.72	153.986	3,668.20	1,437.79	5,447.58	5,391.71	55.87	97.503	
16,000.00	9,742.00	6,955.00	4,883.22	64.33	40.72	154.959	3,668.20	1,437.79	5,489.09	5,432.91	56.18	97.704	
16,100.00	9,742.00	6,955.00	4,883.22	65.07	40.72	155.865	3,668.20	1,437.79	5,532.09	5,475.61	56.48	97.944	
16,200.00	9,742.00	6,955.00	4,883.22	65.81	40.72	156.711	3,668.20	1,437.79	5,576.56	5,519.78	56.78	98.222	
16,300.00	9,742.00	6,955.00	4,883.22	66.55	40.72	157.502	3,668.20	1,437.79	5,622.45	5,565.39	57.06	98.537	
16,400.00	9,742.00	6,955.00	4,883.22	67.29	40.72	158.242	3,668.20	1,437.79	5,669.73	5,612.39	57.34	98.887	
16,500.00	9,742.00	6,955.00	4,883.22	68.04	40.72	158.937	3,668.20	1,437.79	5,718.37	5,660.77	57.60	99.273	
16,600.00	9,742.00	6,955.00	4,883.22	68.79	40.72	159.590	3,668.20	1,437.79	5,768.34	5,710.47	57.86	99.691	
16,700.00	9,742.00	6,955.00	4,883.22	69.54	40.72	160.205	3,668.20	1,437.79	5,819.59	5,761.48	58.11	100.142	
16,800.00	9,742.00	6,955.00	4,883.22	70.30	40.72	160.784	3,668.20	1,437.79	5,872.10	5,813.74	58.36	100.623	
16,900.00	9,742.00	6,955.00	4,883.22	71.06	40.72	161.331	3,668.20	1,437.79	5,925.83	5,867.24	58.59	101.135	
17,000.00	9,742.00	6,955.00	4,883.22	71.82	40.72	161.849	3,668.20	1,437.79	5,980.76	5,921.93	58.82	101.675	
17,100.00	9,742.00	6,955.00	4,883.22	72.58	40.72	162.339	3,668.20	1,437.79	6,036.83	5,977.79	59.04	102.243	
17,200.00	9,742.00	6,955.00	4,883.22	73.35	40.72	162.803	3,668.20	1,437.79	6,094.04	6,034.78	59.26	102.837	
17,300.00	9,742.00	6,955.00	4,883.22	74.12	40.72	163.244	3,668.20	1,437.79	6,152.34	6,092.87	59.47	103.457	
17,400.00	9,742.00	6,955.00	4,883.22	74.89	40.72	163.663	3,668.20	1,437.79	6,211.70	6,152.03	59.67	104.102	
17,500.00	9,742.00	6,955.00	4,883.22	75.66	40.72	164.062	3,668.20	1,437.79	6,272.09	6,212.22	59.87	104.770	
17,600.00	9,742.00	6,955.00	4,883.22	76.43	40.72	164.442	3,668.20	1,437.79	6,333.49	6,273.43	60.06	105.461	
17,700.00	9,742.00	6,955.00	4,883.22	77.21	40.72	164.804	3,668.20	1,437.79	6,395.86	6,335.62	60.24	106.173	
17,800.00	9,742.00	6,955.00	4,883.22	77.99	40.72	165.150	3,668.20	1,437.79	6,459.17	6,398.75	60.42	106.906	
17,900.00	9,742.00	6,955.00	4,883.22	78.77	40.72	165.481	3,668.20	1,437.79	6,523.41	6,462.81	60.59	107.660	
18,000.00	9,742.00	6,955.00	4,883.22	79.55	40.72	165.797	3,668.20	1,437.79	6,588.53	6,527.77	60.76	108.432	
18,100.00	9,742.00	6,955.00	4,883.22	80.33	40.72	166.099	3,668.20	1,437.79	6,654.52	6,593.60	60.93	109.222	
18,200.00	9,742.00	6,955.00	4,883.22	81.12	40.72	166.389	3,668.20	1,437.79	6,721.36	6,660.27	61.09	110.030	
18,300.00	9,742.00	6,955.00	4,883.22	81.90	40.72	166.667	3,668.20	1,437.79	6,789.00	6,727.76	61.24	110.855	
18,400.00	9,742.00	6,955.00	4,883.22	82.69	40.72	166.934	3,668.20	1,437.79	6,857.44	6,796.05	61.39	111.696	

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

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

Survey Program: 1572-MWD														Offset Site Error:	0.00 usft
Reference														Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
18,500.00	9,742.00	6,955.00	4,883.22	83.48	40.72	167.190	3,668.20	1,437.79	6,926.65	6,865.10	61.54	112.552			
18,600.00	9,742.00	6,955.00	4,883.22	84.27	40.72	167.437	3,668.20	1,437.79	6,996.60	6,934.91	61.69	113.423			
18,700.00	9,742.00	6,955.00	4,883.22	85.07	40.72	167.673	3,668.20	1,437.79	7,067.27	7,005.44	61.83	114.307			
18,800.00	9,742.00	6,955.00	4,883.22	85.86	40.72	167.902	3,668.20	1,437.79	7,138.64	7,076.68	61.96	115.205			
18,900.00	9,742.00	6,955.00	4,883.22	86.66	40.72	168.121	3,668.20	1,437.79	7,210.70	7,148.60	62.10	116.116			
19,000.00	9,742.00	6,955.00	4,883.22	87.46	40.72	168.333	3,668.20	1,437.79	7,283.41	7,221.18	62.23	117.039			
19,100.00	9,742.00	6,955.00	4,883.22	88.25	40.72	168.537	3,668.20	1,437.79	7,356.77	7,294.41	62.36	117.974			
19,200.00	9,742.00	6,955.00	4,883.22	89.05	40.72	168.734	3,668.20	1,437.79	7,430.74	7,368.26	62.49	118.919			
19,300.00	9,742.00	6,955.00	4,883.22	89.85	40.72	168.925	3,668.20	1,437.79	7,505.32	7,442.72	62.61	119.875			
19,400.00	9,742.00	6,955.00	4,883.22	90.66	40.72	169.109	3,668.20	1,437.79	7,580.49	7,517.76	62.73	120.841			
19,500.00	9,742.00	6,955.00	4,883.22	91.46	40.72	169.286	3,668.20	1,437.79	7,656.22	7,593.37	62.85	121.817			
19,600.00	9,742.00	6,955.00	4,883.22	92.26	40.72	169.458	3,668.20	1,437.79	7,732.51	7,669.54	62.97	122.801			
19,700.00	9,742.00	6,955.00	4,883.22	93.07	40.72	169.625	3,668.20	1,437.79	7,809.33	7,746.25	63.08	123.794			
19,800.00	9,742.00	6,955.00	4,883.22	93.88	40.72	169.786	3,668.20	1,437.79	7,886.67	7,823.47	63.20	124.796			
19,900.00	9,742.00	6,955.00	4,883.22	94.69	40.72	169.942	3,668.20	1,437.79	7,964.51	7,901.21	63.31	125.805			
20,000.00	9,742.00	6,955.00	4,883.22	95.49	40.72	170.094	3,668.20	1,437.79	8,042.85	7,979.43	63.42	126.821			
20,032.45	9,742.00	6,955.00	4,883.22	95.76	40.72	170.142	3,668.20	1,437.79	8,068.37	8,004.91	63.45	127.152			

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference 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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.00	0.00	0.00	27.50	0.00	0.00	-116.880	-220.68	-435.37	488.88						
100.00	100.00	71.35	98.85	0.26	0.09	-116.858	-220.56	-435.53	488.19	487.84	0.35	1,388.294			
200.00	200.00	170.83	198.32	0.62	0.37	-116.779	-220.10	-436.12	488.52	487.52	0.99	491.500			
300.00	300.00	270.83	298.33	0.98	0.72	-116.703	-219.68	-436.72	488.86	487.16	1.70	287.186			
400.00	400.00	370.56	398.05	1.34	1.07	-116.630	-219.28	-437.32	489.22	486.81	2.41	203.063			
500.00	500.00	470.58	498.07	1.70	1.42	-116.564	-218.96	-437.94	489.63	486.51	3.12	157.074			
600.00	600.00	570.62	598.10	2.06	1.77	-116.514	-218.75	-438.48	490.02	486.19	3.83	128.098			
700.00	700.00	670.84	698.32	2.41	2.12	-116.473	-218.60	-438.97	490.39	485.85	4.53	108.155			
800.00	800.00	770.62	798.11	2.77	2.47	-116.423	-218.38	-439.47	490.74	485.49	5.24	93.625			
900.00	899.99	869.80	897.28	3.11	2.82	-116.266	-218.15	-440.08	491.24	485.31	5.93	82.836			
1,000.00	999.96	969.23	996.71	3.45	3.17	-115.910	-218.02	-440.83	492.03	485.42	6.61	74.452			
1,100.00	1,099.86	1,069.54	1,097.02	3.78	3.52	-115.373	-218.06	-441.53	492.99	485.69	7.30	67.572			
1,200.00	1,199.68	1,171.95	1,199.43	4.12	3.88	-114.635	-217.98	-441.99	493.86	485.87	7.99	61.787			
1,300.00	1,299.37	1,274.35	1,301.83	4.47	4.11	-113.744	-218.00	-441.75	494.43	485.86	8.57	57.703			
1,370.13	1,369.19	1,345.81	1,373.28	4.71	4.13	-113.005	-217.92	-441.25	494.68	485.85	8.83	56.039			
1,400.00	1,398.91	1,376.71	1,404.18	4.81	4.14	-112.678	-217.92	-440.94	494.75	485.81	8.94	55.315			
1,500.00	1,498.42	1,476.30	1,503.76	5.16	4.20	-111.573	-217.76	-439.72	494.89	485.54	9.35	52.921			
1,600.00	1,597.92	1,578.84	1,606.30	5.51	4.29	-110.473	-217.53	-438.26	495.00	485.20	9.79	50.542			
1,700.00	1,697.43	1,680.04	1,707.48	5.87	4.40	-109.374	-217.19	-436.43	494.89	484.63	10.27	48.211			
1,800.00	1,796.93	1,780.23	1,807.64	6.22	4.54	-108.259	-216.57	-434.23	494.50	483.74	10.76	45.950			
1,820.40	1,817.23	1,799.87	1,827.27	6.30	4.58	-108.029	-216.44	-433.83	494.49	483.62	10.87	45.508			
1,900.00	1,896.44	1,878.11	1,905.50	6.58	4.71	-107.137	-216.05	-432.47	494.71	483.43	11.28	43.854			
2,000.00	1,995.94	1,977.17	2,004.55	6.94	4.89	-105.976	-215.18	-430.79	495.12	483.30	11.82	41.884			
2,100.00	2,095.45	2,075.06	2,102.43	7.30	5.09	-104.824	-214.44	-429.42	496.04	483.66	12.38	40.070			
2,200.00	2,194.95	2,173.98	2,201.34	7.66	5.30	-103.745	-214.35	-428.14	497.42	484.47	12.95	38.397			
2,300.00	2,294.46	2,280.34	2,307.66	8.02	5.55	-102.789	-215.08	-425.94	498.40	484.84	13.56	36.752			
2,400.00	2,393.97	2,377.55	2,404.84	8.38	5.79	-101.841	-215.76	-423.31	498.90	484.74	14.16	35.226			
2,500.00	2,493.47	2,469.00	2,496.28	8.74	6.02	-100.786	-215.72	-421.95	500.59	485.83	14.76	33.921			
2,600.00	2,592.98	2,564.94	2,592.21	9.11	6.27	-99.618	-214.82	-421.90	503.70	488.34	15.36	32.783			
2,700.00	2,692.48	2,665.84	2,693.10	9.47	6.54	-98.389	-213.31	-422.31	507.39	491.40	15.99	31.730			
2,800.00	2,791.99	2,766.46	2,793.71	9.83	6.81	-97.295	-212.79	-422.25	510.97	494.34	16.63	30.726			
2,900.00	2,891.49	2,868.59	2,895.85	10.20	7.11	-96.289	-212.86	-421.54	514.17	496.89	17.29	29.746			
3,000.00	2,991.00	2,968.53	2,995.78	10.56	7.40	-95.318	-213.11	-420.69	517.39	499.45	17.94	28.840			
3,100.00	3,090.50	3,067.01	3,094.26	10.92	7.69	-94.336	-213.15	-419.81	520.70	502.10	18.60	28.000			
3,200.00	3,190.01	3,161.25	3,188.50	11.29	7.97	-93.383	-213.38	-419.55	524.78	505.54	19.23	27.287			
3,300.00	3,289.51	3,260.36	3,287.60	11.65	8.26	-92.433	-213.50	-419.74	529.47	509.59	19.88	26.634			
3,400.00	3,389.02	3,358.82	3,386.07	12.02	8.55	-91.443	-213.12	-420.34	534.69	514.16	20.53	26.046			
3,500.00	3,488.52	3,454.80	3,482.04	12.38	8.83	-90.450	-212.52	-421.04	540.21	519.03	21.17	25.514			
3,600.00	3,588.03	3,557.09	3,584.32	12.75	9.14	-89.456	-211.72	-421.99	546.07	524.22	21.85	24.996			
3,700.00	3,687.53	3,657.20	3,684.42	13.11	9.45	-88.540	-211.46	-422.65	551.80	529.29	22.51	24.511			
3,800.00	3,787.04	3,760.03	3,787.26	13.48	9.77	-87.612	-210.93	-422.85	557.24	534.04	23.20	24.019			
3,900.00	3,886.55	3,859.46	3,886.68	13.85	10.09	-86.638	-209.79	-422.67	562.47	538.59	23.88	23.555			
4,000.00	3,986.05	3,959.28	3,986.49	14.21	10.41	-85.663	-208.44	-422.62	568.01	543.45	24.56	23.125			
4,100.00	4,085.56	4,049.72	4,076.92	14.58	10.70	-84.730	-207.30	-422.83	574.01	548.81	25.20	22.776			
4,200.00	4,185.06	4,142.54	4,169.71	14.94	11.00	-83.881	-206.61	-425.03	582.17	556.33	25.85	22.524			
4,300.00	4,284.57	4,254.83	4,281.98	15.31	11.36	-83.111	-206.50	-427.16	589.99	563.40	26.59	22.191			
4,400.00	4,384.07	4,357.82	4,384.97	15.68	11.69	-82.371	-206.79	-427.10	595.87	568.58	27.29	21.838			
4,500.00	4,483.58	4,460.75	4,487.89	16.04	12.03	-81.648	-207.14	-426.73	601.55	573.56	27.99	21.495			
4,600.00	4,583.08	4,549.34	4,571.05	16.41	12.38	-80.930	-207.44	-426.26	607.23	578.54	28.69	21.152			
4,700.00	4,682.59	4,643.19	4,664.25	16.78	12.73	-80.216	-207.69	-425.79	612.91	583.52	29.39	20.810			
4,800.00	4,782.09	4,742.00	4,763.25	17.14	13.08	-79.506	-207.89	-425.32	618.59	588.50	30.09	20.468			

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

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

Survey Program: 100-GYRO-NS, 1256-MWD										Rule Assigned:				Offset Site Error:
Reference										Distance				Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,900.00	4,881.60	5,425.00	5,117.25	17.51	18.82	-20.150	-166.42	128.49	292.45	267.22	25.23	11.593		
5,000.00	4,981.10	5,436.60	5,118.34	17.88	19.01	-17.059	-163.80	139.74	227.81	196.65	31.16	7.312		
5,100.00	5,080.61	5,449.22	5,119.47	18.24	19.21	-13.952	-160.97	151.98	194.83	158.17	36.66	5.314		
5,120.71	5,101.22	5,451.73	5,119.69	18.32	19.25	-13.376	-160.41	154.42	193.75	156.61	37.14	5.217	CC, ES, SF	
5,200.00	5,180.11	5,460.88	5,120.47	18.61	19.39	-11.403	-158.38	163.31	209.14	173.15	35.99	5.811		
5,300.00	5,279.62	5,472.31	5,121.46	18.98	19.58	-9.157	-155.84	174.40	263.17	231.89	31.28	8.414		
5,400.00	5,379.12	5,484.14	5,122.52	19.34	19.77	-7.011	-153.19	185.88	338.39	311.17	27.22	12.431		
5,500.00	5,478.63	5,495.47	5,123.54	19.71	19.96	-5.180	-150.63	196.88	423.65	399.09	24.56	17.247		
5,600.00	5,578.14	5,505.82	5,124.45	20.08	20.14	-3.739	-148.30	206.92	514.00	491.11	22.89	22.455		
5,700.00	5,677.64	5,515.63	5,125.28	20.44	20.30	-2.538	-146.09	216.44	607.20	585.36	21.83	27.810		
5,800.00	5,777.15	5,524.15	5,125.97	20.81	20.45	-1.706	-144.17	224.72	702.12	680.97	21.15	33.196		
5,900.00	5,876.65	5,531.64	5,126.55	21.18	20.58	-1.150	-142.49	231.99	798.18	777.47	20.71	38.545		
6,000.00	5,976.16	5,538.55	5,127.05	21.54	20.69	-0.747	-140.93	238.71	895.02	874.59	20.43	43.810		
6,100.00	6,075.66	5,544.96	5,127.49	21.91	20.81	-0.468	-139.49	244.93	992.42	972.15	20.26	48.972		
6,200.00	6,175.17	5,551.00	5,127.89	22.28	20.91	-0.275	-138.13	250.81	1,090.23	1,070.05	20.18	54.017		
6,300.00	6,274.67	5,551.00	5,127.89	22.65	20.91	-1.174	-138.13	250.81	1,188.39	1,168.29	20.10	59.131		
6,400.00	6,374.18	5,551.00	5,127.89	23.01	20.91	-2.024	-138.13	250.81	1,286.83	1,266.76	20.07	64.122		
6,456.91	6,430.81	5,561.05	5,128.47	23.22	21.09	-0.762	-135.86	260.58	1,342.86	1,322.69	20.18	66.556		
6,500.00	6,473.70	5,562.51	5,128.55	23.38	21.11	-0.860	-135.53	262.00	1,385.36	1,365.16	20.20	68.587		
6,600.00	6,573.35	5,565.57	5,128.71	23.75	21.17	-1.036	-134.84	264.97	1,483.95	1,463.69	20.26	73.249		
6,700.00	6,673.13	5,568.19	5,128.83	24.11	21.21	-1.135	-134.25	267.52	1,582.50	1,562.17	20.33	77.834		
6,800.00	6,773.02	5,570.43	5,128.93	24.47	21.25	-1.155	-133.74	269.71	1,680.99	1,660.57	20.42	82.336		
6,900.00	6,872.97	5,572.33	5,129.01	24.82	21.28	-1.093	-133.31	271.56	1,779.40	1,758.89	20.51	86.750		
7,000.00	6,972.96	5,583.00	5,129.41	25.18	21.47	0.476	-130.89	281.94	1,877.79	1,857.09	20.69	90.737		
7,027.04	7,000.00	5,583.00	5,129.41	25.27	21.47	0.471	-130.89	281.94	1,904.36	1,883.63	20.72	91.906		
7,100.00	7,072.96	5,583.00	5,129.41	25.51	21.47	0.471	-130.89	281.94	1,976.07	1,955.27	20.80	95.006		
7,200.00	7,172.96	5,583.00	5,129.41	25.83	21.47	0.471	-130.89	281.94	2,074.50	2,053.57	20.92	99.146		
7,300.00	7,272.96	5,583.00	5,129.41	26.16	21.47	0.471	-130.89	281.94	2,173.07	2,152.01	21.06	103.162		
7,400.00	7,372.96	5,583.00	5,129.41	26.48	21.47	0.471	-130.89	281.94	2,271.78	2,250.56	21.22	107.059		
7,500.00	7,472.96	5,583.00	5,129.41	26.81	21.47	0.471	-130.89	281.94	2,370.59	2,349.20	21.39	110.840		
7,600.00	7,572.96	5,583.00	5,129.41	27.14	21.47	0.471	-130.89	281.94	2,469.49	2,447.92	21.57	114.508		
7,700.00	7,672.96	5,583.00	5,129.41	27.47	21.47	0.471	-130.89	281.94	2,568.48	2,546.73	21.75	118.068		
7,800.00	7,772.96	5,583.00	5,129.41	27.79	21.47	0.471	-130.89	281.94	2,667.55	2,645.60	21.95	121.521		
7,900.00	7,872.96	5,583.00	5,129.41	28.12	21.47	0.471	-130.89	281.94	2,766.68	2,744.52	22.16	124.871		
8,000.00	7,972.96	5,583.00	5,129.41	28.46	21.47	0.471	-130.89	281.94	2,865.87	2,843.50	22.37	128.121		
8,100.00	8,072.96	5,583.00	5,129.41	28.79	21.47	0.471	-130.89	281.94	2,965.12	2,942.53	22.59	131.274		
8,200.00	8,172.96	5,583.00	5,129.41	29.12	21.47	0.471	-130.89	281.94	3,064.42	3,041.60	22.81	134.332		
8,300.00	8,272.96	5,583.00	5,129.41	29.45	21.47	0.471	-130.89	281.94	3,163.76	3,140.71	23.04	137.298		
8,400.00	8,372.96	5,583.00	5,129.41	29.78	21.47	0.471	-130.89	281.94	3,263.14	3,239.86	23.28	140.174		
8,500.00	8,472.96	5,583.00	5,129.41	30.12	21.47	0.471	-130.89	281.94	3,362.55	3,339.03	23.52	142.963		
8,600.00	8,572.96	5,592.90	5,129.70	30.45	21.65	2.003	-128.62	291.57	3,461.97	3,438.14	23.83	145.291		
8,700.00	8,672.96	5,594.01	5,129.73	30.79	21.67	2.175	-128.36	292.65	3,561.45	3,537.36	24.08	147.871		
8,800.00	8,772.96	5,595.10	5,129.76	31.12	21.69	2.341	-128.11	293.70	3,660.95	3,636.60	24.35	150.372		
8,900.00	8,872.96	5,596.15	5,129.79	31.46	21.71	2.501	-127.87	294.73	3,760.47	3,735.86	24.61	152.796		
9,000.00	8,972.96	5,597.16	5,129.81	31.80	21.73	2.657	-127.63	295.72	3,860.03	3,835.15	24.88	155.145		
9,100.00	9,072.96	5,598.15	5,129.84	32.13	21.74	2.808	-127.40	296.68	3,959.60	3,934.45	25.15	157.421		
9,196.08	9,169.04	5,599.08	5,129.86	32.46	21.76	2.948	-127.19	297.58	4,059.29	4,029.87	25.42	159.541		
9,200.00	9,172.96	5,599.12	5,129.86	32.47	21.76	2.954	-127.18	297.61	4,059.19	4,033.76	25.43	159.626		
9,250.00	9,222.88	5,599.93	5,129.88	32.64	21.78	3.043	-126.99	298.40	4,108.70	4,083.13	25.57	160.715		
9,300.00	9,272.39	5,601.32	5,129.92	32.80	21.80	3.163	-126.66	299.75	4,157.44	4,131.74	25.70	161.799		

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference 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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
9,350.00	9,321.11	5,603.26	5,129.97	32.96	21.84	3.317	-126.21	301.64	4,205.07	4,179.25	25.82	162.866			
9,400.00	9,368.68	5,615.00	5,130.22	33.12	22.05	5.047	-123.43	313.05	4,251.30	4,225.31	25.99	163.571			
9,450.00	9,414.73	5,615.00	5,130.22	33.26	22.05	4.863	-123.43	313.05	4,295.76	4,269.68	26.08	164.685			
9,500.00	9,458.90	5,615.00	5,130.22	33.40	22.05	4.608	-123.43	313.05	4,338.22	4,312.05	26.17	165.769			
9,550.00	9,500.88	5,615.00	5,130.22	33.53	22.05	4.254	-123.43	313.05	4,378.40	4,352.16	26.25	166.811			
9,600.00	9,540.32	5,615.00	5,130.22	33.65	22.05	3.754	-123.43	313.05	4,416.08	4,389.76	26.32	167.796			
9,650.00	9,576.94	5,628.69	5,130.46	33.77	22.29	6.771	-120.17	326.34	4,450.99	4,424.53	26.46	168.220			
9,700.00	9,610.46	5,635.47	5,130.56	33.87	22.42	8.693	-118.55	332.93	4,482.96	4,456.40	26.56	168.812			
9,750.00	9,640.61	5,646.00	5,130.69	33.96	22.61	13.191	-116.05	343.15	4,511.80	4,485.13	26.67	169.175			
9,800.00	9,667.18	5,646.00	5,130.69	34.05	22.61	15.685	-116.05	343.15	4,537.34	4,510.62	26.72	169.794			
9,850.00	9,689.96	5,646.00	5,130.69	34.13	22.61	23.393	-116.05	343.15	4,559.48	4,532.71	26.78	170.279			
9,900.00	9,708.77	5,661.34	5,130.82	34.20	22.89	93.456	-112.48	358.07	4,578.02	4,551.10	26.92	170.077			
9,950.00	9,723.48	5,677.00	5,130.86	34.27	23.18	142.613	-109.02	373.34	4,592.97	4,565.91	27.06	169.710			
10,000.00	9,733.96	5,677.00	5,130.86	34.32	23.18	163.433	-109.02	373.34	4,604.14	4,577.01	27.13	169.713			
10,050.00	9,740.15	5,677.00	5,130.86	34.37	23.18	171.639	-109.02	373.34	4,611.55	4,584.35	27.20	169.529			
10,096.08	9,742.00	5,677.00	5,130.86	34.41	23.18	175.572	-109.02	373.34	4,615.01	4,587.73	27.28	169.185			
10,100.00	9,742.00	5,677.00	5,130.86	34.41	23.18	175.821	-109.02	373.34	4,615.17	4,587.89	27.28	169.151			
10,200.00	9,742.00	5,695.06	5,130.77	34.50	23.53	176.095	-105.16	390.98	4,620.24	4,592.65	27.59	167.433			
10,300.00	9,742.00	5,710.00	5,130.58	34.62	23.81	176.178	-102.00	405.58	4,627.47	4,599.52	27.95	165.558			
10,400.00	9,742.00	5,752.55	5,130.07	34.75	24.63	172.548	-92.82	447.13	4,636.74	4,608.20	28.53	162.508			
10,500.00	9,742.00	5,772.00	5,129.90	34.91	25.01	172.070	-88.58	466.11	4,647.96	4,618.91	29.04	160.032			
10,511.62	9,742.00	5,772.00	5,129.90	34.93	25.01	172.223	-88.58	466.11	4,649.40	4,620.30	29.09	159.808			
10,600.00	9,742.00	5,789.13	5,129.74	35.09	25.35	171.748	-84.90	482.84	4,661.24	4,631.64	29.60	157.467			
10,700.00	9,742.00	5,804.00	5,129.58	35.29	25.64	171.672	-81.80	497.38	4,676.59	4,646.39	30.20	154.873			
10,800.00	9,742.00	5,804.00	5,129.58	35.51	25.64	172.589	-81.80	497.38	4,693.97	4,663.23	30.74	152.699			
10,900.00	9,742.00	5,819.69	5,129.37	35.75	25.95	172.395	-78.61	512.74	4,713.36	4,681.93	31.43	149.959			
11,000.00	9,742.00	5,835.00	5,129.13	36.00	26.26	172.257	-75.57	527.75	4,734.76	4,702.60	32.16	147.226			
11,100.00	9,742.00	5,839.95	5,129.04	36.28	26.36	172.649	-74.60	532.60	4,758.11	4,725.26	32.85	144.852			
11,200.00	9,742.00	5,880.35	5,128.41	36.58	27.18	171.377	-66.71	572.22	4,783.36	4,749.52	33.84	141.349			
11,300.00	9,742.00	5,940.95	5,127.88	36.89	28.43	169.436	-54.45	631.55	4,810.26	4,775.22	35.05	137.249			
11,400.00	9,742.00	5,951.12	5,127.81	37.22	28.64	169.736	-52.41	641.52	4,839.01	4,803.14	35.87	134.889			
11,500.00	9,742.00	5,960.00	5,127.75	37.57	28.82	170.046	-50.66	650.23	4,869.60	4,832.89	36.71	132.657			
11,600.00	9,742.00	5,960.00	5,127.75	37.93	28.82	170.626	-50.66	650.23	4,902.02	4,864.55	37.48	130.805			
11,700.00	9,742.00	5,973.99	5,127.63	38.31	29.11	170.683	-47.97	663.96	4,936.21	4,897.82	38.38	128.600			
11,800.00	9,742.00	5,980.50	5,127.55	38.71	29.25	170.967	-46.74	670.35	4,972.16	4,932.93	39.23	126.742			
11,900.00	9,742.00	5,992.00	5,127.38	39.12	29.49	171.074	-44.59	681.65	5,009.83	4,969.70	40.13	124.833			
12,000.00	9,742.00	5,992.00	5,127.38	39.55	29.49	171.493	-44.59	681.65	5,049.16	5,008.24	40.92	123.392			
12,100.00	9,742.00	5,992.00	5,127.38	39.99	29.49	171.873	-44.59	681.65	5,090.16	5,048.45	41.70	122.054			
12,200.00	9,742.00	5,992.00	5,127.38	40.44	29.49	172.220	-44.59	681.65	5,132.77	5,090.29	42.48	120.819			
12,300.00	9,742.00	5,992.00	5,127.38	40.91	29.49	172.538	-44.59	681.65	5,176.97	5,133.71	43.26	119.684			
12,400.00	9,742.00	5,992.00	5,127.38	41.39	29.49	172.829	-44.59	681.65	5,222.71	5,178.69	44.02	118.646			
12,500.00	9,742.00	6,005.97	5,127.09	41.88	29.79	172.784	-42.10	695.39	5,269.82	5,224.89	44.94	117.269			
12,600.00	9,742.00	6,008.45	5,127.02	42.39	29.84	172.991	-41.67	697.83	5,318.47	5,272.76	45.71	116.341			
12,700.00	9,742.00	6,024.00	5,126.50	42.91	30.17	172.910	-39.14	713.16	5,368.65	5,322.01	46.64	115.104			
12,800.00	9,742.00	6,024.00	5,126.50	43.43	30.17	173.148	-39.14	713.16	5,420.06	5,372.69	47.37	114.423			
12,900.00	9,742.00	6,024.00	5,126.50	43.97	30.17	173.370	-39.14	713.16	5,472.81	5,424.73	48.08	113.823			
13,000.00	9,742.00	6,024.00	5,126.50	44.52	30.17	173.578	-39.14	713.16	5,526.86	5,478.08	48.78	113.299			
13,100.00	9,742.00	6,024.00	5,126.50	45.08	30.17	173.772	-39.14	713.16	5,582.19	5,532.72	49.47	112.848			
13,200.00	9,742.00	6,024.00	5,126.50	45.65	30.17	173.954	-39.14	713.16	5,638.74	5,588.61	50.14	112.467			
13,300.00	9,742.00	6,024.00	5,126.50	46.23	30.17	174.126	-39.14	713.16	5,696.49	5,645.70	50.79	112.152			
13,400.00	9,742.00	6,024.00	5,126.50	46.81	30.17	174.287	-39.14	713.16	5,755.40	5,703.97	51.43	111.899			

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

Offset Design: Double Stamp - Offsets (NAD 83) - Belco AIA Federal 4H - Wellbore #1 - Surveys													Offset Site Error:
Survey Program: 100-GYRO-NS, 1256-MWD													Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,500.00	9,742.00	6,024.00	5,126.50	47.41	30.17	174.440	-39.14	713.16	5,815.43	5,763.37	52.06	111.707	
13,600.00	9,742.00	6,151.00	5,121.44	48.01	32.90	172.586	-18.46	838.36	5,876.47	5,821.94	54.53	107.759	
13,700.00	9,742.00	6,151.00	5,121.44	48.62	32.90	172.776	-18.46	838.36	5,938.31	5,883.15	55.16	107.665	
13,800.00	9,742.00	6,151.00	5,121.44	49.24	32.90	172.956	-18.46	838.36	6,001.18	5,945.41	55.76	107.620	
13,900.00	9,742.00	6,165.32	5,120.99	49.87	33.22	172.918	-16.11	852.47	6,064.98	6,008.41	56.58	107.199	
14,000.00	9,742.00	6,169.61	5,120.87	50.50	33.31	173.025	-15.44	856.71	6,129.77	6,072.55	57.22	107.118	
14,100.00	9,742.00	6,308.00	5,120.27	51.14	36.37	171.265	4.07	993.69	6,195.41	6,135.35	60.06	103.159	
14,200.00	9,742.00	6,308.00	5,120.27	51.79	36.37	171.464	4.07	993.69	6,261.74	6,201.11	60.63	103.273	
14,300.00	9,742.00	6,308.00	5,120.27	52.44	36.37	171.653	4.07	993.69	6,328.95	6,267.76	61.19	103.425	
14,400.00	9,742.00	6,308.00	5,120.27	53.10	36.37	171.834	4.07	993.69	6,397.02	6,335.28	61.74	103.613	
14,500.00	9,742.00	6,308.00	5,120.27	53.77	36.37	172.008	4.07	993.69	6,465.92	6,403.65	62.27	103.835	
14,600.00	9,742.00	6,308.00	5,120.27	54.44	36.37	172.173	4.07	993.69	6,535.63	6,472.84	62.79	104.089	
14,700.00	9,742.00	6,308.00	5,120.27	55.12	36.37	172.332	4.07	993.69	6,606.11	6,542.82	63.29	104.374	
14,800.00	9,742.00	6,308.00	5,120.27	55.80	36.37	172.484	4.07	993.69	6,677.35	6,613.56	63.78	104.687	
14,900.00	9,742.00	6,308.00	5,120.27	56.49	36.37	172.630	4.07	993.69	6,749.31	6,685.05	64.26	105.029	
15,000.00	9,742.00	6,308.00	5,120.27	57.18	36.37	172.771	4.07	993.69	6,821.99	6,757.26	64.73	105.397	
15,100.00	9,742.00	6,322.32	5,120.40	57.88	36.69	172.745	5.88	1,007.90	6,895.24	6,829.80	65.44	105.363	
15,200.00	9,742.00	6,323.97	5,120.40	58.58	36.73	172.860	6.08	1,009.54	6,969.24	6,903.32	65.92	105.729	
15,300.00	9,742.00	6,338.00	5,120.41	59.28	37.04	172.837	7.71	1,023.47	7,043.95	6,977.34	66.61	105.751	
15,400.00	9,742.00	6,338.00	5,120.41	59.99	37.04	172.963	7.71	1,023.47	7,119.18	7,052.15	67.03	106.206	
15,500.00	9,742.00	6,338.00	5,120.41	60.71	37.04	173.085	7.71	1,023.47	7,195.02	7,127.58	67.44	106.683	
15,600.00	9,742.00	6,338.00	5,120.41	61.42	37.04	173.202	7.71	1,023.47	7,271.45	7,203.60	67.84	107.178	
15,700.00	9,742.00	6,338.00	5,120.41	62.15	37.04	173.315	7.71	1,023.47	7,348.44	7,280.20	68.24	107.692	
15,800.00	9,742.00	6,338.00	5,120.41	62.87	37.04	173.425	7.71	1,023.47	7,425.97	7,357.36	68.62	108.224	
15,900.00	9,742.00	6,338.00	5,120.41	63.60	37.04	173.531	7.71	1,023.47	7,504.04	7,435.05	68.99	108.773	
16,000.00	9,742.00	6,338.00	5,120.41	64.33	37.04	173.633	7.71	1,023.47	7,582.63	7,513.28	69.35	109.337	
16,100.00	9,742.00	6,338.00	5,120.41	65.07	37.04	173.732	7.71	1,023.47	7,661.71	7,592.00	69.70	109.917	
16,200.00	9,742.00	6,338.00	5,120.41	65.81	37.04	173.828	7.71	1,023.47	7,741.28	7,671.23	70.05	110.511	
16,300.00	9,742.00	6,338.00	5,120.41	66.55	37.04	173.920	7.71	1,023.47	7,821.31	7,750.93	70.39	111.120	
16,400.00	9,742.00	6,348.94	5,120.36	67.29	37.29	173.912	8.91	1,034.34	7,901.78	7,830.85	70.93	111.398	
16,500.00	9,742.00	6,352.96	5,120.34	68.04	37.38	173.966	9.35	1,038.34	7,982.70	7,911.36	71.34	111.903	
16,600.00	9,742.00	6,356.93	5,120.32	68.79	37.47	174.018	9.78	1,042.29	8,064.04	7,992.31	71.73	112.421	
16,700.00	9,742.00	6,370.00	5,120.23	69.54	37.76	173.990	11.18	1,055.28	8,145.80	8,073.50	72.30	112.662	
16,800.00	9,742.00	6,370.00	5,120.23	70.30	37.76	174.074	11.18	1,055.28	8,227.94	8,155.33	72.61	113.324	
16,900.00	9,742.00	6,370.00	5,120.23	71.06	37.76	174.155	11.18	1,055.28	8,310.47	8,237.57	72.90	113.997	
17,000.00	9,742.00	6,370.00	5,120.23	71.82	37.76	174.234	11.18	1,055.28	8,393.38	8,320.19	73.19	114.679	
17,100.00	9,742.00	6,370.00	5,120.23	72.58	37.76	174.311	11.18	1,055.28	8,476.66	8,403.18	73.47	115.370	
17,200.00	9,742.00	6,370.00	5,120.23	73.35	37.76	174.385	11.18	1,055.28	8,560.29	8,486.54	73.75	116.071	
17,300.00	9,742.00	6,383.39	5,120.15	74.12	38.07	174.353	12.57	1,068.60	8,644.25	8,569.95	74.30	116.343	
17,400.00	9,742.00	6,386.90	5,120.14	74.89	38.14	174.398	12.93	1,072.09	8,728.55	8,653.91	74.64	116.942	
17,500.00	9,742.00	6,390.32	5,120.12	75.66	38.22	174.442	13.27	1,075.50	8,813.18	8,738.21	74.97	117.552	
17,600.00	9,742.00	6,402.00	5,120.08	76.43	38.48	174.423	14.41	1,087.12	8,898.14	8,822.67	75.47	117.896	
17,700.00	9,742.00	6,402.00	5,120.08	77.21	38.48	174.491	14.41	1,087.12	8,983.38	8,907.66	75.73	118.629	
17,800.00	9,742.00	6,402.00	5,120.08	77.99	38.48	174.558	14.41	1,087.12	9,068.93	8,992.96	75.97	119.368	
17,900.00	9,742.00	6,402.00	5,120.08	78.77	38.48	174.622	14.41	1,087.12	9,154.77	9,078.55	76.22	120.114	
18,000.00	9,742.00	6,402.00	5,120.08	79.55	38.48	174.686	14.41	1,087.12	9,240.89	9,164.44	76.46	120.866	
18,100.00	9,742.00	6,402.00	5,120.08	80.33	38.48	174.747	14.41	1,087.12	9,327.29	9,250.60	76.69	121.623	
18,200.00	9,742.00	6,402.00	5,120.08	81.12	38.48	174.808	14.41	1,087.12	9,413.96	9,337.04	76.92	122.386	
18,300.00	9,742.00	6,402.00	5,120.08	81.90	38.48	174.866	14.41	1,087.12	9,500.89	9,423.75	77.15	123.155	
18,400.00	9,742.00	6,402.00	5,120.08	82.69	38.48	174.924	14.41	1,087.12	9,588.08	9,510.71	77.37	123.928	

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference 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	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor			
18,500.00	9,742.00	6,402.00	5,120.08	83.48	38.48	174.980	14.41	1,087.12	9,675.52	9,597.93	77.59	124.706			
18,600.00	9,742.00	6,414.98	5,120.04	84.27	38.78	174.948	15.61	1,100.04	9,763.15	9,685.06	78.08	125.037			
18,700.00	9,742.00	6,416.62	5,120.03	85.07	38.82	174.991	15.76	1,101.67	9,851.05	9,772.72	78.33	125.764			
18,800.00	9,742.00	6,418.23	5,120.03	85.86	38.85	175.034	15.90	1,103.28	9,939.17	9,860.60	78.57	126.495			

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

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

Survey Program: 100-GYRO-NS, 1245-MWD										Rule Assigned:				Offset Site Error:
Reference Offset										Distance				Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.50	0.00	0.00	-113.962	-351.99	-792.00	866.69					
100.00	100.00	98.05	98.55	0.26	0.13	-113.966	-352.08	-792.05	866.78	866.38	0.39	2,209.654		
200.00	200.00	197.75	198.25	0.62	0.47	-113.975	-352.29	-792.16	866.96	865.87	1.10	791.337		
300.00	300.00	293.92	294.41	0.98	0.81	-113.984	-352.57	-792.47	867.38	865.59	1.79	484.303		
400.00	400.00	390.57	391.07	1.34	1.15	-113.993	-353.02	-793.16	868.22	865.73	2.49	348.908		
500.00	500.00	492.21	492.70	1.70	1.51	-114.005	-353.59	-793.98	869.18	865.98	3.20	271.353		
600.00	600.00	595.59	596.08	2.06	1.87	-114.016	-354.00	-794.53	869.83	865.91	3.92	221.670		
700.00	700.00	696.82	697.31	2.41	2.22	-114.028	-354.34	-794.79	870.21	865.57	4.64	187.665		
800.00	800.00	796.50	796.99	2.77	2.57	-114.038	-354.61	-795.03	870.53	865.19	5.34	162.880		
900.00	899.99	896.90	897.39	3.11	2.92	-113.969	-354.57	-795.40	870.94	864.90	6.04	144.244		
1,000.00	999.96	995.76	996.24	3.45	3.27	-113.764	-354.24	-795.93	871.57	864.86	6.71	129.814		
1,100.00	1,099.86	1,093.28	1,093.76	3.78	3.61	-113.443	-353.96	-796.65	872.60	865.21	7.39	118.064		
1,200.00	1,199.68	1,198.82	1,199.30	4.12	3.85	-113.003	-353.69	-797.66	874.09	866.12	7.97	109.627		
1,300.00	1,299.37	1,307.86	1,308.33	4.47	3.96	-112.439	-352.65	-797.30	874.37	865.94	8.42	103.785		
1,370.13	1,369.19	1,380.14	1,380.60	4.71	3.99	-111.968	-351.69	-796.78	874.41	865.71	8.70	100.508		
1,400.00	1,398.91	1,410.39	1,410.85	4.81	4.02	-111.756	-351.26	-796.52	874.42	865.59	8.83	99.070		
1,456.99	1,455.62	1,467.94	1,468.39	5.01	4.06	-111.353	-350.45	-795.96	874.42	865.35	9.07	96.416		
1,500.00	1,498.42	1,508.76	1,509.20	5.16	4.10	-111.049	-349.87	-795.59	874.48	865.22	9.26	94.417		
1,600.00	1,597.92	1,606.54	1,606.97	5.51	4.21	-110.330	-348.42	-795.05	875.01	865.28	9.73	89.957		
1,700.00	1,697.43	1,706.31	1,706.72	5.87	4.36	-109.606	-346.86	-794.47	875.62	865.40	10.22	85.659		
1,800.00	1,796.93	1,808.06	1,808.46	6.22	4.52	-108.874	-345.13	-793.86	876.32	865.57	10.75	81.548		
1,900.00	1,896.44	1,908.76	1,909.14	6.58	4.71	-108.165	-343.63	-792.85	876.84	865.55	11.29	77.665		
2,000.00	1,995.94	2,008.31	2,008.68	6.94	4.91	-107.551	-343.50	-791.37	877.44	865.59	11.85	74.054		
2,100.00	2,095.45	2,112.21	2,112.56	7.30	5.14	-106.968	-343.71	-789.50	877.94	865.51	12.43	70.616		
2,200.00	2,194.95	2,214.82	2,215.13	7.66	5.37	-106.442	-344.64	-786.95	878.08	865.05	13.03	67.392		
2,300.00	2,294.46	2,319.61	2,319.84	8.02	5.63	-106.003	-346.67	-783.41	877.71	864.07	13.64	64.327		
2,366.64	2,360.77	2,381.85	2,382.03	8.26	5.79	-105.717	-348.18	-781.27	877.54	863.49	14.04	62.487		
2,400.00	2,393.97	2,409.80	2,409.95	8.38	5.86	-105.572	-348.97	-780.40	877.61	863.38	14.24	61.647 ES		
2,500.00	2,493.47	2,491.00	2,491.08	8.74	6.07	-105.168	-352.21	-779.28	879.72	864.91	14.81	59.415		
2,600.00	2,592.98	2,584.37	2,584.39	9.11	6.32	-104.749	-355.53	-779.47	883.34	867.93	15.41	57.317		
2,700.00	2,692.48	2,712.00	2,712.00	9.47	6.67	-104.130	-355.31	-778.45	885.09	868.96	16.13	54.866		
2,800.00	2,791.99	2,812.62	2,812.56	9.83	6.96	-103.392	-352.88	-776.32	885.21	868.42	16.79	52.735		
2,900.00	2,891.49	2,894.19	2,894.10	10.20	7.20	-102.645	-350.62	-775.56	886.59	869.20	17.39	50.991		
3,000.00	2,991.00	2,969.31	2,969.17	10.56	7.42	-101.873	-348.37	-776.96	890.73	872.77	17.96	49.598		
3,100.00	3,090.50	3,057.19	3,056.93	10.92	7.68	-101.035	-345.35	-780.37	896.95	878.38	18.57	48.302		
3,200.00	3,190.01	3,150.95	3,150.52	11.29	7.96	-100.170	-341.91	-784.88	904.24	885.04	19.20	47.085		
3,300.00	3,289.51	3,255.56	3,254.93	11.65	8.27	-99.286	-338.06	-790.02	911.86	891.98	19.89	45.850		
3,400.00	3,389.02	3,353.78	3,353.00	12.02	8.58	-98.445	-334.53	-794.27	919.11	898.56	20.55	44.724		
3,500.00	3,488.52	3,451.29	3,450.34	12.38	8.88	-97.603	-330.80	-798.71	926.74	905.53	21.21	43.684		
3,600.00	3,588.03	3,529.00	3,527.73	12.75	9.13	-96.693	-325.70	-803.15	935.50	913.70	21.79	42.923		
3,700.00	3,687.53	3,592.00	3,589.71	13.11	9.34	-95.546	-316.69	-809.81	948.25	925.96	22.29	42.543		
3,800.00	3,787.04	3,644.83	3,640.91	13.48	9.52	-94.331	-306.20	-817.45	965.20	942.51	22.69	42.533 SF		
3,900.00	3,886.55	3,685.00	3,679.24	13.85	9.66	-93.206	-296.75	-824.85	987.21	964.25	22.96	42.994		
4,000.00	3,986.05	3,732.81	3,724.00	14.21	9.84	-91.915	-284.16	-835.94	1,014.68	991.44	23.24	43.669		
4,100.00	4,085.56	3,778.00	3,765.34	14.58	10.02	-90.620	-270.81	-848.37	1,047.28	1,023.83	23.45	44.664		
4,200.00	4,185.06	3,832.98	3,814.45	14.94	10.25	-89.083	-252.34	-864.78	1,083.86	1,060.14	23.73	45.683		
4,300.00	4,284.57	3,872.00	3,848.27	15.31	10.44	-87.821	-237.84	-877.73	1,125.08	1,101.26	23.82	47.224		
4,400.00	4,384.07	3,903.00	3,874.43	15.68	10.59	-86.725	-225.65	-889.06	1,171.00	1,147.19	23.81	49.178		
4,500.00	4,483.58	3,934.00	3,899.96	16.04	10.76	-85.634	-212.85	-901.09	1,221.12	1,197.34	23.78	51.355		
4,600.00	4,583.08	3,976.98	3,934.45	16.41	11.01	-84.310	-194.31	-918.82	1,274.91	1,251.04	23.88	53.392		
4,700.00	4,682.59	4,016.40	3,965.15	16.78	11.26	-83.074	-176.42	-935.88	1,332.06	1,308.12	23.94	55.643		

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

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

Survey Program: 100-GYRO-NS, 1245-MWD										Rule Assigned:				Offset Site Error:
Reference Offset										Distance				Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,800.00	4,782.09	4,049.71	3,990.46	17.14	11.48	-81.981	-160.65	-950.71	1,392.12	1,368.19	23.93	58.168		
4,900.00	4,881.60	4,078.16	4,011.42	17.51	11.69	-81.002	-146.60	-963.84	1,455.18	1,431.31	23.87	60.951		
5,000.00	4,981.10	4,108.94	4,033.41	17.88	11.92	-79.985	-130.76	-978.43	1,520.97	1,497.12	23.86	63.755		
5,100.00	5,080.61	4,138.84	4,054.27	18.24	12.17	-79.007	-114.93	-992.88	1,589.06	1,565.22	23.84	66.648		
5,200.00	5,180.11	4,153.00	4,063.94	18.61	12.29	-78.368	-107.28	-999.84	1,659.47	1,635.82	23.65	70.176		
5,300.00	5,279.62	4,184.00	4,084.36	18.98	12.56	-77.401	-90.06	-1,015.55	1,732.10	1,708.42	23.68	73.144		
5,400.00	5,379.12	4,199.14	4,093.99	19.34	12.71	-76.768	-81.45	-1,023.45	1,806.76	1,783.23	23.54	76.763		
5,500.00	5,478.63	4,225.91	4,110.77	19.71	12.96	-75.928	-66.09	-1,037.57	1,883.04	1,859.48	23.56	79.937		
5,600.00	5,578.14	4,245.00	4,122.53	20.08	13.15	-75.256	-55.05	-1,047.78	1,960.77	1,937.27	23.50	83.434		
5,700.00	5,677.64	4,261.62	4,132.53	20.44	13.33	-74.647	-45.34	-1,056.84	2,039.98	2,016.55	23.44	87.042		
5,800.00	5,777.15	4,276.00	4,140.93	20.81	13.48	-74.092	-36.86	-1,064.84	2,120.64	2,097.28	23.37	90.761		
5,900.00	5,876.65	4,276.00	4,140.93	21.18	13.48	-73.798	-36.86	-1,064.84	2,202.71	2,179.56	23.14	95.171		
6,000.00	5,976.16	4,294.08	4,151.10	21.54	13.68	-73.198	-26.04	-1,075.15	2,285.84	2,262.68	23.16	98.701		
6,100.00	6,075.66	4,307.00	4,158.06	21.91	13.83	-72.698	-18.18	-1,082.69	2,370.19	2,347.06	23.13	102.468		
6,200.00	6,175.17	4,307.00	4,158.06	22.28	13.83	-72.421	-18.18	-1,082.69	2,455.54	2,432.56	22.98	106.873		
6,300.00	6,274.67	4,321.49	4,165.60	22.65	14.00	-71.911	-9.28	-1,091.29	2,541.77	2,518.76	23.00	110.488		
6,400.00	6,374.18	4,338.00	4,173.88	23.01	14.19	-71.382	0.94	-1,101.27	2,628.90	2,605.83	23.07	113.950		
6,456.91	6,430.81	4,338.00	4,173.88	23.22	14.19	-71.233	0.94	-1,101.27	2,678.75	2,655.74	23.01	116.402		
6,500.00	6,473.70	4,338.00	4,173.88	23.38	14.19	-71.125	0.94	-1,101.27	2,716.63	2,693.66	22.97	118.255		
6,600.00	6,573.35	4,355.11	4,182.21	23.75	14.41	-70.648	11.61	-1,111.73	2,804.58	2,781.51	23.07	121.563		
6,700.00	6,673.13	4,369.00	4,188.85	24.11	14.58	-70.273	20.32	-1,120.28	2,892.54	2,869.40	23.14	124.990		
6,800.00	6,773.02	4,384.19	4,195.98	24.47	14.78	-69.929	29.89	-1,129.67	2,980.48	2,957.24	23.24	128.266		
6,900.00	6,872.97	4,401.00	4,203.69	24.82	14.99	-69.610	40.56	-1,140.12	3,068.37	3,045.02	23.35	131.381		
7,000.00	6,972.96	4,424.46	4,214.28	25.18	15.31	-69.241	55.59	-1,154.69	3,156.11	3,132.56	23.55	134.022		
7,027.04	7,000.00	4,431.00	4,217.21	25.27	15.40	-69.146	59.81	-1,158.74	3,179.78	3,156.18	23.60	134.724		
7,100.00	7,072.96	4,453.43	4,227.21	25.51	15.70	-68.829	74.32	-1,172.63	3,243.70	3,219.90	23.80	136.297		
7,200.00	7,172.96	4,486.16	4,241.68	25.83	16.16	-68.380	95.51	-1,192.94	3,331.57	3,307.47	24.10	138.253		
7,300.00	7,272.96	4,517.28	4,255.35	26.16	16.61	-67.967	115.66	-1,212.31	3,419.68	3,395.29	24.39	140.202		
7,400.00	7,372.96	4,548.09	4,268.78	26.48	17.06	-67.570	135.65	-1,231.53	3,508.05	3,483.35	24.69	142.064		
7,500.00	7,472.96	4,585.00	4,284.74	26.81	17.61	-67.109	159.64	-1,254.60	3,596.66	3,571.59	25.06	143.498		
7,600.00	7,572.96	4,606.48	4,293.95	27.14	17.94	-66.849	173.63	-1,268.05	3,685.49	3,660.20	25.29	145.727		
7,700.00	7,672.96	4,638.65	4,307.64	27.47	18.44	-66.469	194.58	-1,288.26	3,774.57	3,748.93	25.63	147.254		
7,800.00	7,772.96	4,678.16	4,324.41	27.79	19.06	-66.019	220.34	-1,313.10	3,863.78	3,837.72	26.06	148.273		
7,900.00	7,872.96	4,756.26	4,358.24	28.12	20.31	-65.194	270.71	-1,362.26	3,952.52	3,925.64	26.89	147.005		
8,000.00	7,972.96	4,803.58	4,378.90	28.46	21.09	-64.729	301.03	-1,392.14	4,041.32	4,013.91	27.41	147.442		
8,100.00	8,072.96	4,824.40	4,387.91	28.79	21.43	-64.533	314.34	-1,405.37	4,130.40	4,102.73	27.67	149.281		
8,200.00	8,172.96	4,867.00	4,406.04	29.12	22.14	-64.144	341.62	-1,432.61	4,219.88	4,191.72	28.15	149.888		
8,300.00	8,272.96	4,867.00	4,406.04	29.45	22.14	-64.144	341.62	-1,432.61	4,309.38	4,281.16	28.22	152.722		
8,400.00	8,372.96	4,937.06	4,435.96	29.78	23.33	-63.536	386.44	-1,477.37	4,398.78	4,369.78	29.00	151.696		
8,500.00	8,472.96	4,995.00	4,460.88	30.12	24.32	-63.061	423.46	-1,514.34	4,488.13	4,458.47	29.66	151.319		
8,600.00	8,572.96	5,023.01	4,472.90	30.45	24.81	-62.841	441.32	-1,532.25	4,577.61	4,547.59	30.03	152.459		
8,700.00	8,672.96	5,110.00	4,510.50	30.79	26.32	-62.190	496.76	-1,587.74	4,666.93	4,635.94	30.99	150.578		
8,800.00	8,772.96	5,232.47	4,564.83	31.12	28.46	-61.311	575.50	-1,664.20	4,755.54	4,723.21	32.33	147.099		
8,900.00	8,872.96	5,283.31	4,587.58	31.46	29.35	-60.947	608.79	-1,695.16	4,844.01	4,811.07	32.94	147.062		
9,000.00	8,972.96	5,333.37	4,610.04	31.80	30.23	-60.603	641.53	-1,725.66	4,932.47	4,898.93	33.54	147.047		
9,100.00	9,072.96	5,361.38	4,622.58	32.13	30.72	-60.417	659.85	-1,742.74	5,021.02	4,987.08	33.93	147.976		
9,196.08	9,169.04	5,387.67	4,634.27	32.46	31.19	-60.245	677.06	-1,758.81	5,106.26	5,071.96	34.30	148.862		
9,200.00	9,172.96	5,388.74	4,634.74	32.47	31.21	-60.238	677.76	-1,759.46	5,109.74	5,075.42	34.32	148.898		
9,250.00	9,222.88	5,403.13	4,641.10	32.64	31.46	-60.202	687.20	-1,768.26	5,153.67	5,119.15	34.52	149.311		
9,300.00	9,272.39	5,428.00	4,652.05	32.80	31.90	-60.197	703.53	-1,783.50	5,196.56	5,161.74	34.82	149.246		

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

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

Survey Program: 100-GYRO-NS, 1245-MWD										Rule Assigned:				Offset Site Error:
Reference Offset										Distance				Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,350.00	9,321.11	5,428.00	4,652.05	32.96	31.90	-60.447	703.53	-1,783.50	5,238.06	5,203.19	34.87	150.216		
9,400.00	9,368.68	5,454.02	4,663.43	33.12	32.37	-60.621	720.63	-1,799.48	5,277.88	5,242.70	35.18	150.015		
9,450.00	9,414.73	5,473.16	4,671.76	33.26	32.71	-60.930	733.21	-1,811.25	5,315.77	5,280.35	35.42	150.066		
9,500.00	9,458.90	5,493.07	4,680.38	33.40	33.07	-61.318	746.30	-1,823.52	5,351.44	5,315.78	35.67	150.032		
9,550.00	9,500.88	5,522.00	4,692.83	33.53	33.59	-61.727	765.33	-1,841.40	5,384.68	5,348.68	36.00	149.563		
9,600.00	9,540.32	5,581.71	4,718.64	33.65	34.66	-61.997	804.64	-1,878.20	5,415.15	5,378.50	36.65	147.757		
9,650.00	9,576.94	5,628.21	4,738.96	33.77	35.50	-62.417	835.27	-1,906.68	5,442.41	5,405.25	37.16	146.456		
9,700.00	9,610.46	5,656.74	4,751.39	33.87	36.02	-63.019	854.13	-1,924.11	5,466.60	5,429.11	37.49	145.802		
9,750.00	9,640.61	5,688.65	4,765.23	33.96	36.59	-63.643	875.45	-1,943.40	5,487.55	5,449.69	37.86	144.939		
9,800.00	9,667.18	5,751.29	4,792.33	34.05	37.72	-64.063	917.84	-1,980.72	5,505.08	5,466.54	38.55	142.822		
9,850.00	9,689.96	5,777.00	4,803.52	34.13	38.18	-64.808	935.24	-1,995.98	5,518.98	5,480.13	38.86	142.032		
9,900.00	9,708.77	5,797.42	4,812.42	34.20	38.55	-65.631	949.07	-2,008.08	5,529.35	5,490.23	39.12	141.339		
9,950.00	9,723.48	5,812.00	4,818.63	34.27	38.81	-66.529	959.08	-2,016.68	5,536.32	5,496.99	39.33	140.764		
10,000.00	9,733.96	5,812.00	4,818.63	34.32	38.81	-67.586	959.08	-2,016.68	5,539.79	5,500.39	39.40	140.617		
10,050.00	9,740.15	5,812.00	4,818.63	34.37	38.81	-68.668	959.08	-2,016.68	5,539.81	5,500.34	39.47	140.356		
10,096.08	9,742.00	5,825.27	4,824.14	34.41	39.05	-69.546	968.33	-2,024.43	5,536.68	5,497.00	39.68	139.518		
10,100.00	9,742.00	5,825.70	4,824.32	34.41	39.06	-69.628	968.64	-2,024.68	5,536.29	5,496.60	39.70	139.466		
10,200.00	9,742.00	5,844.00	4,831.61	34.50	39.39	-71.632	981.71	-2,035.20	5,526.46	5,486.39	40.07	137.917		
10,300.00	9,742.00	5,844.00	4,831.61	34.62	39.39	-73.848	981.71	-2,035.20	5,516.69	5,476.41	40.28	136.965		
10,400.00	9,742.00	5,858.44	4,837.09	34.75	39.66	-75.896	992.28	-2,043.36	5,507.03	5,466.37	40.66	135.440		
10,500.00	9,742.00	5,875.00	4,843.04	34.91	39.96	-77.908	1,004.68	-2,052.59	5,497.51	5,456.42	41.08	133.811		
10,511.62	9,742.00	5,875.00	4,843.04	34.93	39.96	-78.169	1,004.68	-2,052.59	5,496.40	5,455.28	41.11	133.686		
10,600.00	9,742.00	5,875.00	4,843.04	35.09	39.96	-80.170	1,004.68	-2,052.59	5,488.67	5,447.32	41.36	132.711		
10,700.00	9,742.00	5,891.30	4,848.52	35.29	40.25	-82.204	1,017.17	-2,061.52	5,481.47	5,439.63	41.84	131.000		
10,800.00	9,742.00	5,906.00	4,853.14	35.51	40.52	-84.264	1,028.66	-2,069.43	5,475.95	5,433.61	42.35	129.315		
10,900.00	9,742.00	5,919.10	4,857.04	35.75	40.76	-86.351	1,039.05	-2,076.40	5,472.05	5,429.19	42.87	127.650		
11,000.00	9,742.00	5,938.00	4,862.42	36.00	41.10	-88.329	1,054.19	-2,086.35	5,469.72	5,426.23	43.48	125.787		
11,100.00	9,742.00	5,970.00	4,870.93	36.28	41.68	-90.044	1,080.22	-2,102.90	5,468.90	5,424.63	44.27	123.530		
11,111.59	9,742.00	5,970.00	4,870.93	36.31	41.68	-90.311	1,080.22	-2,102.90	5,468.89	5,424.57	44.33	123.378		
11,200.00	9,742.00	6,013.69	4,881.71	36.58	42.47	-91.497	1,116.59	-2,124.57	5,469.35	5,424.14	45.21	120.973		
11,300.00	9,742.00	6,287.00	4,935.18	36.89	46.96	-88.224	1,363.04	-2,227.98	5,470.43	5,422.08	48.36	113.129		
11,400.00	9,742.00	6,302.95	4,937.74	37.22	47.20	-90.087	1,378.12	-2,232.50	5,469.48	5,420.45	49.04	111.539		
11,412.20	9,742.00	6,305.08	4,938.07	37.26	47.24	-90.311	1,380.13	-2,233.12	5,469.47	5,420.35	49.12	111.341		
11,500.00	9,742.00	6,319.00	4,940.17	37.57	47.45	-91.943	1,393.27	-2,237.21	5,470.06	5,420.32	49.74	109.966		
11,600.00	9,742.00	6,541.00	4,978.21	37.93	50.95	-89.601	1,600.83	-2,306.02	5,469.22	5,416.84	52.38	104.413		
11,646.93	9,742.00	6,555.57	4,980.76	38.11	51.18	-90.311	1,614.44	-2,310.55	5,469.09	5,416.28	52.80	103.575		
11,700.00	9,742.00	6,572.00	4,983.59	38.31	51.45	-91.112	1,629.79	-2,315.70	5,469.25	5,415.97	53.28	102.643		
11,800.00	9,742.00	6,604.00	4,988.83	38.71	51.96	-92.590	1,659.71	-2,325.76	5,470.51	5,416.29	54.22	100.896		
11,900.00	9,742.00	6,620.97	4,991.25	39.12	52.23	-94.356	1,675.69	-2,330.94	5,473.23	5,418.20	55.03	99.457		
12,000.00	9,742.00	6,745.69	5,004.63	39.55	54.17	-93.901	1,795.02	-2,364.59	5,477.43	5,420.63	56.80	96.428		
12,100.00	9,742.00	6,800.61	5,010.24	39.99	55.02	-94.857	1,847.87	-2,378.47	5,481.09	5,423.12	57.97	94.547		
12,200.00	9,742.00	7,365.00	5,059.39	40.44	63.10	-85.852	2,388.09	-2,462.93	5,480.59	5,417.62	62.97	87.034		
12,300.00	9,742.00	7,365.00	5,059.39	40.91	63.10	-87.862	2,388.09	-2,462.93	5,477.46	5,413.76	63.71	85.980		
12,400.00	9,742.00	7,365.00	5,059.39	41.39	63.10	-89.879	2,388.09	-2,462.93	5,476.16	5,411.70	64.46	84.960		
12,421.39	9,742.00	7,365.00	5,059.39	41.50	63.10	-90.311	2,388.09	-2,462.93	5,476.12	5,411.50	64.62	84.746		
12,500.00	9,742.00	7,365.00	5,059.39	41.88	63.10	-91.897	2,388.09	-2,462.93	5,476.68	5,411.46	65.22	83.977		
12,600.00	9,742.00	7,365.00	5,059.39	42.39	63.10	-93.910	2,388.09	-2,462.93	5,479.03	5,413.04	65.99	83.031		
12,700.00	9,742.00	7,365.00	5,059.39	42.91	63.10	-95.915	2,388.09	-2,462.93	5,483.20	5,416.43	66.77	82.124		
12,800.00	9,742.00	7,419.13	5,059.43	43.43	63.84	-96.823	2,441.87	-2,469.08	5,488.74	5,420.81	67.93	80.800		
12,900.00	9,742.00	7,460.00	5,058.92	43.97	64.41	-97.989	2,482.50	-2,473.48	5,495.17	5,426.17	69.00	79.637		
13,000.00	9,742.00	7,651.00	5,057.65	44.52	67.12	-96.166	2,672.19	-2,495.64	5,501.71	5,430.55	71.15	77.323		

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

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

Survey Program: 100-GYRO-NS, 1245-MWD										Rule Assigned:		Offset Site Error: 0.00 usft	
Reference Offset										Offset Well Error: 0.00 usft		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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	
13,100.00	9,742.00	7,698.42	5,057.15	45.08	67.78	-97.196	2,719.36	-2,500.43	5,507.57	5,435.28	72.29	76.186	
13,200.00	9,742.00	7,841.00	5,052.62	45.65	69.76	-96.346	2,861.41	-2,511.30	5,514.21	5,440.17	74.04	74.474	
13,300.00	9,742.00	8,064.47	5,045.73	46.23	72.80	-93.907	3,084.48	-2,521.89	5,519.55	5,443.29	76.26	72.380	
13,400.00	9,742.00	8,126.00	5,044.45	46.81	73.65	-94.662	3,145.93	-2,524.60	5,523.29	5,445.81	77.48	71.284	
13,500.00	9,742.00	8,246.43	5,042.93	47.41	75.35	-94.256	3,266.15	-2,531.38	5,527.03	5,447.92	79.11	69.865	
13,600.00	9,742.00	8,317.00	5,043.31	48.01	76.37	-94.829	3,336.42	-2,537.77	5,531.02	5,450.56	80.46	68.744	
13,700.00	9,742.00	8,454.49	5,044.44	48.62	78.40	-94.090	3,473.34	-2,550.19	5,534.80	5,452.50	82.29	67.256	
13,800.00	9,742.00	8,887.00	5,036.69	49.24	84.24	-87.578	3,905.26	-2,543.74	5,535.13	5,449.57	85.55	64.697	
13,900.00	9,742.00	8,923.49	5,036.45	49.87	84.73	-88.826	3,941.72	-2,542.36	5,533.27	5,446.63	86.64	63.863	
14,000.00	9,742.00	8,982.00	5,036.03	50.50	85.53	-89.642	4,000.22	-2,541.09	5,532.39	5,444.53	87.86	62.970	
14,033.95	9,742.00	8,982.00	5,036.03	50.72	85.53	-90.311	4,000.22	-2,541.09	5,532.28	5,444.12	88.16	62.751	
14,100.00	9,742.00	8,982.00	5,036.03	51.14	85.53	-91.612	4,000.22	-2,541.09	5,532.68	5,443.93	88.75	62.338	
14,200.00	9,742.00	9,050.00	5,034.78	51.79	86.48	-92.242	4,068.20	-2,541.12	5,534.03	5,443.99	90.04	61.462	
14,300.00	9,742.00	9,090.56	5,033.60	52.44	87.06	-93.411	4,108.75	-2,541.62	5,536.56	5,445.39	91.17	60.725	
14,400.00	9,742.00	9,112.00	5,032.98	53.10	87.37	-94.952	4,130.17	-2,541.88	5,539.96	5,447.77	92.19	60.094	
14,500.00	9,742.00	9,112.00	5,032.98	53.77	87.37	-96.902	4,130.17	-2,541.88	5,545.12	5,452.06	93.06	59.585	
14,600.00	9,742.00	9,112.00	5,032.98	54.44	87.37	-98.838	4,130.17	-2,541.88	5,552.08	5,458.16	93.93	59.112	
14,700.00	9,742.00	9,112.00	5,032.98	55.12	87.37	-100.754	4,130.17	-2,541.88	5,560.83	5,466.06	94.77	58.675	
14,800.00	9,742.00	9,112.00	5,032.98	55.80	87.37	-102.647	4,130.17	-2,541.88	5,571.36	5,475.75	95.61	58.273	
14,900.00	9,742.00	9,112.00	5,032.98	56.49	87.37	-104.513	4,130.17	-2,541.88	5,583.66	5,487.24	96.43	57.906	
15,000.00	9,742.00	9,112.00	5,032.98	57.18	87.37	-106.348	4,130.17	-2,541.88	5,597.72	5,500.50	97.23	57.574	
15,100.00	9,742.00	9,112.00	5,032.98	57.88	87.37	-108.151	4,130.17	-2,541.88	5,613.53	5,515.52	98.01	57.275	
15,200.00	9,742.00	9,112.00	5,032.98	58.58	87.37	-109.917	4,130.17	-2,541.88	5,631.07	5,532.30	98.77	57.010	
15,300.00	9,742.00	9,112.00	5,032.98	59.28	87.37	-111.646	4,130.17	-2,541.88	5,650.33	5,550.81	99.52	56.777	
15,400.00	9,742.00	9,112.00	5,032.98	59.99	87.37	-113.335	4,130.17	-2,541.88	5,671.28	5,571.04	100.24	56.576	
15,500.00	9,742.00	9,112.00	5,032.98	60.71	87.37	-114.983	4,130.17	-2,541.88	5,693.91	5,592.97	100.94	56.406	
15,600.00	9,742.00	9,112.00	5,032.98	61.42	87.37	-116.588	4,130.17	-2,541.88	5,718.20	5,616.58	101.63	56.267	
15,700.00	9,742.00	9,112.00	5,032.98	62.15	87.37	-118.150	4,130.17	-2,541.88	5,744.14	5,641.85	102.29	56.157	
15,800.00	9,742.00	9,112.00	5,032.98	62.87	87.37	-119.668	4,130.17	-2,541.88	5,771.68	5,668.76	102.92	56.077	
15,900.00	9,742.00	9,112.00	5,032.98	63.60	87.37	-121.142	4,130.17	-2,541.88	5,800.82	5,697.28	103.54	56.025	
16,000.00	9,742.00	9,112.00	5,032.98	64.33	87.37	-122.573	4,130.17	-2,541.88	5,831.53	5,727.40	104.13	56.000	
16,100.00	9,742.00	9,112.00	5,032.98	65.07	87.37	-123.960	4,130.17	-2,541.88	5,863.79	5,759.08	104.70	56.003	
16,200.00	9,742.00	9,112.00	5,032.98	65.81	87.37	-125.303	4,130.17	-2,541.88	5,897.56	5,792.31	105.25	56.032	
16,300.00	9,742.00	9,112.00	5,032.98	66.55	87.37	-126.604	4,130.17	-2,541.88	5,932.83	5,827.05	105.78	56.086	
16,400.00	9,742.00	9,112.00	5,032.98	67.29	87.37	-127.863	4,130.17	-2,541.88	5,969.56	5,863.28	106.28	56.166	
16,500.00	9,742.00	9,112.00	5,032.98	68.04	87.37	-129.080	4,130.17	-2,541.88	6,007.74	5,900.97	106.77	56.269	
16,600.00	9,742.00	9,112.00	5,032.98	68.79	87.37	-130.258	4,130.17	-2,541.88	6,047.32	5,940.09	107.23	56.396	
16,700.00	9,742.00	9,112.00	5,032.98	69.54	87.37	-131.396	4,130.17	-2,541.88	6,088.29	5,980.63	107.67	56.546	
16,800.00	9,742.00	9,112.00	5,032.98	70.30	87.37	-132.496	4,130.17	-2,541.88	6,130.62	6,022.54	108.09	56.719	
16,900.00	9,742.00	9,112.00	5,032.98	71.06	87.37	-133.560	4,130.17	-2,541.88	6,174.28	6,065.80	108.49	56.912	
17,000.00	9,742.00	9,112.00	5,032.98	71.82	87.37	-134.587	4,130.17	-2,541.88	6,219.24	6,110.38	108.87	57.127	
17,100.00	9,742.00	9,112.00	5,032.98	72.58	87.37	-135.579	4,130.17	-2,541.88	6,265.48	6,156.25	109.23	57.362	
17,200.00	9,742.00	9,112.00	5,032.98	73.35	87.37	-136.539	4,130.17	-2,541.88	6,312.96	6,203.39	109.57	57.617	
17,300.00	9,742.00	9,112.00	5,032.98	74.12	87.37	-137.465	4,130.17	-2,541.88	6,361.66	6,251.77	109.89	57.891	
17,400.00	9,742.00	9,112.00	5,032.98	74.89	87.37	-138.361	4,130.17	-2,541.88	6,411.54	6,301.35	110.19	58.184	
17,500.00	9,742.00	9,112.00	5,032.98	75.66	87.37	-139.226	4,130.17	-2,541.88	6,462.59	6,352.11	110.48	58.495	
17,600.00	9,742.00	9,112.00	5,032.98	76.43	87.37	-140.063	4,130.17	-2,541.88	6,514.78	6,404.03	110.75	58.823	
17,700.00	9,742.00	9,112.00	5,032.98	77.21	87.37	-140.871	4,130.17	-2,541.88	6,568.07	6,457.07	111.01	59.168	
17,800.00	9,742.00	9,112.00	5,032.98	77.99	87.37	-141.653	4,130.17	-2,541.88	6,622.45	6,511.20	111.25	59.530	
17,900.00	9,742.00	9,112.00	5,032.98	78.77	87.37	-142.409	4,130.17	-2,541.88	6,677.88	6,566.41	111.47	59.908	

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

Offset Design: Double Stamp - Offsets (NAD 83) - Queenie 15 1H - Wellbore #1 - Surveys													Offset Site Error:
													0.00 usft
													Offset Well Error:
													0.00 usft
													Warning
Survey Program:	Reference	Offset	Semi Major Axis	Reference	Offset	Azimuth	Offset Wellbore Centre	Distance	Rule Assigned:	Minimum	Separation		
Measured	Vertical	Measured	Vertical	Reference	Offset	from North	+N/-S	+E/-W	Between	Between	Separation	Factor	
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)		
(usft)	(usft)	(usft)	(usft)						(usft)	(usft)			
18,000.00	9,742.00	9,112.00	5,032.98	79.55	87.37	-143.140	4,130.17	-2,541.88	6,734.33	6,622.65	111.68	60.301	
18,100.00	9,742.00	9,112.00	5,032.98	80.33	87.37	-143.847	4,130.17	-2,541.88	6,791.79	6,679.92	111.87	60.709	
18,200.00	9,742.00	9,112.00	5,032.98	81.12	87.37	-144.532	4,130.17	-2,541.88	6,850.23	6,738.18	112.06	61.132	
18,300.00	9,742.00	9,112.00	5,032.98	81.90	87.37	-145.194	4,130.17	-2,541.88	6,909.63	6,797.40	112.23	61.568	
18,400.00	9,742.00	9,112.00	5,032.98	82.69	87.37	-145.836	4,130.17	-2,541.88	6,969.95	6,857.56	112.38	62.019	
18,500.00	9,742.00	9,112.00	5,032.98	83.48	87.37	-146.457	4,130.17	-2,541.88	7,031.17	6,918.64	112.53	62.482	
18,600.00	9,742.00	9,112.00	5,032.98	84.27	87.37	-147.058	4,130.17	-2,541.88	7,093.28	6,980.61	112.67	62.959	
18,700.00	9,742.00	9,112.00	5,032.98	85.07	87.37	-147.641	4,130.17	-2,541.88	7,156.24	7,043.45	112.79	63.448	
18,800.00	9,742.00	9,112.00	5,032.98	85.86	87.37	-148.207	4,130.17	-2,541.88	7,220.04	7,107.14	112.90	63.949	
18,900.00	9,742.00	9,112.00	5,032.98	86.66	87.37	-148.754	4,130.17	-2,541.88	7,284.66	7,171.65	113.01	64.461	
19,000.00	9,742.00	9,112.00	5,032.98	87.46	87.37	-149.286	4,130.17	-2,541.88	7,350.07	7,236.96	113.10	64.985	
19,100.00	9,742.00	9,112.00	5,032.98	88.25	87.37	-149.801	4,130.17	-2,541.88	7,416.25	7,303.05	113.19	65.519	
19,200.00	9,742.00	9,112.00	5,032.98	89.05	87.37	-150.301	4,130.17	-2,541.88	7,483.18	7,369.91	113.27	66.064	
19,300.00	9,742.00	9,112.00	5,032.98	89.85	87.37	-150.787	4,130.17	-2,541.88	7,550.84	7,437.50	113.34	66.620	
19,400.00	9,742.00	9,112.00	5,032.98	90.66	87.37	-151.258	4,130.17	-2,541.88	7,619.21	7,505.81	113.41	67.185	
19,500.00	9,742.00	9,112.00	5,032.98	91.46	87.37	-151.716	4,130.17	-2,541.88	7,688.28	7,574.81	113.46	67.760	
19,600.00	9,742.00	9,112.00	5,032.98	92.26	87.37	-152.161	4,130.17	-2,541.88	7,758.02	7,644.50	113.51	68.344	
19,700.00	9,742.00	9,112.00	5,032.98	93.07	87.37	-152.593	4,130.17	-2,541.88	7,828.41	7,714.85	113.56	68.937	
19,800.00	9,742.00	9,112.00	5,032.98	93.88	87.37	-153.013	4,130.17	-2,541.88	7,899.45	7,785.85	113.60	69.539	
19,900.00	9,742.00	9,112.00	5,032.98	94.69	87.37	-153.422	4,130.17	-2,541.88	7,971.10	7,857.47	113.63	70.149	
20,000.00	9,742.00	9,112.00	5,032.98	95.49	87.37	-153.819	4,130.17	-2,541.88	8,043.37	7,929.71	113.66	70.767	
20,032.45	9,742.00	9,112.00	5,032.98	95.76	87.37	-153.946	4,130.17	-2,541.88	8,066.94	7,953.27	113.67	70.969	

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

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

Survey Program: 0-MWD+IFR1+SAG+FDIR		Offset		Semi Major Axis		Azimuth from North (°)	Offset Wellbore Centre		Rule Assigned: Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	2.00	0.00	0.00	0.01	88.796	25.00	1,189.34	1,189.60				
100.00	100.00	102.00	100.00	0.26	0.27	88.796	25.00	1,189.34	1,189.60	1,189.07	0.53	2,227.207	
200.00	200.00	202.00	200.00	0.62	0.63	88.796	25.00	1,189.34	1,189.60	1,188.35	1.25	950.871	
300.00	300.00	302.00	300.00	0.98	0.99	88.796	25.00	1,189.34	1,189.60	1,187.63	1.97	604.470	
400.00	400.00	402.00	400.00	1.34	1.35	88.796	25.00	1,189.34	1,189.60	1,186.92	2.68	443.063	
500.00	500.00	502.00	500.00	1.70	1.70	88.796	25.00	1,189.34	1,189.60	1,186.20	3.40	349.688	
600.00	600.00	602.00	600.00	2.06	2.06	88.796	25.00	1,189.34	1,189.60	1,185.48	4.12	288.820	
700.00	700.00	702.00	700.00	2.41	2.42	88.796	25.00	1,189.34	1,189.60	1,184.77	4.84	246.000	
800.00	800.00	802.00	800.00	2.77	2.78	88.796	25.00	1,189.34	1,189.60	1,184.05	5.55	214.238	
900.00	899.99	901.99	899.99	3.11	3.14	88.759	25.00	1,189.34	1,189.19	1,182.93	6.25	190.176	
1,000.00	999.96	1,001.96	999.96	3.45	3.50	88.648	25.00	1,189.34	1,187.94	1,181.00	6.94	171.129	
1,100.00	1,099.86	1,101.86	1,099.86	3.78	3.85	88.463	25.00	1,189.34	1,185.87	1,178.23	7.64	155.311	
1,200.00	1,199.68	1,200.00	1,198.00	4.12	4.21	88.202	25.00	1,189.34	1,183.00	1,174.67	8.33	142.069	
1,300.00	1,299.37	1,292.98	1,290.98	4.47	4.52	87.898	24.33	1,189.70	1,179.70	1,170.71	8.99	131.260	
1,370.13	1,369.19	1,357.17	1,355.15	4.71	4.74	87.678	23.10	1,190.36	1,177.34	1,167.89	9.44	124.702	
1,400.00	1,398.91	1,384.53	1,382.49	4.81	4.83	87.585	22.38	1,190.74	1,176.36	1,166.72	9.63	122.098	
1,500.00	1,498.42	1,476.24	1,474.13	5.16	5.13	87.317	19.13	1,192.47	1,173.54	1,163.25	10.29	114.086	
1,600.00	1,597.92	1,568.10	1,565.85	5.51	5.44	87.112	14.57	1,194.91	1,171.43	1,160.48	10.94	107.039	
1,700.00	1,697.43	1,660.07	1,657.57	5.87	5.75	86.972	8.71	1,198.03	1,170.01	1,158.40	11.61	100.810	
1,800.00	1,796.93	1,752.09	1,749.24	6.22	6.06	86.898	1.55	1,201.85	1,169.27	1,157.00	12.27	95.280	
1,857.98	1,854.63	1,805.46	1,802.33	6.43	6.24	86.885	-3.20	1,204.39	1,169.16	1,156.50	12.66	92.354 CC	
1,900.00	1,896.44	1,844.82	1,841.46	6.58	6.38	86.892	-6.97	1,206.40	1,169.21	1,156.27	12.94	90.332	
2,000.00	1,995.94	1,944.81	1,940.83	6.94	6.73	86.949	-16.75	1,211.62	1,169.44	1,155.79	13.65	85.698	
2,100.00	2,095.45	2,044.80	2,040.21	7.30	7.07	87.006	-26.52	1,216.83	1,169.67	1,155.32	14.35	81.500	
2,200.00	2,194.95	2,144.80	2,139.59	7.66	7.42	87.063	-36.29	1,222.05	1,169.90	1,154.84	15.06	77.680	
2,300.00	2,294.46	2,244.79	2,238.97	8.02	7.78	87.120	-46.07	1,227.27	1,170.13	1,154.36	15.77	74.192	
2,400.00	2,393.97	2,344.78	2,338.34	8.38	8.13	87.177	-55.84	1,232.48	1,170.36	1,153.88	16.49	70.996	
2,500.00	2,493.47	2,444.77	2,437.72	8.74	8.48	87.234	-65.62	1,237.70	1,170.60	1,153.40	17.20	68.057	
2,600.00	2,592.98	2,544.77	2,537.10	9.11	8.84	87.291	-75.39	1,242.91	1,170.83	1,152.92	17.92	65.347	
2,700.00	2,692.48	2,644.76	2,636.48	9.47	9.20	87.348	-85.16	1,248.13	1,171.07	1,152.43	18.64	62.841	
2,800.00	2,791.99	2,744.75	2,735.85	9.83	9.56	87.405	-94.94	1,253.35	1,171.31	1,151.95	19.36	60.516	
2,900.00	2,891.49	2,844.75	2,835.23	10.20	9.92	87.462	-104.71	1,258.56	1,171.54	1,151.47	20.08	58.355	
3,000.00	2,991.00	2,944.74	2,934.61	10.56	10.28	87.519	-114.49	1,263.78	1,171.78	1,150.99	20.80	56.341	
3,100.00	3,090.50	3,044.73	3,033.98	10.92	10.64	87.575	-124.26	1,268.99	1,172.02	1,150.50	21.52	54.460	
3,200.00	3,190.01	3,144.72	3,133.36	11.29	11.00	87.632	-134.03	1,274.21	1,172.27	1,150.02	22.24	52.700	
3,300.00	3,289.51	3,244.72	3,232.74	11.65	11.36	87.689	-143.81	1,279.43	1,172.51	1,149.54	22.97	51.048	
3,400.00	3,389.02	3,344.71	3,332.12	12.02	11.72	87.746	-153.58	1,284.64	1,172.75	1,149.06	23.69	49.496	
3,500.00	3,488.52	3,444.70	3,431.49	12.38	12.09	87.803	-163.36	1,289.86	1,173.00	1,148.58	24.42	48.035	
3,600.00	3,588.03	3,544.70	3,530.87	12.75	12.45	87.859	-173.13	1,295.07	1,173.25	1,148.10	25.15	46.658	
3,700.00	3,687.53	3,644.69	3,630.25	13.11	12.81	87.916	-182.91	1,300.29	1,173.49	1,147.62	25.87	45.357	
3,800.00	3,787.04	3,744.68	3,729.63	13.48	13.18	87.973	-192.68	1,305.51	1,173.74	1,147.14	26.60	44.126	
3,900.00	3,886.55	3,844.67	3,829.00	13.85	13.54	88.029	-202.45	1,310.72	1,173.99	1,146.67	27.33	42.960	
4,000.00	3,986.05	3,944.67	3,928.38	14.21	13.91	88.086	-212.23	1,315.94	1,174.24	1,146.19	28.06	41.854	
4,100.00	4,085.56	4,044.66	4,027.76	14.58	14.27	88.143	-222.00	1,321.15	1,174.50	1,145.71	28.78	40.804	
4,200.00	4,185.06	4,144.65	4,127.13	14.94	14.64	88.199	-231.78	1,326.37	1,174.75	1,145.24	29.51	39.805	
4,300.00	4,284.57	4,244.65	4,226.51	15.31	15.00	88.256	-241.55	1,331.59	1,175.00	1,144.76	30.24	38.854	
4,400.00	4,384.07	4,344.64	4,325.89	15.68	15.37	88.312	-251.32	1,336.80	1,175.26	1,144.29	30.97	37.947	
4,500.00	4,483.58	4,444.63	4,425.27	16.04	15.73	88.369	-261.10	1,342.02	1,175.52	1,143.82	31.70	37.082	
4,600.00	4,583.08	4,544.62	4,524.64	16.41	16.10	88.425	-270.87	1,347.23	1,175.78	1,143.35	32.43	36.255	
4,700.00	4,682.59	4,644.62	4,624.02	16.78	16.47	88.482	-280.65	1,352.45	1,176.03	1,142.87	33.16	35.465	
4,800.00	4,782.09	4,744.61	4,723.40	17.14	16.83	88.538	-290.42	1,357.67	1,176.30	1,142.40	33.89	34.708	

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference 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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
4,900.00	4,881.60	4,844.60	4,822.78	17.51	17.20	88.595	-300.19	1,362.88	1,176.56	1,141.94	34.62	33.984			
5,000.00	4,981.10	4,944.60	4,922.15	17.88	17.57	88.651	-309.97	1,368.10	1,176.82	1,141.47	35.35	33.289			
5,100.00	5,080.61	5,044.59	5,021.53	18.24	17.93	88.708	-319.74	1,373.31	1,177.08	1,141.00	36.08	32.622			
5,200.00	5,180.11	5,144.58	5,120.91	18.61	18.30	88.764	-329.52	1,378.53	1,177.35	1,140.53	36.81	31.981			
5,300.00	5,279.62	5,244.58	5,220.28	18.98	18.67	88.820	-339.29	1,383.75	1,177.61	1,140.07	37.54	31.366			
5,400.00	5,379.12	5,344.57	5,319.66	19.34	19.03	88.876	-349.06	1,388.96	1,177.88	1,139.61	38.28	30.773			
5,500.00	5,478.63	5,444.56	5,419.04	19.71	19.40	88.933	-358.84	1,394.18	1,178.15	1,139.14	39.01	30.203			
5,600.00	5,578.14	5,544.55	5,518.42	20.08	19.77	88.989	-368.61	1,399.39	1,178.42	1,138.68	39.74	29.654			
5,700.00	5,677.64	5,644.55	5,617.79	20.44	20.14	89.045	-378.39	1,404.61	1,178.69	1,138.22	40.47	29.125			
5,800.00	5,777.15	5,744.54	5,717.17	20.81	20.50	89.101	-388.16	1,409.82	1,178.96	1,137.76	41.20	28.614			
5,900.00	5,876.65	5,844.53	5,816.55	21.18	20.87	89.158	-397.93	1,415.04	1,179.24	1,137.30	41.93	28.121			
6,000.00	5,976.16	5,944.53	5,915.92	21.54	21.24	89.214	-407.71	1,420.26	1,179.51	1,136.84	42.67	27.645			
6,100.00	6,075.66	6,044.52	6,015.30	21.91	21.61	89.270	-417.48	1,425.47	1,179.78	1,136.39	43.40	27.185			
6,200.00	6,175.17	6,144.51	6,114.68	22.28	21.97	89.326	-427.26	1,430.69	1,180.06	1,135.93	44.13	26.741			
6,300.00	6,274.67	6,244.50	6,214.06	22.65	22.34	89.382	-437.03	1,435.90	1,180.34	1,135.48	44.86	26.310			
6,400.00	6,374.18	6,344.50	6,313.43	23.01	22.71	89.438	-446.80	1,441.12	1,180.62	1,135.02	45.59	25.894			
6,456.91	6,430.81	6,402.13	6,370.71	23.22	22.92	89.473	-452.43	1,444.12	1,180.77	1,134.76	46.01	25.661			
6,500.00	6,473.70	6,449.78	6,418.10	23.38	23.10	89.515	-456.86	1,446.49	1,180.87	1,134.52	46.35	25.479			
6,600.00	6,573.35	6,560.39	6,528.24	23.75	23.50	89.599	-465.80	1,451.26	1,181.05	1,133.93	47.11	25.068			
6,700.00	6,673.13	6,671.02	6,638.58	24.11	23.90	89.664	-472.86	1,455.03	1,181.19	1,133.31	47.87	24.673			
6,800.00	6,773.02	6,781.66	6,749.06	24.47	24.30	89.712	-478.05	1,457.79	1,181.28	1,132.66	48.63	24.293			
6,900.00	6,872.97	6,892.31	6,859.65	24.82	24.70	89.742	-481.35	1,459.55	1,181.34	1,131.97	49.37	23.928			
7,000.00	6,972.96	7,002.97	6,970.29	25.18	25.09	89.754	-482.76	1,460.31	1,181.35	1,131.25	50.11	23.577			
7,027.04	7,000.00	7,032.68	7,000.00	25.27	25.19	89.755	-482.82	1,460.34	1,181.35	1,131.06	50.30	23.488			
7,100.00	7,072.96	7,105.63	7,072.96	25.51	25.43	89.755	-482.82	1,460.34	1,181.35	1,130.58	50.77	23.269			
7,200.00	7,172.96	7,205.63	7,172.96	25.83	25.75	89.755	-482.82	1,460.34	1,181.35	1,129.93	51.42	22.974			
7,300.00	7,272.96	7,305.63	7,272.96	26.16	26.08	89.755	-482.82	1,460.34	1,181.35	1,129.28	52.07	22.686			
7,400.00	7,372.96	7,405.63	7,372.96	26.48	26.41	89.755	-482.82	1,460.34	1,181.35	1,128.62	52.73	22.404			
7,500.00	7,472.96	7,505.63	7,472.96	26.81	26.74	89.755	-482.82	1,460.34	1,181.35	1,127.96	53.39	22.128			
7,600.00	7,572.96	7,605.63	7,572.96	27.14	27.07	89.755	-482.82	1,460.34	1,181.35	1,127.31	54.04	21.859			
7,700.00	7,672.96	7,705.63	7,672.96	27.47	27.40	89.755	-482.82	1,460.34	1,181.35	1,126.65	54.70	21.595			
7,800.00	7,772.96	7,805.63	7,772.96	27.79	27.73	89.755	-482.82	1,460.34	1,181.35	1,125.99	55.37	21.337			
7,900.00	7,872.96	7,905.63	7,872.96	28.12	28.06	89.755	-482.82	1,460.34	1,181.35	1,125.32	56.03	21.085			
8,000.00	7,972.96	8,005.63	7,972.96	28.46	28.40	89.755	-482.82	1,460.34	1,181.35	1,124.66	56.69	20.838			
8,100.00	8,072.96	8,105.63	8,072.96	28.79	28.73	89.755	-482.82	1,460.34	1,181.35	1,123.99	57.36	20.597			
8,200.00	8,172.96	8,205.63	8,172.96	29.12	29.07	89.755	-482.82	1,460.34	1,181.35	1,123.33	58.02	20.360			
8,300.00	8,272.96	8,305.63	8,272.96	29.45	29.40	89.755	-482.82	1,460.34	1,181.35	1,122.66	58.69	20.129			
8,300.53	8,273.48	8,306.16	8,273.48	29.45	29.40	89.755	-482.82	1,460.34	1,181.35	1,122.66	58.69	20.127			
8,400.00	8,372.96	8,403.76	8,371.06	29.78	29.73	89.714	-481.97	1,460.36	1,181.38	1,122.02	59.35	19.904			
8,500.00	8,472.96	8,496.24	8,462.61	30.12	30.03	89.111	-469.54	1,460.66	1,181.85	1,121.85	60.00	19.696 ES			
8,600.00	8,572.96	8,582.66	8,545.31	30.45	30.29	87.911	-444.76	1,461.27	1,183.38	1,122.75	60.63	19.519			
8,700.00	8,672.96	8,660.17	8,615.57	30.79	30.51	86.339	-412.18	1,462.07	1,186.87	1,125.68	61.19	19.395			
8,800.00	8,772.96	8,727.70	8,672.72	31.12	30.69	84.616	-376.30	1,462.94	1,193.41	1,131.75	61.66	19.355			
8,900.00	8,872.96	8,785.54	8,718.03	31.46	30.83	82.904	-340.39	1,463.82	1,203.97	1,141.99	61.98	19.425			
9,000.00	8,972.96	8,834.69	8,753.52	31.80	30.94	81.299	-306.43	1,464.65	1,219.36	1,157.24	62.12	19.629			
9,100.00	9,072.96	8,876.39	8,781.26	32.13	31.03	79.842	-275.31	1,465.41	1,240.10	1,178.04	62.06	19.983			
9,196.08	9,169.04	8,900.00	8,795.94	32.46	31.08	78.984	-256.82	1,465.86	1,265.40	1,203.68	61.72	20.502			
9,200.00	9,172.96	8,911.87	8,803.03	32.47	31.10	78.544	-247.30	1,466.10	1,266.46	1,204.67	61.79	20.496			
9,250.00	9,222.88	8,928.70	8,812.74	32.64	31.13	78.024	-233.56	1,466.43	1,280.93	1,219.34	61.59	20.798			
9,300.00	9,272.39	8,950.00	8,824.44	32.80	31.17	77.512	-215.77	1,466.87	1,295.24	1,233.85	61.39	21.099			

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference 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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
9,350.00	9,321.11	8,963.93	8,831.73	32.96	31.20	77.461	-203.90	1,467.16	1,309.17	1,248.07	61.10	21.428			
9,400.00	9,368.68	8,982.20	8,840.85	33.12	31.23	77.415	-188.09	1,467.54	1,322.58	1,261.76	60.81	21.748			
9,450.00	9,414.73	9,000.00	8,849.25	33.26	31.26	77.555	-172.39	1,467.93	1,335.29	1,274.79	60.51	22.069			
9,500.00	9,458.90	9,019.72	8,857.98	33.40	31.29	77.781	-154.72	1,468.36	1,347.17	1,286.97	60.20	22.379			
9,550.00	9,500.88	9,050.00	8,870.19	33.53	31.34	77.711	-127.02	1,469.04	1,358.18	1,298.21	59.97	22.649			
9,600.00	9,540.32	9,050.00	8,870.19	33.65	31.34	79.095	-127.02	1,469.04	1,367.95	1,308.45	59.50	22.991			
9,650.00	9,576.94	9,077.87	8,880.11	33.77	31.38	79.420	-100.99	1,469.67	1,376.52	1,317.27	59.25	23.233			
9,700.00	9,610.46	9,100.00	8,887.08	33.87	31.41	80.129	-79.99	1,470.19	1,383.86	1,324.89	58.97	23.469			
9,750.00	9,640.61	9,117.50	8,892.02	33.96	31.43	81.180	-63.21	1,470.60	1,389.82	1,331.16	58.67	23.689			
9,800.00	9,667.18	9,150.00	8,899.82	34.05	31.47	81.647	-31.67	1,471.37	1,394.49	1,336.02	58.48	23.847			
9,850.00	9,689.96	9,150.00	8,899.82	34.13	31.47	83.770	-31.67	1,471.37	1,397.46	1,339.31	58.15	24.032			
9,900.00	9,708.77	9,177.75	8,905.05	34.20	31.50	84.664	-4.43	1,472.03	1,398.93	1,340.94	57.99	24.122			
9,950.00	9,723.48	9,200.00	8,908.29	34.27	31.53	85.905	17.58	1,472.57	1,398.90	1,341.05	57.85	24.181			
10,000.00	9,733.96	9,218.22	8,910.31	34.32	31.55	87.416	35.68	1,473.01	1,397.29	1,339.55	57.74	24.200			
10,050.00	9,740.15	9,250.00	8,912.44	34.37	31.58	88.291	67.37	1,473.79	1,394.23	1,336.53	57.70	24.163			
10,096.08	9,742.00	9,257.20	8,912.68	34.41	31.58	90.254	74.56	1,473.96	1,389.79	1,332.11	57.68	24.096			
10,100.00	9,742.00	9,258.79	8,912.72	34.41	31.59	90.372	76.15	1,474.00	1,389.37	1,331.69	57.68	24.088			
10,200.00	9,742.00	9,370.67	8,912.72	34.50	31.69	89.721	188.02	1,475.11	1,380.60	1,322.85	57.74	23.909			
10,300.00	9,742.00	9,470.24	8,912.54	34.62	31.82	89.722	287.59	1,474.49	1,373.36	1,315.50	57.86	23.734			
10,400.00	9,742.00	9,570.07	8,912.37	34.75	31.97	89.722	387.42	1,473.87	1,368.92	1,310.86	58.06	23.577			
10,500.00	9,742.00	9,670.04	8,912.20	34.91	32.14	89.722	487.39	1,473.26	1,367.25	1,308.92	58.34	23.437			
10,509.98	9,742.00	9,680.02	8,912.18	34.93	32.16	89.722	497.36	1,473.19	1,367.24	1,308.87	58.37	23.424			
10,511.62	9,742.00	9,681.66	8,912.17	34.93	32.16	89.722	499.01	1,473.18	1,367.24	1,308.87	58.37	23.422			
10,600.00	9,742.00	9,770.04	8,912.02	35.09	32.33	89.722	587.39	1,472.64	1,367.28	1,308.60	58.68	23.302			
10,700.00	9,742.00	9,870.04	8,911.85	35.29	32.55	89.722	687.38	1,472.02	1,367.33	1,308.28	59.05	23.155			
10,800.00	9,742.00	9,970.04	8,911.67	35.51	32.79	89.722	787.38	1,471.40	1,367.37	1,307.91	59.46	22.997			
10,900.00	9,742.00	10,070.04	8,911.50	35.75	33.05	89.722	887.38	1,470.78	1,367.42	1,307.51	59.90	22.827			
11,000.00	9,742.00	10,170.04	8,911.32	36.00	33.33	89.722	987.38	1,470.16	1,367.46	1,307.08	60.38	22.648			
11,100.00	9,742.00	10,270.04	8,911.15	36.28	33.63	89.722	1,087.38	1,469.55	1,367.51	1,306.62	60.89	22.459			
11,200.00	9,742.00	10,370.04	8,910.97	36.58	33.95	89.722	1,187.37	1,468.93	1,367.55	1,306.13	61.43	22.263			
11,300.00	9,742.00	10,470.04	8,910.80	36.89	34.29	89.722	1,287.37	1,468.31	1,367.60	1,305.60	62.00	22.058			
11,400.00	9,742.00	10,570.04	8,910.62	37.22	34.65	89.722	1,387.37	1,467.69	1,367.65	1,305.04	62.60	21.847			
11,500.00	9,742.00	10,670.04	8,910.45	37.57	35.03	89.722	1,487.37	1,467.07	1,367.69	1,304.46	63.23	21.630			
11,600.00	9,742.00	10,770.04	8,910.28	37.93	35.42	89.722	1,587.36	1,466.45	1,367.74	1,303.85	63.89	21.408			
11,700.00	9,742.00	10,870.04	8,910.10	38.31	35.83	89.722	1,687.36	1,465.84	1,367.78	1,303.21	64.58	21.181			
11,800.00	9,742.00	10,970.04	8,909.93	38.71	36.25	89.722	1,787.36	1,465.22	1,367.83	1,302.54	65.29	20.950			
11,900.00	9,742.00	11,070.04	8,909.75	39.12	36.70	89.722	1,887.36	1,464.60	1,367.88	1,301.85	66.03	20.717			
12,000.00	9,742.00	11,170.04	8,909.58	39.55	37.15	89.722	1,987.36	1,463.98	1,367.92	1,301.13	66.79	20.481			
12,100.00	9,742.00	11,270.04	8,909.40	39.99	37.62	89.723	2,087.35	1,463.36	1,367.97	1,300.39	67.58	20.243			
12,200.00	9,742.00	11,370.04	8,909.23	40.44	38.11	89.723	2,187.35	1,462.75	1,368.01	1,299.63	68.39	20.005			
12,300.00	9,742.00	11,470.04	8,909.05	40.91	38.61	89.723	2,287.35	1,462.13	1,368.06	1,298.84	69.22	19.765			
12,400.00	9,742.00	11,570.04	8,908.88	41.39	39.12	89.723	2,387.35	1,461.51	1,368.11	1,298.04	70.07	19.525			
12,500.00	9,742.00	11,670.04	8,908.70	41.88	39.64	89.723	2,487.34	1,460.89	1,368.15	1,297.21	70.94	19.285			
12,600.00	9,742.00	11,770.04	8,908.53	42.39	40.18	89.723	2,587.34	1,460.27	1,368.20	1,296.36	71.84	19.046			
12,700.00	9,742.00	11,870.04	8,908.36	42.91	40.73	89.723	2,687.34	1,459.65	1,368.24	1,295.49	72.75	18.808			
12,800.00	9,742.00	11,970.04	8,908.18	43.43	41.28	89.723	2,787.34	1,459.04	1,368.29	1,294.61	73.68	18.571			
12,900.00	9,742.00	12,070.04	8,908.01	43.97	41.85	89.723	2,887.33	1,458.42	1,368.34	1,293.71	74.63	18.335			
13,000.00	9,742.00	12,170.04	8,907.83	44.52	42.43	89.723	2,987.33	1,457.80	1,368.38	1,292.79	75.59	18.102			
13,100.00	9,742.00	12,270.04	8,907.66	45.08	43.02	89.723	3,087.33	1,457.18	1,368.43	1,291.85	76.58	17.870			
13,200.00	9,742.00	12,370.04	8,907.48	45.65	43.62	89.723	3,187.33	1,456.56	1,368.47	1,290.90	77.57	17.641			
13,300.00	9,742.00	12,470.04	8,907.31	46.23	44.22	89.723	3,287.33	1,455.95	1,368.52	1,289.93	78.59	17.414			

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference 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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
13,400.00	9,742.00	12,570.04	8,907.13	46.81	44.84	89.723	3,387.32	1,455.33	1,368.57	1,288.95	79.61	17.190			
13,500.00	9,742.00	12,670.04	8,906.96	47.41	45.46	89.723	3,487.32	1,454.71	1,368.61	1,287.96	80.66	16.969			
13,600.00	9,742.00	12,770.04	8,906.78	48.01	46.09	89.723	3,587.32	1,454.09	1,368.66	1,286.95	81.71	16.750			
13,700.00	9,742.00	12,870.04	8,906.61	48.62	46.73	89.723	3,687.32	1,453.47	1,368.71	1,285.93	82.78	16.535			
13,800.00	9,742.00	12,970.04	8,906.44	49.24	47.38	89.723	3,787.31	1,452.85	1,368.75	1,284.90	83.86	16.322			
13,900.00	9,742.00	13,070.04	8,906.26	49.87	48.03	89.723	3,887.31	1,452.24	1,368.80	1,283.85	84.95	16.113			
14,000.00	9,742.00	13,170.04	8,906.09	50.50	48.69	89.723	3,987.31	1,451.62	1,368.85	1,282.79	86.05	15.907			
14,100.00	9,742.00	13,270.04	8,905.91	51.14	49.36	89.723	4,087.31	1,451.00	1,368.89	1,281.73	87.17	15.704			
14,200.00	9,742.00	13,370.04	8,905.74	51.79	50.03	89.723	4,187.31	1,450.38	1,368.94	1,280.65	88.29	15.505			
14,300.00	9,742.00	13,470.04	8,905.56	52.44	50.71	89.723	4,287.30	1,449.76	1,368.99	1,279.56	89.43	15.309			
14,400.00	9,742.00	13,570.04	8,905.39	53.10	51.39	89.723	4,387.30	1,449.15	1,369.03	1,278.46	90.57	15.116			
14,500.00	9,742.00	13,670.04	8,905.21	53.77	52.08	89.723	4,487.30	1,448.53	1,369.08	1,277.35	91.72	14.926			
14,600.00	9,742.00	13,770.04	8,905.04	54.44	52.78	89.723	4,587.30	1,447.91	1,369.12	1,276.24	92.89	14.740			
14,700.00	9,742.00	13,870.04	8,904.86	55.12	53.48	89.723	4,687.29	1,447.29	1,369.17	1,275.11	94.06	14.556			
14,800.00	9,742.00	13,970.04	8,904.69	55.80	54.18	89.723	4,787.29	1,446.67	1,369.22	1,273.98	95.24	14.377			
14,900.00	9,742.00	14,070.04	8,904.52	56.49	54.89	89.723	4,887.29	1,446.05	1,369.26	1,272.84	96.43	14.200			
15,000.00	9,742.00	14,170.04	8,904.34	57.18	55.60	89.723	4,987.29	1,445.44	1,369.31	1,271.69	97.62	14.026			
15,100.00	9,742.00	14,270.04	8,904.17	57.88	56.32	89.723	5,087.29	1,444.82	1,369.36	1,270.53	98.83	13.856			
15,200.00	9,742.00	14,370.03	8,903.99	58.58	57.05	89.723	5,187.28	1,444.20	1,369.41	1,269.37	100.04	13.689			
15,300.00	9,742.00	14,470.03	8,903.82	59.28	57.77	89.723	5,287.28	1,443.58	1,369.45	1,268.20	101.25	13.525			
15,400.00	9,742.00	14,570.03	8,903.64	59.99	58.50	89.723	5,387.28	1,442.96	1,369.50	1,267.02	102.48	13.364			
15,500.00	9,742.00	14,670.03	8,903.47	60.71	59.24	89.723	5,487.28	1,442.35	1,369.55	1,265.84	103.71	13.206			
15,600.00	9,742.00	14,770.03	8,903.29	61.42	59.97	89.723	5,587.27	1,441.73	1,369.59	1,264.65	104.95	13.050			
15,700.00	9,742.00	14,870.03	8,903.12	62.15	60.71	89.723	5,687.27	1,441.11	1,369.64	1,263.45	106.19	12.898			
15,800.00	9,742.00	14,970.03	8,902.94	62.87	61.46	89.723	5,787.27	1,440.49	1,369.69	1,262.25	107.44	12.749			
15,900.00	9,742.00	15,070.03	8,902.77	63.60	62.21	89.723	5,887.27	1,439.87	1,369.73	1,261.04	108.69	12.602			
16,000.00	9,742.00	15,170.03	8,902.60	64.33	62.96	89.723	5,987.27	1,439.25	1,369.78	1,259.83	109.95	12.458			
16,100.00	9,742.00	15,270.03	8,902.42	65.07	63.71	89.723	6,087.26	1,438.64	1,369.83	1,258.61	111.21	12.317			
16,200.00	9,742.00	15,370.03	8,902.25	65.81	64.47	89.723	6,187.26	1,438.02	1,369.87	1,257.39	112.48	12.178			
16,300.00	9,742.00	15,470.03	8,902.07	66.55	65.22	89.723	6,287.26	1,437.40	1,369.92	1,256.16	113.76	12.042			
16,400.00	9,742.00	15,570.03	8,901.90	67.29	65.99	89.723	6,387.26	1,436.78	1,369.97	1,254.93	115.04	11.909			
16,500.00	9,742.00	15,670.03	8,901.72	68.04	66.75	89.723	6,487.25	1,436.16	1,370.02	1,253.70	116.32	11.778			
16,600.00	9,742.00	15,770.03	8,901.55	68.79	67.52	89.723	6,587.25	1,435.55	1,370.06	1,252.46	117.61	11.649			
16,700.00	9,742.00	15,870.03	8,901.37	69.54	68.29	89.723	6,687.25	1,434.93	1,370.11	1,251.21	118.90	11.523			
16,800.00	9,742.00	15,970.03	8,901.20	70.30	69.06	89.724	6,787.25	1,434.31	1,370.16	1,249.96	120.19	11.399			
16,900.00	9,742.00	16,070.03	8,901.02	71.06	69.83	89.724	6,887.25	1,433.69	1,370.20	1,248.71	121.49	11.278			
17,000.00	9,742.00	16,170.03	8,900.85	71.82	70.61	89.724	6,987.24	1,433.07	1,370.25	1,247.45	122.80	11.159			
17,100.00	9,742.00	16,270.03	8,900.68	72.58	71.39	89.724	7,087.24	1,432.45	1,370.30	1,246.19	124.10	11.041			
17,200.00	9,742.00	16,370.03	8,900.50	73.35	72.17	89.724	7,187.24	1,431.84	1,370.35	1,244.93	125.42	10.926			
17,300.00	9,742.00	16,470.03	8,900.33	74.12	72.95	89.724	7,287.24	1,431.22	1,370.39	1,243.66	126.73	10.814			
17,400.00	9,742.00	16,570.03	8,900.15	74.89	73.73	89.724	7,387.23	1,430.60	1,370.44	1,242.39	128.05	10.703			
17,500.00	9,742.00	16,670.03	8,899.98	75.66	74.52	89.724	7,487.23	1,429.98	1,370.49	1,241.12	129.37	10.594			
17,600.00	9,742.00	16,770.03	8,899.80	76.43	75.30	89.724	7,587.23	1,429.36	1,370.53	1,239.84	130.69	10.487			
17,700.00	9,742.00	16,870.03	8,899.63	77.21	76.09	89.724	7,687.23	1,428.74	1,370.58	1,238.57	132.02	10.382			
17,800.00	9,742.00	16,970.03	8,899.45	77.99	76.89	89.724	7,787.23	1,428.13	1,370.63	1,237.28	133.35	10.279			
17,900.00	9,742.00	17,070.03	8,899.28	78.77	77.68	89.724	7,887.22	1,427.51	1,370.68	1,236.00	134.68	10.177			
18,000.00	9,742.00	17,170.03	8,899.10	79.55	78.47	89.724	7,987.22	1,426.89	1,370.72	1,234.71	136.01	10.078			
18,100.00	9,742.00	17,270.03	8,898.93	80.33	79.27	89.724	8,087.22	1,426.27	1,370.77	1,233.42	137.35	9.980			
18,200.00	9,742.00	17,370.03	8,898.76	81.12	80.07	89.724	8,187.22	1,425.65	1,370.82	1,232.13	138.69	9.884			
18,300.00	9,742.00	17,470.03	8,898.58	81.90	80.86	89.724	8,287.21	1,425.04	1,370.87	1,230.83	140.03	9.790			

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference 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 <th colspan="2">Offset</th> <th colspan="3">Semi Major Axis</th> <th colspan="2">Offset Wellbore Centre</th> <th colspan="2">Rule Assigned:</th> <th colspan="2">Distance</th> <th>Offset Well Error:</th> <td>0.00 usft</td>		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned:		Distance		Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
18,400.00	9,742.00	17,570.03	8,898.41	82.69	81.66	89.724	8,387.21	1,424.42	1,370.91	1,229.54	141.38	9.697				
18,500.00	9,742.00	17,670.03	8,898.23	83.48	82.47	89.724	8,487.21	1,423.80	1,370.96	1,228.24	142.72	9.606				
18,600.00	9,742.00	17,770.03	8,898.06	84.27	83.27	89.724	8,587.21	1,423.18	1,371.01	1,226.94	144.07	9.516				
18,700.00	9,742.00	17,870.03	8,897.88	85.07	84.07	89.724	8,687.20	1,422.56	1,371.06	1,225.63	145.43	9.428				
18,800.00	9,742.00	17,970.03	8,897.71	85.86	84.88	89.724	8,787.20	1,421.94	1,371.10	1,224.33	146.78	9.341				
18,900.00	9,742.00	18,070.03	8,897.53	86.66	85.68	89.724	8,887.20	1,421.33	1,371.15	1,223.02	148.13	9.256				
19,000.00	9,742.00	18,170.03	8,897.36	87.46	86.49	89.724	8,987.20	1,420.71	1,371.20	1,221.71	149.49	9.172				
19,100.00	9,742.00	18,270.03	8,897.18	88.25	87.30	89.724	9,087.20	1,420.09	1,371.25	1,220.40	150.85	9.090				
19,200.00	9,742.00	18,370.03	8,897.01	89.05	88.11	89.724	9,187.19	1,419.47	1,371.30	1,219.08	152.21	9.009				
19,300.00	9,742.00	18,470.03	8,896.84	89.85	88.92	89.724	9,287.19	1,418.85	1,371.34	1,217.77	153.58	8.929				
19,400.00	9,742.00	18,570.03	8,896.66	90.66	89.73	89.724	9,387.19	1,418.24	1,371.39	1,216.45	154.94	8.851				
19,500.00	9,742.00	18,670.03	8,896.49	91.46	90.55	89.724	9,487.19	1,417.62	1,371.44	1,215.13	156.31	8.774				
19,600.00	9,742.00	18,770.03	8,896.31	92.26	91.36	89.724	9,587.18	1,417.00	1,371.49	1,213.81	157.68	8.698				
19,700.00	9,742.00	18,870.03	8,896.14	93.07	92.18	89.724	9,687.18	1,416.38	1,371.53	1,212.49	159.05	8.623				
19,800.00	9,742.00	18,970.03	8,895.96	93.88	92.99	89.724	9,787.18	1,415.76	1,371.58	1,211.16	160.42	8.550				
19,900.00	9,742.00	19,070.03	8,895.79	94.69	93.81	89.724	9,887.18	1,415.14	1,371.63	1,209.84	161.79	8.478				
20,000.00	9,742.00	19,170.03	8,895.61	95.49	94.63	89.724	9,987.18	1,414.53	1,371.68	1,208.51	163.17	8.407				
20,032.45	9,742.00	19,202.47	8,895.56	95.76	94.89	89.724	10,019.62	1,414.33	1,371.69	1,208.08	163.61	8.384 SF				

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference 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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.00	0.00	2.00	0.00	0.00	0.01	88.821	25.00	1,214.34	1,214.60						
100.00	100.00	102.00	100.00	0.26	0.27	88.821	25.00	1,214.34	1,214.60	1,214.06	0.53	2,274.002			
200.00	200.00	202.00	200.00	0.62	0.63	88.821	25.00	1,214.34	1,214.60	1,213.35	1.25	970.850			
300.00	300.00	302.00	300.00	0.98	0.99	88.821	25.00	1,214.34	1,214.60	1,212.63	1.97	617.171			
400.00	400.00	402.00	400.00	1.34	1.35	88.821	25.00	1,214.34	1,214.60	1,211.91	2.68	452.372			
500.00	500.00	502.00	500.00	1.70	1.70	88.821	25.00	1,214.34	1,214.60	1,211.20	3.40	357.036			
600.00	600.00	602.00	600.00	2.06	2.06	88.821	25.00	1,214.34	1,214.60	1,210.48	4.12	294.888			
700.00	700.00	702.00	700.00	2.41	2.42	88.821	25.00	1,214.34	1,214.60	1,209.76	4.84	251.169			
800.00	800.00	802.00	800.00	2.77	2.78	88.821	25.00	1,214.34	1,214.60	1,209.04	5.55	218.739			
900.00	899.99	901.99	899.99	3.11	3.14	88.784	25.00	1,214.34	1,214.18	1,207.93	6.25	194.173			
1,000.00	999.96	1,001.96	999.96	3.45	3.50	88.676	25.00	1,214.34	1,212.93	1,205.99	6.94	174.729			
1,100.00	1,099.86	1,101.86	1,099.86	3.78	3.85	88.494	25.00	1,214.34	1,210.86	1,203.22	7.64	158.584			
1,200.00	1,199.68	1,201.68	1,199.68	4.12	4.21	88.239	25.00	1,214.34	1,207.98	1,199.65	8.33	144.965			
1,300.00	1,299.37	1,301.37	1,299.37	4.47	4.57	87.910	25.00	1,214.34	1,204.32	1,195.28	9.03	133.316			
1,370.13	1,369.19	1,371.19	1,369.19	4.71	4.82	87.633	25.00	1,214.34	1,201.29	1,191.77	9.53	126.100			
1,400.00	1,398.91	1,400.91	1,398.91	4.81	4.93	87.508	25.00	1,214.34	1,199.93	1,190.20	9.74	123.237			
1,500.00	1,498.42	1,500.42	1,498.42	5.16	5.28	87.084	25.00	1,214.34	1,195.41	1,184.97	10.44	114.477			
1,600.00	1,597.92	1,599.92	1,597.92	5.51	5.64	86.658	25.00	1,214.34	1,190.96	1,179.81	11.15	106.809			
1,700.00	1,697.43	1,699.43	1,697.43	5.87	6.00	86.228	25.00	1,214.34	1,186.57	1,174.71	11.86	100.045			
1,800.00	1,796.93	1,798.93	1,796.93	6.22	6.35	85.796	25.00	1,214.34	1,182.25	1,169.68	12.57	94.039			
1,900.00	1,896.44	1,896.70	1,874.69	6.58	6.62	85.375	24.75	1,215.07	1,178.91	1,165.71	13.20	89.328			
2,000.00	1,995.94	1,954.40	1,952.36	6.94	6.89	84.982	24.00	1,217.30	1,177.48	1,163.67	13.81	85.233			
2,024.95	2,020.77	1,973.81	1,971.75	7.03	6.95	84.889	23.74	1,218.09	1,177.42	1,163.45	13.97	84.294 CC, ES			
2,100.00	2,095.45	2,032.21	2,030.07	7.30	7.15	84.619	22.74	1,221.03	1,177.96	1,163.53	14.43	81.645			
2,200.00	2,194.95	2,100.00	2,097.69	7.66	7.38	84.272	21.23	1,225.50	1,180.39	1,165.39	15.00	78.707			
2,300.00	2,294.46	2,187.90	2,185.23	8.02	7.68	83.990	18.71	1,232.99	1,184.59	1,168.94	15.65	75.711			
2,400.00	2,393.97	2,265.64	2,262.49	8.38	7.95	83.725	15.93	1,241.20	1,190.71	1,174.46	16.25	73.277			
2,500.00	2,493.47	2,343.24	2,339.41	8.74	8.22	83.493	12.66	1,250.88	1,198.69	1,181.84	16.85	71.144			
2,600.00	2,592.98	2,420.62	2,415.89	9.11	8.49	83.295	8.91	1,262.01	1,208.50	1,191.06	17.44	69.285			
2,700.00	2,692.48	2,500.00	2,494.09	9.47	8.77	83.139	4.54	1,274.94	1,220.15	1,202.11	18.04	67.628			
2,800.00	2,791.99	2,574.50	2,567.21	9.83	9.03	82.997	-0.03	1,288.48	1,233.60	1,214.99	18.61	66.282			
2,900.00	2,891.49	2,650.88	2,641.86	10.20	9.30	82.895	-5.19	1,303.76	1,248.84	1,229.66	19.19	65.093			
3,000.00	2,991.00	2,726.80	2,715.73	10.56	9.57	82.823	-10.79	1,320.35	1,265.87	1,246.12	19.75	64.088			
3,100.00	3,090.50	2,800.00	2,786.62	10.92	9.84	82.767	-16.63	1,337.66	1,284.67	1,264.37	20.30	63.295			
3,200.00	3,190.01	2,877.07	2,860.85	11.29	10.12	82.761	-23.25	1,357.27	1,305.21	1,284.35	20.86	62.570			
3,300.00	3,289.51	2,966.53	2,946.64	11.65	10.45	82.846	-31.37	1,381.32	1,327.12	1,305.62	21.50	61.719			
3,400.00	3,389.02	3,064.04	3,040.10	12.02	10.81	82.974	-40.25	1,407.63	1,349.14	1,326.94	22.20	60.773			
3,500.00	3,488.52	3,161.54	3,133.57	12.38	11.17	83.099	-49.13	1,433.94	1,371.17	1,348.27	22.90	59.879			
3,600.00	3,588.03	3,259.04	3,227.03	12.75	11.54	83.219	-58.02	1,460.25	1,393.20	1,369.60	23.60	59.034			
3,700.00	3,687.53	3,356.54	3,320.50	13.11	11.92	83.335	-66.90	1,486.55	1,415.24	1,390.94	24.30	58.233			
3,800.00	3,787.04	3,454.04	3,413.96	13.48	12.29	83.448	-75.78	1,512.86	1,437.29	1,412.28	25.01	57.473			
3,900.00	3,886.55	3,551.54	3,507.43	13.85	12.67	83.558	-84.66	1,539.17	1,459.34	1,433.62	25.71	56.753			
4,000.00	3,986.05	3,649.04	3,600.89	14.21	13.04	83.664	-93.54	1,565.47	1,481.39	1,454.97	26.42	56.068			
4,100.00	4,085.56	3,746.55	3,694.35	14.58	13.43	83.767	-102.42	1,591.78	1,503.45	1,476.32	27.13	55.416			
4,200.00	4,185.06	3,844.05	3,787.82	14.94	13.81	83.868	-111.30	1,618.09	1,525.52	1,497.68	27.84	54.795			
4,300.00	4,284.57	3,941.55	3,881.28	15.31	14.19	83.965	-120.18	1,644.39	1,547.58	1,519.03	28.55	54.204			
4,400.00	4,384.07	4,039.05	3,974.75	15.68	14.58	84.060	-129.06	1,670.70	1,569.66	1,540.39	29.26	53.639			
4,500.00	4,483.58	4,136.55	4,068.21	16.04	14.96	84.152	-137.94	1,697.01	1,591.73	1,561.76	29.98	53.100			
4,600.00	4,583.08	4,234.05	4,161.68	16.41	15.35	84.241	-146.83	1,723.31	1,613.81	1,583.12	30.69	52.585			
4,700.00	4,682.59	4,331.56	4,255.14	16.78	15.74	84.328	-155.71	1,749.62	1,635.90	1,604.49	31.40	52.092			
4,800.00	4,782.09	4,429.06	4,348.61	17.14	16.13	84.413	-164.59	1,775.93	1,657.98	1,625.86	32.12	51.620			

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

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

Survey Program: 0-MWD+IFR1+SAG+FDIR		Offset		Semi Major Axis		Azimuth from North (°)	Offset Wellbore Centre		Rule Assigned: Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,900.00	4,881.60	4,526.56	4,442.07	17.51	16.52	84.496	-173.47	1,802.24	1,680.07	1,647.24	32.84	51.167	
5,000.00	4,981.10	4,624.06	4,535.54	17.88	16.91	84.576	-182.35	1,828.54	1,702.17	1,668.62	33.55	50.733	
5,100.00	5,080.61	4,721.56	4,629.00	18.24	17.31	84.654	-191.23	1,854.85	1,724.27	1,690.00	34.27	50.316	
5,200.00	5,180.11	4,819.06	4,722.46	18.61	17.70	84.731	-200.11	1,881.16	1,746.37	1,711.38	34.99	49.916	
5,300.00	5,279.62	4,916.56	4,815.93	18.98	18.10	84.805	-208.99	1,907.46	1,768.47	1,732.76	35.70	49.531	
5,400.00	5,379.12	5,014.07	4,909.39	19.34	18.49	84.878	-217.87	1,933.77	1,790.57	1,754.15	36.42	49.161	
5,500.00	5,478.63	5,111.57	5,002.86	19.71	18.89	84.949	-226.76	1,960.08	1,812.68	1,775.54	37.14	48.804	
5,600.00	5,578.14	5,209.07	5,096.32	20.08	19.28	85.018	-235.64	1,986.38	1,834.79	1,796.93	37.86	48.461	
5,700.00	5,677.64	5,306.57	5,189.79	20.44	19.68	85.086	-244.52	2,012.69	1,856.91	1,818.32	38.58	48.130	
5,800.00	5,777.15	5,404.07	5,283.25	20.81	20.08	85.152	-253.40	2,039.00	1,879.02	1,839.72	39.30	47.810	
5,900.00	5,876.65	5,501.57	5,376.72	21.18	20.48	85.216	-262.28	2,065.30	1,901.14	1,861.12	40.02	47.502	
6,000.00	5,976.16	5,599.07	5,470.18	21.54	20.88	85.279	-271.16	2,091.61	1,923.26	1,882.52	40.74	47.204	
6,100.00	6,075.66	5,696.58	5,563.64	21.91	21.28	85.341	-280.04	2,117.92	1,945.38	1,903.92	41.46	46.917	
6,200.00	6,175.17	5,794.08	5,657.11	22.28	21.68	85.401	-288.92	2,144.22	1,967.51	1,925.32	42.19	46.639	
6,300.00	6,274.67	5,891.58	5,750.57	22.65	22.08	85.460	-297.80	2,170.53	1,989.63	1,946.72	42.91	46.370	
6,400.00	6,374.18	5,989.08	5,844.04	23.01	22.48	85.517	-306.68	2,196.84	2,011.76	1,968.13	43.63	46.109	
6,456.91	6,430.81	6,044.57	5,897.23	23.22	22.71	85.549	-311.74	2,211.81	2,024.35	1,980.31	44.04	45.965	
6,500.00	6,473.70	6,086.56	5,937.48	23.38	22.88	85.578	-315.56	2,223.14	2,033.96	1,989.61	44.35	45.859	
6,600.00	6,573.35	6,183.86	6,030.75	23.75	23.28	85.674	-324.43	2,249.39	2,056.80	2,011.73	45.07	45.635	
6,700.00	6,673.13	6,280.91	6,123.79	24.11	23.68	85.813	-333.27	2,275.58	2,080.41	2,034.62	45.79	45.438	
6,800.00	6,773.02	6,377.69	6,216.56	24.47	24.08	85.992	-342.08	2,301.69	2,104.78	2,058.28	46.49	45.269	
6,900.00	6,872.97	6,474.16	6,309.03	24.82	24.48	86.209	-350.87	2,327.72	2,129.92	2,082.72	47.20	45.127	
7,000.00	6,972.96	6,570.29	6,401.19	25.18	24.87	86.464	-359.62	2,353.66	2,155.85	2,107.95	47.90	45.010	
7,027.04	7,000.00	6,596.23	6,426.05	25.27	24.98	86.539	-361.99	2,360.65	2,163.00	2,114.91	48.08	44.986	
7,100.00	7,072.96	6,666.17	6,493.09	25.51	25.27	86.743	-368.36	2,379.52	2,182.37	2,133.80	48.57	44.935	
7,200.00	7,172.96	6,762.03	6,584.98	25.83	25.66	87.017	-377.09	2,405.39	2,208.96	2,159.73	49.23	44.867	
7,300.00	7,272.96	6,857.89	6,676.87	26.16	26.06	87.285	-385.82	2,431.25	2,235.60	2,185.70	49.90	44.801	
7,400.00	7,372.96	6,953.75	6,768.76	26.48	26.46	87.546	-394.55	2,457.12	2,262.29	2,211.72	50.57	44.736	
7,500.00	7,472.96	7,049.61	6,860.65	26.81	26.85	87.802	-403.28	2,482.98	2,289.02	2,237.78	51.24	44.673	
7,600.00	7,572.96	7,145.47	6,952.54	27.14	27.25	88.051	-412.01	2,508.84	2,315.79	2,263.88	51.91	44.612	
7,700.00	7,672.96	7,241.32	7,044.43	27.47	27.65	88.295	-420.75	2,534.71	2,342.60	2,290.02	52.58	44.552	
7,800.00	7,772.96	7,402.13	7,199.03	27.79	28.31	88.679	-434.90	2,576.63	2,368.82	2,315.15	53.67	44.140	
7,900.00	7,872.96	7,638.61	7,429.31	28.12	29.25	89.126	-452.05	2,627.43	2,390.23	2,335.11	55.12	43.365	
8,000.00	7,972.96	7,881.09	7,668.41	28.46	30.16	89.447	-464.87	2,665.40	2,405.86	2,349.42	56.44	42.624	
8,100.00	8,072.96	8,081.27	7,867.42	28.79	30.87	89.615	-471.71	2,685.67	2,415.49	2,358.01	57.48	42.026	
8,200.00	8,172.96	8,376.76	8,162.54	29.12	31.87	89.715	-475.86	2,697.95	2,419.01	2,360.41	58.60	41.282	
8,300.00	8,272.96	8,487.18	8,272.96	29.45	32.22	89.716	-475.87	2,697.99	2,419.02	2,359.75	59.27	40.811	
8,400.00	8,372.96	8,587.18	8,372.96	29.78	32.54	89.716	-475.87	2,697.99	2,419.02	2,359.09	59.94	40.361	
8,463.48	8,436.44	8,650.76	8,436.44	30.00	32.74	89.649	-473.08	2,697.98	2,419.02	2,358.66	60.36	40.079	
8,500.00	8,472.96	8,686.83	8,472.21	30.12	32.85	89.538	-468.39	2,697.95	2,419.03	2,358.43	60.60	39.919	
8,600.00	8,572.96	8,781.21	8,563.69	30.45	33.12	88.999	-445.60	2,697.81	2,419.19	2,357.94	61.26	39.493	
8,700.00	8,672.96	8,866.19	8,641.86	30.79	33.34	88.215	-412.49	2,697.60	2,419.98	2,358.07	61.90	39.094	
8,800.00	8,772.96	8,939.99	8,705.15	31.12	33.51	87.319	-374.63	2,697.37	2,421.97	2,359.45	62.52	38.738	
8,900.00	8,872.96	9,000.00	8,752.68	31.46	33.63	86.454	-338.04	2,697.14	2,425.76	2,362.67	63.10	38.445	
9,000.00	8,972.96	9,050.00	8,789.19	31.80	33.71	85.649	-303.90	2,696.93	2,431.88	2,368.26	63.62	38.225	
9,100.00	9,072.96	9,100.00	8,822.58	32.13	33.78	84.773	-266.70	2,696.70	2,440.68	2,376.57	64.10	38.074	
9,196.08	9,169.04	9,135.70	8,844.37	32.46	33.82	84.109	-238.44	2,696.53	2,451.95	2,387.46	64.49	38.021	
9,200.00	9,172.96	9,137.05	8,845.16	32.47	33.82	84.084	-237.34	2,696.52	2,452.47	2,387.97	64.50	38.020	
9,250.00	9,222.88	9,150.00	8,852.60	32.64	33.84	83.893	-226.74	2,696.46	2,458.94	2,394.27	64.67	38.025	
9,300.00	9,272.39	9,172.72	8,865.07	32.80	33.86	83.604	-207.75	2,696.34	2,465.05	2,400.21	64.84	38.020	

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference 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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
9,350.00	9,321.11	9,200.00	8,879.03	32.96	33.88	83.309	-184.31	2,696.20	2,470.76	2,405.76	65.00	38.010			
9,400.00	9,368.68	9,200.00	8,879.03	33.12	33.88	83.660	-184.31	2,696.20	2,475.94	2,410.88	65.06	38.055			
9,450.00	9,414.73	9,229.43	8,892.81	33.26	33.90	83.494	-158.32	2,696.04	2,480.48	2,415.28	65.20	38.046			
9,500.00	9,458.90	9,250.00	8,901.65	33.40	33.91	83.593	-139.75	2,695.92	2,484.39	2,419.10	65.29	38.052			
9,550.00	9,500.88	9,268.71	8,909.11	33.53	33.92	83.812	-122.59	2,695.82	2,487.57	2,422.22	65.36	38.062			
9,600.00	9,540.32	9,300.00	8,920.31	33.65	33.93	83.828	-93.37	2,695.64	2,490.03	2,424.58	65.45	38.045			
9,650.00	9,576.94	9,300.00	8,920.31	33.77	33.93	84.615	-93.37	2,695.64	2,491.59	2,426.15	65.44	38.077			
9,700.00	9,610.46	9,329.11	8,929.28	33.87	33.94	84.818	-65.69	2,695.47	2,492.26	2,426.76	65.50	38.050			
9,750.00	9,640.61	9,350.00	8,934.85	33.96	33.94	85.267	-45.55	2,695.34	2,492.07	2,426.53	65.53	38.028			
9,800.00	9,667.18	9,370.04	8,939.50	34.05	33.94	85.793	-26.06	2,695.22	2,490.96	2,425.40	65.56	37.997			
9,850.00	9,689.96	9,400.00	8,945.17	34.13	33.94	86.134	3.35	2,695.05	2,488.96	2,423.35	65.60	37.939			
9,900.00	9,708.77	9,400.00	8,945.17	34.20	33.94	87.232	3.35	2,695.04	2,486.00	2,420.42	65.58	37.909			
9,950.00	9,723.48	9,432.06	8,949.53	34.27	33.94	87.601	35.11	2,694.85	2,482.03	2,416.41	65.63	37.820			
10,000.00	9,733.96	9,450.00	8,951.19	34.32	33.94	88.338	52.97	2,694.74	2,477.22	2,411.57	65.65	37.733			
10,050.00	9,740.15	9,473.63	8,952.52	34.37	33.94	88.957	76.56	2,694.59	2,471.50	2,405.82	65.69	37.625			
10,096.08	9,742.00	9,495.15	8,952.89	34.41	33.93	89.544	98.08	2,694.46	2,465.48	2,399.76	65.73	37.512			
10,100.00	9,742.00	9,495.15	8,952.89	34.41	33.93	89.639	98.08	2,694.46	2,464.94	2,399.22	65.73	37.503			
10,200.00	9,742.00	9,592.65	8,952.72	34.50	33.91	89.681	195.57	2,693.86	2,453.01	2,387.10	65.91	37.219			
10,300.00	9,742.00	9,692.22	8,952.54	34.62	33.90	89.681	295.14	2,693.24	2,444.36	2,378.22	66.14	36.958			
10,400.00	9,742.00	9,792.05	8,952.37	34.75	33.89	89.681	394.97	2,692.63	2,439.01	2,372.60	66.42	36.723			
10,500.00	9,742.00	9,892.02	8,952.19	34.91	33.88	89.681	494.94	2,692.01	2,436.97	2,370.23	66.74	36.514			
10,511.62	9,742.00	9,903.64	8,952.17	34.93	33.88	89.681	506.56	2,691.94	2,436.94	2,370.16	66.78	36.492			
10,600.00	9,742.00	9,992.02	8,952.02	35.09	33.88	89.681	594.94	2,691.40	2,436.93	2,369.82	67.11	36.314			
10,700.00	9,742.00	10,092.02	8,951.85	35.29	33.88	89.681	694.94	2,690.78	2,436.92	2,369.40	67.51	36.094			
10,800.00	9,742.00	10,192.02	8,951.67	35.51	33.89	89.681	794.93	2,690.17	2,436.90	2,368.94	67.96	35.858			
10,900.00	9,742.00	10,292.02	8,951.50	35.75	33.93	89.681	894.93	2,689.55	2,436.89	2,368.45	68.44	35.604			
11,000.00	9,742.00	10,392.02	8,951.32	36.00	34.00	89.681	994.93	2,688.93	2,436.88	2,367.91	68.96	35.335			
11,100.00	9,742.00	10,492.02	8,951.15	36.28	34.14	89.681	1,094.93	2,688.32	2,436.87	2,367.34	69.52	35.052			
11,200.00	9,742.00	10,592.02	8,950.97	36.58	34.36	89.681	1,194.93	2,687.70	2,436.85	2,366.74	70.11	34.756			
11,300.00	9,742.00	10,692.02	8,950.80	36.89	34.65	89.681	1,294.92	2,687.09	2,436.84	2,366.10	70.74	34.448			
11,400.00	9,742.00	10,792.02	8,950.62	37.22	34.97	89.681	1,394.92	2,686.47	2,436.83	2,365.43	71.40	34.130			
11,500.00	9,742.00	10,892.02	8,950.45	37.57	35.32	89.681	1,494.92	2,685.85	2,436.81	2,364.72	72.09	33.802			
11,600.00	9,742.00	10,992.02	8,950.28	37.93	35.70	89.681	1,594.92	2,685.24	2,436.80	2,363.99	72.81	33.466			
11,700.00	9,742.00	11,092.02	8,950.10	38.31	36.09	89.681	1,694.91	2,684.62	2,436.79	2,363.22	73.57	33.123			
11,800.00	9,742.00	11,192.02	8,949.93	38.71	36.50	89.681	1,794.91	2,684.01	2,436.77	2,362.42	74.35	32.773			
11,900.00	9,742.00	11,292.02	8,949.75	39.12	36.92	89.681	1,894.91	2,683.39	2,436.76	2,361.60	75.17	32.419			
12,000.00	9,742.00	11,392.02	8,949.58	39.55	37.36	89.681	1,994.91	2,682.77	2,436.75	2,360.74	76.01	32.060			
12,100.00	9,742.00	11,492.02	8,949.40	39.99	37.82	89.681	2,094.91	2,682.16	2,436.74	2,359.86	76.87	31.698			
12,200.00	9,742.00	11,592.02	8,949.23	40.44	38.29	89.681	2,194.90	2,681.54	2,436.72	2,358.96	77.77	31.334			
12,300.00	9,742.00	11,692.02	8,949.05	40.91	38.78	89.682	2,294.90	2,680.93	2,436.71	2,358.02	78.69	30.968			
12,400.00	9,742.00	11,792.02	8,948.88	41.39	39.27	89.682	2,394.90	2,680.31	2,436.70	2,357.07	79.63	30.601			
12,500.00	9,742.00	11,892.02	8,948.71	41.88	39.78	89.682	2,494.90	2,679.69	2,436.68	2,356.09	80.60	30.234			
12,600.00	9,742.00	11,992.02	8,948.53	42.39	40.31	89.682	2,594.89	2,679.08	2,436.67	2,355.09	81.58	29.867			
12,700.00	9,742.00	12,092.02	8,948.36	42.91	40.84	89.682	2,694.89	2,678.46	2,436.66	2,354.06	82.60	29.501			
12,800.00	9,742.00	12,192.02	8,948.18	43.43	41.39	89.682	2,794.89	2,677.85	2,436.65	2,353.02	83.63	29.137			
12,900.00	9,742.00	12,292.02	8,948.01	43.97	41.94	89.682	2,894.89	2,677.23	2,436.63	2,351.95	84.68	28.775			
13,000.00	9,742.00	12,392.02	8,947.83	44.52	42.51	89.682	2,994.89	2,676.62	2,436.62	2,350.87	85.75	28.415			
13,100.00	9,742.00	12,492.02	8,947.66	45.08	43.08	89.682	3,094.88	2,676.00	2,436.61	2,349.77	86.84	28.058			
13,200.00	9,742.00	12,592.02	8,947.48	45.65	43.67	89.682	3,194.88	2,675.38	2,436.59	2,348.65	87.95	27.705			
13,300.00	9,742.00	12,692.02	8,947.31	46.23	44.26	89.682	3,294.88	2,674.77	2,436.58	2,347.51	89.07	27.354			
13,400.00	9,742.00	12,792.02	8,947.13	46.81	44.87	89.682	3,394.88	2,674.15	2,436.57	2,346.35	90.22	27.008			

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

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

Survey Program: 0-MWD+IFR1+SAG+FDIR										Rule Assigned:		Offset Site Error: 0.00 usft	
Reference Offset										Offset Well Error: 0.00 usft		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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	
13,500.00	9,742.00	12,892.02	8,946.96	47.41	45.48	89.682	3,494.87	2,673.54	2,436.56	2,345.18	91.37	26.665	
13,600.00	9,742.00	12,992.02	8,946.79	48.01	46.10	89.682	3,594.87	2,672.92	2,436.54	2,344.00	92.55	26.327	
13,700.00	9,742.00	13,092.02	8,946.61	48.62	46.73	89.682	3,694.87	2,672.30	2,436.53	2,342.79	93.74	25.993	
13,800.00	9,742.00	13,192.02	8,946.44	49.24	47.36	89.682	3,794.87	2,671.69	2,436.52	2,341.58	94.94	25.664	
13,900.00	9,742.00	13,292.01	8,946.26	49.87	48.01	89.682	3,894.87	2,671.07	2,436.51	2,340.35	96.16	25.339	
14,000.00	9,742.00	13,392.01	8,946.09	50.50	48.66	89.682	3,994.86	2,670.46	2,436.49	2,339.11	97.39	25.019	
14,100.00	9,742.00	13,492.01	8,945.91	51.14	49.31	89.682	4,094.86	2,669.84	2,436.48	2,337.85	98.63	24.703	
14,200.00	9,742.00	13,592.01	8,945.74	51.79	49.98	89.682	4,194.86	2,669.22	2,436.47	2,336.58	99.88	24.393	
14,300.00	9,742.00	13,692.01	8,945.56	52.44	50.65	89.682	4,294.86	2,668.61	2,436.46	2,335.30	101.15	24.087	
14,400.00	9,742.00	13,792.01	8,945.39	53.10	51.32	89.682	4,394.85	2,667.99	2,436.44	2,334.01	102.43	23.786	
14,500.00	9,742.00	13,892.01	8,945.22	53.77	52.00	89.682	4,494.85	2,667.38	2,436.43	2,332.71	103.72	23.491	
14,600.00	9,742.00	13,992.01	8,945.04	54.44	52.69	89.682	4,594.85	2,666.76	2,436.42	2,331.40	105.02	23.200	
14,700.00	9,742.00	14,092.01	8,944.87	55.12	53.38	89.682	4,694.85	2,666.14	2,436.41	2,330.08	106.33	22.914	
14,800.00	9,742.00	14,192.01	8,944.69	55.80	54.07	89.682	4,794.85	2,665.53	2,436.39	2,328.74	107.65	22.633	
14,900.00	9,742.00	14,292.01	8,944.52	56.49	54.78	89.682	4,894.84	2,664.91	2,436.38	2,327.40	108.98	22.357	
15,000.00	9,742.00	14,392.01	8,944.34	57.18	55.48	89.682	4,994.84	2,664.30	2,436.37	2,326.05	110.32	22.085	
15,100.00	9,742.00	14,492.01	8,944.17	57.88	56.19	89.682	5,094.84	2,663.68	2,436.36	2,324.69	111.66	21.819	
15,200.00	9,742.00	14,592.01	8,943.99	58.58	56.91	89.682	5,194.84	2,663.07	2,436.34	2,323.33	113.02	21.557	
15,300.00	9,742.00	14,692.01	8,943.82	59.28	57.63	89.682	5,294.83	2,662.45	2,436.33	2,321.95	114.38	21.300	
15,400.00	9,742.00	14,792.01	8,943.65	59.99	58.35	89.682	5,394.83	2,661.83	2,436.32	2,320.57	115.75	21.048	
15,500.00	9,742.00	14,892.01	8,943.47	60.71	59.07	89.682	5,494.83	2,661.22	2,436.31	2,319.17	117.13	20.800	
15,600.00	9,742.00	14,992.01	8,943.30	61.42	59.81	89.682	5,594.83	2,660.60	2,436.29	2,317.78	118.52	20.556	
15,700.00	9,742.00	15,092.01	8,943.12	62.15	60.54	89.682	5,694.82	2,659.99	2,436.28	2,316.37	119.91	20.317	
15,800.00	9,742.00	15,192.01	8,942.95	62.87	61.28	89.682	5,794.82	2,659.37	2,436.27	2,314.96	121.31	20.083	
15,900.00	9,742.00	15,292.01	8,942.77	63.60	62.02	89.682	5,894.82	2,658.75	2,436.26	2,313.54	122.72	19.852	
16,000.00	9,742.00	15,392.01	8,942.60	64.33	62.76	89.682	5,994.82	2,658.14	2,436.24	2,312.11	124.13	19.626	
16,100.00	9,742.00	15,492.01	8,942.42	65.07	63.51	89.682	6,094.82	2,657.52	2,436.23	2,310.68	125.55	19.404	
16,200.00	9,742.00	15,592.01	8,942.25	65.81	64.26	89.682	6,194.81	2,656.91	2,436.22	2,309.24	126.97	19.187	
16,300.00	9,742.00	15,692.01	8,942.07	66.55	65.01	89.682	6,294.81	2,656.29	2,436.21	2,307.80	128.41	18.973	
16,400.00	9,742.00	15,792.01	8,941.90	67.29	65.77	89.682	6,394.81	2,655.67	2,436.20	2,306.35	129.84	18.763	
16,500.00	9,742.00	15,892.01	8,941.73	68.04	66.53	89.682	6,494.81	2,655.06	2,436.18	2,304.90	131.28	18.557	
16,600.00	9,742.00	15,992.01	8,941.55	68.79	67.29	89.682	6,594.80	2,654.44	2,436.17	2,303.44	132.73	18.354	
16,700.00	9,742.00	16,092.01	8,941.38	69.54	68.05	89.682	6,694.80	2,653.83	2,436.16	2,301.98	134.18	18.156	
16,800.00	9,742.00	16,192.01	8,941.20	70.30	68.82	89.682	6,794.80	2,653.21	2,436.15	2,300.51	135.64	17.961	
16,900.00	9,742.00	16,292.01	8,941.03	71.06	69.59	89.682	6,894.80	2,652.59	2,436.13	2,299.03	137.10	17.769	
17,000.00	9,742.00	16,392.01	8,940.85	71.82	70.36	89.682	6,994.80	2,651.98	2,436.12	2,297.56	138.57	17.581	
17,100.00	9,742.00	16,492.01	8,940.68	72.58	71.13	89.682	7,094.79	2,651.36	2,436.11	2,296.07	140.04	17.396	
17,200.00	9,742.00	16,592.01	8,940.50	73.35	71.90	89.682	7,194.79	2,650.75	2,436.10	2,294.59	141.51	17.215	
17,300.00	9,742.00	16,692.01	8,940.33	74.12	72.68	89.682	7,294.79	2,650.13	2,436.09	2,293.10	142.99	17.037	
17,400.00	9,742.00	16,792.01	8,940.16	74.89	73.46	89.682	7,394.79	2,649.52	2,436.07	2,291.60	144.47	16.862	
17,500.00	9,742.00	16,892.01	8,939.98	75.66	74.24	89.682	7,494.78	2,648.90	2,436.06	2,290.10	145.96	16.690	
17,600.00	9,742.00	16,992.01	8,939.81	76.43	75.03	89.682	7,594.78	2,648.28	2,436.05	2,288.60	147.45	16.521	
17,700.00	9,742.00	17,092.01	8,939.63	77.21	75.81	89.682	7,694.78	2,647.67	2,436.04	2,287.10	148.94	16.356	
17,800.00	9,742.00	17,192.01	8,939.46	77.99	76.60	89.682	7,794.78	2,647.05	2,436.02	2,285.59	150.44	16.193	
17,900.00	9,742.00	17,292.01	8,939.28	78.77	77.39	89.682	7,894.78	2,646.44	2,436.01	2,284.07	151.94	16.033	
18,000.00	9,742.00	17,392.01	8,939.11	79.55	78.18	89.682	7,994.77	2,645.82	2,436.00	2,282.56	153.44	15.876	
18,100.00	9,742.00	17,492.01	8,938.93	80.33	78.97	89.682	8,094.77	2,645.20	2,435.99	2,281.04	154.95	15.721	
18,200.00	9,742.00	17,592.01	8,938.76	81.12	79.76	89.682	8,194.77	2,644.59	2,435.98	2,279.52	156.46	15.569	
18,300.00	9,742.00	17,692.01	8,938.59	81.90	80.55	89.682	8,294.77	2,643.97	2,435.96	2,277.99	157.97	15.420	
18,400.00	9,742.00	17,792.01	8,938.41	82.69	81.35	89.682	8,394.76	2,643.36	2,435.95	2,276.46	159.49	15.273	

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference 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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
18,500.00	9,742.00	17,892.01	8,938.24	83.48	82.15	89.682	8,494.76	2,642.74	2,435.94	2,274.93	161.01	15.129			
18,600.00	9,742.00	17,992.01	8,938.06	84.27	82.95	89.682	8,594.76	2,642.12	2,435.93	2,273.40	162.53	14.988			
18,700.00	9,742.00	18,092.01	8,937.89	85.07	83.75	89.682	8,694.76	2,641.51	2,435.92	2,271.86	164.05	14.848			
18,800.00	9,742.00	18,192.01	8,937.71	85.86	84.55	89.682	8,794.76	2,640.89	2,435.91	2,270.32	165.58	14.711			
18,900.00	9,742.00	18,292.01	8,937.54	86.66	85.35	89.682	8,894.75	2,640.28	2,435.89	2,268.78	167.11	14.576			
19,000.00	9,742.00	18,392.01	8,937.36	87.46	86.16	89.682	8,994.75	2,639.66	2,435.88	2,267.24	168.64	14.444			
19,100.00	9,742.00	18,492.01	8,937.19	88.25	86.96	89.682	9,094.75	2,639.05	2,435.87	2,265.69	170.18	14.314			
19,200.00	9,742.00	18,592.01	8,937.01	89.05	87.77	89.682	9,194.75	2,638.43	2,435.86	2,264.14	171.72	14.185			
19,300.00	9,742.00	18,692.01	8,936.84	89.85	88.58	89.682	9,294.74	2,637.81	2,435.85	2,262.59	173.25	14.059			
19,400.00	9,742.00	18,792.01	8,936.67	90.66	89.39	89.682	9,394.74	2,637.20	2,435.83	2,261.04	174.80	13.935			
19,500.00	9,742.00	18,892.01	8,936.49	91.46	90.20	89.682	9,494.74	2,636.58	2,435.82	2,259.48	176.34	13.813			
19,600.00	9,742.00	18,992.00	8,936.32	92.26	91.01	89.682	9,594.74	2,635.97	2,435.81	2,257.93	177.88	13.693			
19,700.00	9,742.00	19,092.00	8,936.14	93.07	91.82	89.682	9,694.74	2,635.35	2,435.80	2,256.37	179.43	13.575			
19,800.00	9,742.00	19,192.00	8,935.97	93.88	92.63	89.682	9,794.73	2,634.73	2,435.79	2,254.81	180.98	13.459			
19,900.00	9,742.00	19,292.00	8,935.79	94.69	93.45	89.682	9,894.73	2,634.12	2,435.78	2,253.24	182.53	13.344			
20,000.00	9,742.00	19,392.00	8,935.62	95.49	94.26	89.682	9,994.73	2,633.50	2,435.76	2,251.68	184.09	13.232			
20,032.45	9,742.00	19,424.45	8,935.56	95.76	94.53	89.682	10,027.17	2,633.30	2,435.76	2,251.17	184.59	13.195 SF			

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference 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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.00	0.00	2.00	0.00	0.00	0.01	90.000	0.00	1,189.34	1,189.34						
100.00	100.00	102.00	100.00	0.26	0.27	90.000	0.00	1,189.34	1,189.34	1,188.81	0.53	2,226.715			
200.00	200.00	202.00	200.00	0.62	0.63	90.000	0.00	1,189.34	1,189.34	1,188.09	1.25	950.661			
300.00	300.00	302.00	300.00	0.98	0.99	90.000	0.00	1,189.34	1,189.34	1,187.37	1.97	604.337			
400.00	400.00	402.00	400.00	1.34	1.35	90.000	0.00	1,189.34	1,189.34	1,186.66	2.68	442.965			
500.00	500.00	502.00	500.00	1.70	1.70	90.000	0.00	1,189.34	1,189.34	1,185.94	3.40	349.611			
600.00	600.00	602.00	600.00	2.06	2.06	90.000	0.00	1,189.34	1,189.34	1,185.22	4.12	288.756			
700.00	700.00	702.00	700.00	2.41	2.42	90.000	0.00	1,189.34	1,189.34	1,184.50	4.84	245.946			
800.00	800.00	802.00	800.00	2.77	2.78	90.000	0.00	1,189.34	1,189.34	1,183.79	5.55	214.190			
900.00	899.99	901.99	899.99	3.11	3.14	89.963	0.00	1,189.34	1,188.91	1,182.65	6.25	190.131			
1,000.00	999.96	1,001.96	999.96	3.45	3.50	89.854	0.00	1,189.34	1,187.61	1,180.67	6.94	171.082			
1,100.00	1,099.86	1,101.86	1,099.86	3.78	3.85	89.671	0.00	1,189.34	1,185.46	1,177.83	7.64	155.258			
1,200.00	1,199.68	1,200.00	1,198.00	4.12	4.21	89.413	0.00	1,189.34	1,182.47	1,174.15	8.33	142.007			
1,300.00	1,299.37	1,295.79	1,293.78	4.47	4.53	89.117	-0.76	1,189.58	1,178.91	1,169.91	9.00	131.042			
1,370.13	1,369.19	1,361.91	1,359.89	4.71	4.75	88.908	-2.18	1,190.02	1,176.20	1,166.75	9.46	124.394			
1,400.00	1,398.91	1,390.09	1,388.06	4.81	4.84	88.821	-3.01	1,190.28	1,175.04	1,165.38	9.65	121.750			
1,500.00	1,498.42	1,484.56	1,482.45	5.16	5.16	88.578	-6.74	1,191.45	1,171.44	1,161.13	10.31	113.603			
1,600.00	1,597.92	1,579.18	1,576.91	5.51	5.47	88.408	-11.97	1,193.08	1,168.31	1,157.33	10.98	106.420			
1,700.00	1,697.43	1,673.90	1,671.36	5.87	5.79	88.311	-18.70	1,195.18	1,165.64	1,153.99	11.65	100.056			
1,800.00	1,796.93	1,768.66	1,765.73	6.22	6.11	88.287	-26.91	1,197.75	1,163.41	1,151.09	12.33	94.389			
1,900.00	1,896.44	1,865.95	1,862.48	6.58	6.45	88.342	-36.71	1,200.80	1,161.59	1,148.57	13.01	89.253			
2,000.00	1,995.94	1,965.92	1,961.87	6.94	6.79	88.421	-46.97	1,204.01	1,159.82	1,146.10	13.72	84.555			
2,100.00	2,095.45	2,065.90	2,061.26	7.30	7.14	88.500	-57.24	1,207.21	1,158.05	1,143.63	14.42	80.295			
2,200.00	2,194.95	2,165.87	2,160.65	7.66	7.49	88.579	-67.50	1,210.42	1,156.29	1,141.16	15.13	76.419			
2,300.00	2,294.46	2,265.84	2,260.04	8.02	7.84	88.658	-77.76	1,213.63	1,154.53	1,138.69	15.84	72.878			
2,400.00	2,393.97	2,365.81	2,359.43	8.38	8.19	88.737	-88.03	1,216.83	1,152.77	1,136.21	16.56	69.632			
2,500.00	2,493.47	2,465.78	2,458.83	8.74	8.55	88.817	-98.29	1,220.04	1,151.01	1,133.74	17.27	66.647			
2,600.00	2,592.98	2,565.75	2,558.22	9.11	8.90	88.897	-108.56	1,223.24	1,149.26	1,131.27	17.99	63.894			
2,700.00	2,692.48	2,665.72	2,657.61	9.47	9.26	88.978	-118.82	1,226.45	1,147.51	1,128.80	18.71	61.347			
2,800.00	2,791.99	2,765.70	2,757.00	9.83	9.62	89.058	-129.09	1,229.65	1,145.76	1,126.33	19.42	58.985			
2,900.00	2,891.49	2,865.67	2,856.39	10.20	9.98	89.139	-139.35	1,232.86	1,144.01	1,123.86	20.15	56.788			
3,000.00	2,991.00	2,965.64	2,955.78	10.56	10.34	89.220	-149.61	1,236.06	1,142.26	1,121.40	20.87	54.740			
3,100.00	3,090.50	3,065.61	3,055.17	10.92	10.70	89.301	-159.88	1,239.27	1,140.52	1,118.93	21.59	52.827			
3,200.00	3,190.01	3,165.58	3,154.57	11.29	11.06	89.383	-170.14	1,242.48	1,138.78	1,116.47	22.31	51.036			
3,300.00	3,289.51	3,265.55	3,253.96	11.65	11.42	89.464	-180.41	1,245.68	1,137.04	1,114.01	23.04	49.356			
3,400.00	3,389.02	3,365.53	3,353.35	12.02	11.78	89.546	-190.67	1,248.89	1,135.31	1,111.55	23.76	47.777			
3,500.00	3,488.52	3,465.50	3,452.74	12.38	12.14	89.629	-200.94	1,252.09	1,133.57	1,109.09	24.49	46.291			
3,600.00	3,588.03	3,565.47	3,552.13	12.75	12.51	89.711	-211.20	1,255.30	1,131.84	1,106.63	25.21	44.889			
3,700.00	3,687.53	3,665.44	3,651.52	13.11	12.87	89.794	-221.46	1,258.50	1,130.11	1,104.17	25.94	43.565			
3,800.00	3,787.04	3,765.41	3,750.92	13.48	13.23	89.877	-231.73	1,261.71	1,128.39	1,101.72	26.67	42.312			
3,900.00	3,886.55	3,865.38	3,850.31	13.85	13.60	89.960	-241.99	1,264.91	1,126.66	1,099.27	27.40	41.126			
4,000.00	3,986.05	3,965.36	3,949.70	14.21	13.96	90.044	-252.26	1,268.12	1,124.94	1,096.82	28.12	40.000			
4,100.00	4,085.56	4,065.33	4,049.09	14.58	14.32	90.128	-262.52	1,271.33	1,123.22	1,094.37	28.85	38.931			
4,200.00	4,185.06	4,165.30	4,148.48	14.94	14.69	90.212	-272.79	1,274.53	1,121.51	1,091.93	29.58	37.914			
4,300.00	4,284.57	4,265.27	4,247.87	15.31	15.05	90.296	-283.05	1,277.74	1,119.79	1,089.48	30.31	36.946			
4,400.00	4,384.07	4,365.24	4,347.27	15.68	15.42	90.381	-293.32	1,280.94	1,118.08	1,087.04	31.04	36.022			
4,500.00	4,483.58	4,465.21	4,446.66	16.04	15.79	90.465	-303.58	1,284.15	1,116.37	1,084.60	31.77	35.142			
4,600.00	4,583.08	4,565.18	4,546.05	16.41	16.15	90.550	-313.84	1,287.35	1,114.67	1,082.17	32.50	34.300			
4,700.00	4,682.59	4,665.16	4,645.44	16.78	16.52	90.636	-324.11	1,290.56	1,112.96	1,079.73	33.23	33.495			
4,800.00	4,782.09	4,765.13	4,744.83	17.14	16.88	90.721	-334.37	1,293.76	1,111.26	1,077.30	33.96	32.725			
4,900.00	4,881.60	4,865.10	4,844.22	17.51	17.25	90.807	-344.64	1,296.97	1,109.56	1,074.87	34.69	31.987			

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

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

Survey Program: 0-MWD+IFR1+SAG+FDIR		Offset		Semi Major Axis		Azimuth from North (°)	Offset Wellbore Centre		Rule Assigned: Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,981.10	4,965.07	4,943.61	17.88	17.61	90.893	-354.90	1,300.18	1,107.86	1,072.45	35.42	31.279	
5,100.00	5,080.61	5,065.04	5,043.01	18.24	17.98	90.980	-365.17	1,303.38	1,106.17	1,070.02	36.15	30.600	
5,200.00	5,180.11	5,165.01	5,142.40	18.61	18.35	91.067	-375.43	1,306.59	1,104.48	1,067.60	36.88	29.948	
5,300.00	5,279.62	5,264.99	5,241.79	18.98	18.71	91.154	-385.69	1,309.79	1,102.79	1,065.18	37.61	29.321	
5,400.00	5,379.12	5,364.96	5,341.18	19.34	19.08	91.241	-395.96	1,313.00	1,101.10	1,062.76	38.34	28.718	
5,500.00	5,478.63	5,464.93	5,440.57	19.71	19.45	91.328	-406.22	1,316.20	1,099.42	1,060.35	39.07	28.138	
5,600.00	5,578.14	5,564.90	5,539.96	20.08	19.82	91.416	-416.49	1,319.41	1,097.74	1,057.93	39.80	27.578	
5,700.00	5,677.64	5,664.87	5,639.36	20.44	20.18	91.504	-426.75	1,322.61	1,096.06	1,055.52	40.54	27.039	
5,800.00	5,777.15	5,764.84	5,738.75	20.81	20.55	91.592	-437.02	1,325.82	1,094.38	1,053.12	41.27	26.520	
5,900.00	5,876.65	5,864.82	5,838.14	21.18	20.92	91.681	-447.28	1,329.03	1,092.71	1,050.71	42.00	26.018	
6,000.00	5,976.16	5,968.54	5,941.29	21.54	21.30	91.774	-457.63	1,332.26	1,090.94	1,048.20	42.74	25.523	
6,100.00	6,075.66	6,075.18	6,047.52	21.91	21.69	91.795	-466.58	1,335.05	1,088.62	1,045.13	43.50	25.028	
6,200.00	6,175.17	6,181.75	6,153.84	22.28	22.07	91.716	-473.63	1,337.26	1,085.69	1,041.45	44.25	24.538	
6,300.00	6,274.67	6,288.18	6,260.12	22.65	22.46	91.538	-478.79	1,338.87	1,082.16	1,037.17	44.99	24.052	
6,400.00	6,374.18	6,394.38	6,366.27	23.01	22.84	91.260	-482.06	1,339.89	1,078.05	1,032.32	45.73	23.572	
6,456.91	6,430.81	6,454.70	6,426.57	23.22	23.05	91.055	-483.09	1,340.21	1,075.47	1,029.31	46.16	23.301	
6,500.00	6,473.70	6,500.31	6,472.19	23.38	23.21	90.886	-483.45	1,340.32	1,073.48	1,027.00	46.47	23.099	
6,600.00	6,573.35	6,601.48	6,573.35	23.75	23.54	90.506	-483.51	1,340.34	1,069.28	1,022.11	47.17	22.667	
6,700.00	6,673.13	6,701.26	6,673.13	24.11	23.87	90.200	-483.51	1,340.34	1,065.98	1,018.12	47.86	22.271	
6,800.00	6,773.02	6,801.14	6,773.02	24.47	24.20	89.975	-483.51	1,340.34	1,063.57	1,015.02	48.55	21.905	
6,900.00	6,872.97	6,901.09	6,872.97	24.82	24.53	89.830	-483.51	1,340.34	1,062.04	1,012.80	49.24	21.568	
7,000.00	6,972.96	7,001.08	6,972.96	25.18	24.86	89.767	-483.51	1,340.34	1,061.38	1,011.45	49.93	21.259	
7,027.04	7,000.00	7,028.13	7,000.00	25.27	24.95	89.764	-483.51	1,340.34	1,061.35	1,011.24	50.11	21.182	
7,100.00	7,072.96	7,101.08	7,072.96	25.51	25.19	89.764	-483.51	1,340.34	1,061.35	1,010.76	50.58	20.982	
7,200.00	7,172.96	7,201.08	7,172.96	25.83	25.52	89.764	-483.51	1,340.34	1,061.35	1,010.11	51.24	20.713	
7,300.00	7,272.96	7,301.08	7,272.96	26.16	25.85	89.764	-483.51	1,340.34	1,061.35	1,009.45	51.90	20.451	
7,400.00	7,372.96	7,401.08	7,372.96	26.48	26.18	89.764	-483.51	1,340.34	1,061.35	1,008.79	52.56	20.195	
7,500.00	7,472.96	7,501.08	7,472.96	26.81	26.52	89.764	-483.51	1,340.34	1,061.35	1,008.13	53.22	19.944	
7,600.00	7,572.96	7,601.08	7,572.96	27.14	26.85	89.764	-483.51	1,340.34	1,061.35	1,007.47	53.88	19.699	
7,700.00	7,672.96	7,701.08	7,672.96	27.47	27.18	89.764	-483.51	1,340.34	1,061.35	1,006.81	54.54	19.460	
7,800.00	7,772.96	7,801.08	7,772.96	27.79	27.52	89.764	-483.51	1,340.34	1,061.35	1,006.14	55.21	19.225	
7,900.00	7,872.96	7,901.08	7,872.96	28.12	27.85	89.764	-483.51	1,340.34	1,061.35	1,005.48	55.87	18.996	
8,000.00	7,972.96	8,001.08	7,972.96	28.46	28.19	89.764	-483.51	1,340.34	1,061.35	1,004.81	56.54	18.772	
8,100.00	8,072.96	8,101.08	8,072.96	28.79	28.53	89.764	-483.51	1,340.34	1,061.35	1,004.14	57.21	18.553	
8,200.00	8,172.96	8,201.08	8,172.96	29.12	28.86	89.764	-483.51	1,340.34	1,061.35	1,003.47	57.88	18.338	
8,300.00	8,272.96	8,301.08	8,272.96	29.45	29.20	89.764	-483.51	1,340.34	1,061.35	1,002.80	58.55	18.128	
8,400.00	8,372.96	8,401.08	8,372.96	29.78	29.54	89.764	-483.51	1,340.34	1,061.35	1,002.13	59.22	17.923	
8,500.00	8,472.96	8,501.08	8,472.96	30.12	29.88	89.764	-483.51	1,340.34	1,061.35	1,001.46	59.89	17.721	
8,600.00	8,572.96	8,601.08	8,572.96	30.45	30.22	89.764	-483.51	1,340.34	1,061.35	1,000.78	60.56	17.524	
8,700.00	8,672.96	8,701.08	8,672.96	30.79	30.56	89.764	-483.51	1,340.34	1,061.35	1,000.11	61.24	17.331	
8,800.00	8,772.96	8,801.08	8,772.96	31.12	30.90	89.764	-483.51	1,340.34	1,061.35	999.43	61.91	17.142	
8,900.00	8,872.96	8,901.08	8,872.96	31.46	31.24	89.764	-483.51	1,340.34	1,061.35	998.76	62.59	16.957	
9,000.00	8,972.96	9,001.08	8,972.96	31.80	31.58	89.764	-483.51	1,340.34	1,061.35	998.08	63.27	16.775	
9,100.00	9,072.96	9,101.08	9,072.96	32.13	31.92	89.764	-483.51	1,340.34	1,061.35	997.40	63.95	16.597	
9,162.83	9,135.78	9,163.91	9,135.78	32.34	32.14	89.764	-483.51	1,340.34	1,061.35	996.98	64.37	16.487	
9,196.08	9,169.04	9,196.83	9,168.70	32.46	32.25	89.764	-483.50	1,340.34	1,061.35	996.75	64.60	16.430	
9,200.00	9,172.96	9,200.00	9,171.87	32.47	32.26	89.763	-483.47	1,340.34	1,061.35	996.73	64.62	16.424	
9,250.00	9,222.88	9,245.63	9,217.44	32.64	32.41	89.772	-481.15	1,340.46	1,061.13	996.18	64.95	16.338	
9,300.00	9,272.39	9,290.90	9,262.31	32.80	32.56	89.822	-475.28	1,340.77	1,060.52	995.25	65.27	16.249	
9,350.00	9,321.11	9,336.20	9,306.60	32.96	32.71	89.911	-465.88	1,341.26	1,059.50	993.93	65.58	16.157	

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference 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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
9,400.00	9,368.68	9,381.55	9,350.07	33.12	32.85	90.037	-453.01	1,341.94	1,058.11	992.23	65.88	16.062			
9,450.00	9,414.73	9,426.97	9,392.45	33.26	32.99	90.197	-436.71	1,342.79	1,056.33	990.17	66.16	15.966			
9,500.00	9,458.90	9,472.50	9,433.49	33.40	33.12	90.388	-417.06	1,343.82	1,054.20	987.76	66.44	15.867			
9,550.00	9,500.88	9,518.15	9,472.95	33.53	33.25	90.606	-394.15	1,345.02	1,051.72	985.02	66.70	15.768			
9,600.00	9,540.32	9,563.95	9,510.57	33.65	33.37	90.845	-368.09	1,346.39	1,048.92	981.97	66.95	15.668			
9,650.00	9,576.94	9,609.93	9,546.12	33.77	33.48	91.099	-339.00	1,347.91	1,045.82	978.63	67.18	15.567			
9,700.00	9,610.46	9,656.10	9,579.37	33.87	33.59	91.363	-307.01	1,349.59	1,042.45	975.04	67.40	15.466			
9,750.00	9,640.61	9,702.51	9,610.06	33.96	33.69	91.629	-272.28	1,351.41	1,038.83	971.22	67.61	15.365			
9,800.00	9,667.18	9,750.00	9,638.46	34.05	33.79	91.853	-234.28	1,353.40	1,035.00	967.20	67.80	15.265			
9,850.00	9,689.96	9,796.11	9,662.93	34.13	33.88	92.141	-195.27	1,355.45	1,030.98	963.01	67.97	15.167			
9,900.00	9,708.77	9,843.35	9,684.66	34.20	33.96	92.372	-153.38	1,357.64	1,026.82	958.69	68.13	15.071			
9,950.00	9,723.48	9,890.94	9,702.97	34.27	34.03	92.576	-109.54	1,359.94	1,022.55	954.27	68.28	14.977			
10,000.00	9,733.96	9,938.89	9,717.68	34.32	34.10	92.746	-63.98	1,362.33	1,018.20	949.79	68.40	14.885			
10,050.00	9,740.15	9,987.22	9,728.60	34.37	34.16	92.877	-16.97	1,364.79	1,013.80	945.29	68.51	14.797			
10,096.08	9,742.00	10,032.14	9,735.15	34.41	34.20	92.958	27.39	1,367.12	1,009.74	941.15	68.60	14.720			
10,100.00	9,742.00	10,035.98	9,735.55	34.41	34.21	92.963	31.20	1,367.32	1,009.40	940.80	68.60	14.713			
10,200.00	9,742.00	10,159.20	9,738.80	34.50	34.32	91.627	154.19	1,372.94	1,002.01	933.19	68.82	14.560			
10,300.00	9,742.00	10,293.38	9,739.50	34.62	34.47	89.649	288.36	1,373.83	993.94	924.85	69.09	14.386			
10,400.00	9,742.00	10,393.21	9,740.02	34.75	34.61	89.649	388.19	1,373.22	988.23	918.86	69.36	14.247			
10,500.00	9,742.00	10,493.18	9,740.55	34.91	34.77	89.649	488.16	1,372.60	986.01	916.33	69.68	14.150			
10,511.62	9,742.00	10,504.80	9,740.61	34.93	34.79	89.649	499.77	1,372.53	985.98	916.25	69.72	14.142			
10,600.00	9,742.00	10,593.18	9,741.07	35.09	34.95	89.649	588.15	1,371.99	985.91	915.87	70.04	14.077			
10,700.00	9,742.00	10,693.18	9,741.60	35.29	35.15	89.650	688.15	1,371.38	985.84	915.41	70.44	13.996			
10,800.00	9,742.00	10,793.18	9,742.12	35.51	35.37	89.650	788.14	1,370.77	985.77	914.90	70.88	13.908			
10,900.00	9,742.00	10,893.18	9,742.64	35.75	35.61	89.650	888.14	1,370.16	985.71	914.35	71.36	13.814			
11,000.00	9,742.00	10,993.18	9,743.17	36.00	35.88	89.650	988.13	1,369.55	985.64	913.76	71.87	13.714			
11,100.00	9,742.00	11,093.17	9,743.69	36.28	36.15	89.650	1,088.13	1,368.94	985.57	913.14	72.43	13.607			
11,200.00	9,742.00	11,193.17	9,744.21	36.58	36.45	89.650	1,188.12	1,368.32	985.50	912.48	73.02	13.496			
11,300.00	9,742.00	11,293.17	9,744.74	36.89	36.77	89.650	1,288.12	1,367.71	985.43	911.78	73.65	13.380			
11,400.00	9,742.00	11,393.17	9,745.26	37.22	37.10	89.651	1,388.11	1,367.10	985.36	911.05	74.31	13.260			
11,500.00	9,742.00	11,493.17	9,745.78	37.57	37.45	89.651	1,488.11	1,366.49	985.30	910.29	75.01	13.136			
11,600.00	9,742.00	11,593.17	9,746.31	37.93	37.82	89.651	1,588.11	1,365.88	985.23	909.49	75.74	13.008			
11,700.00	9,742.00	11,693.17	9,746.83	38.31	38.20	89.651	1,688.10	1,365.27	985.16	908.66	76.50	12.878			
11,800.00	9,742.00	11,793.17	9,747.35	38.71	38.60	89.651	1,788.10	1,364.66	985.10	907.80	77.30	12.745			
11,900.00	9,742.00	11,893.16	9,747.88	39.12	39.02	89.651	1,888.09	1,364.04	985.03	906.91	78.12	12.609			
12,000.00	9,742.00	11,993.16	9,748.40	39.55	39.45	89.652	1,988.09	1,363.43	984.97	905.99	78.97	12.472			
12,100.00	9,742.00	12,093.16	9,748.93	39.99	39.89	89.652	2,088.08	1,362.82	984.90	905.04	79.86	12.333			
12,200.00	9,742.00	12,193.16	9,749.45	40.44	40.35	89.652	2,188.08	1,362.21	984.83	904.07	80.77	12.194			
12,300.00	9,742.00	12,293.16	9,749.97	40.91	40.82	89.652	2,288.07	1,361.60	984.77	903.07	81.70	12.053			
12,400.00	9,742.00	12,393.16	9,750.50	41.39	41.30	89.652	2,388.07	1,360.99	984.70	902.04	82.66	11.912			
12,500.00	9,742.00	12,493.16	9,751.02	41.88	41.79	89.652	2,488.06	1,360.38	984.64	900.99	83.65	11.771			
12,600.00	9,742.00	12,593.15	9,751.54	42.39	42.30	89.653	2,588.06	1,359.76	984.58	899.91	84.66	11.629			
12,700.00	9,742.00	12,693.15	9,752.07	42.91	42.82	89.653	2,688.05	1,359.15	984.51	898.82	85.70	11.488			
12,800.00	9,742.00	12,793.15	9,752.59	43.43	43.35	89.653	2,788.05	1,358.54	984.45	897.70	86.75	11.348			
12,900.00	9,742.00	12,893.15	9,753.11	43.97	43.89	89.653	2,888.04	1,357.93	984.38	896.55	87.83	11.208			
13,000.00	9,742.00	12,993.15	9,753.64	44.52	44.44	89.653	2,988.04	1,357.32	984.32	895.39	88.93	11.069			
13,100.00	9,742.00	13,093.15	9,754.16	45.08	45.00	89.653	3,088.04	1,356.71	984.26	894.21	90.05	10.931			
13,200.00	9,742.00	13,193.15	9,754.68	45.65	45.57	89.654	3,188.03	1,356.10	984.20	893.01	91.18	10.794			
13,300.00	9,742.00	13,293.14	9,755.21	46.23	46.15	89.654	3,288.03	1,355.48	984.13	891.79	92.34	10.658			
13,400.00	9,742.00	13,393.14	9,755.73	46.81	46.74	89.654	3,388.02	1,354.87	984.07	890.56	93.51	10.523			
13,500.00	9,742.00	13,493.14	9,756.26	47.41	47.34	89.654	3,488.02	1,354.26	984.01	889.31	94.70	10.390			

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference 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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
13,600.00	9,742.00	13,593.14	9,756.78	48.01	47.94	89.654	3,588.01	1,353.65	983.95	888.04	95.91	10.259			
13,700.00	9,742.00	13,693.14	9,757.30	48.62	48.56	89.654	3,688.01	1,353.04	983.89	886.75	97.13	10.129			
13,800.00	9,742.00	13,793.14	9,757.83	49.24	49.18	89.654	3,788.00	1,352.43	983.83	885.45	98.37	10.001			
13,900.00	9,742.00	13,893.14	9,758.35	49.87	49.80	89.655	3,888.00	1,351.82	983.77	884.14	99.63	9.875			
14,000.00	9,742.00	13,993.13	9,758.87	50.50	50.44	89.655	3,987.99	1,351.20	983.71	882.81	100.89	9.750			
14,100.00	9,742.00	14,093.13	9,759.40	51.14	51.08	89.655	4,087.99	1,350.59	983.65	881.47	102.17	9.627			
14,200.00	9,742.00	14,193.13	9,759.92	51.79	51.73	89.655	4,187.98	1,349.98	983.59	880.12	103.47	9.506			
14,300.00	9,742.00	14,293.13	9,760.44	52.44	52.39	89.655	4,287.98	1,349.37	983.53	878.75	104.77	9.387			
14,400.00	9,742.00	14,393.13	9,760.97	53.10	53.05	89.655	4,387.98	1,348.76	983.47	877.37	106.09	9.270			
14,500.00	9,742.00	14,493.13	9,761.49	53.77	53.71	89.656	4,487.97	1,348.15	983.41	875.98	107.42	9.155			
14,600.00	9,742.00	14,593.13	9,762.01	54.44	54.39	89.656	4,587.97	1,347.54	983.35	874.58	108.76	9.041			
14,700.00	9,742.00	14,693.12	9,762.54	55.12	55.06	89.656	4,687.96	1,346.92	983.29	873.17	110.12	8.930			
14,800.00	9,742.00	14,793.12	9,763.06	55.80	55.75	89.656	4,787.96	1,346.31	983.23	871.75	111.48	8.820			
14,900.00	9,742.00	14,893.12	9,763.59	56.49	56.43	89.656	4,887.95	1,345.70	983.17	870.32	112.85	8.712			
15,000.00	9,742.00	14,993.12	9,764.11	57.18	57.13	89.656	4,987.95	1,345.09	983.12	868.88	114.24	8.606			
15,100.00	9,742.00	15,093.12	9,764.63	57.88	57.82	89.657	5,087.94	1,344.48	983.06	867.43	115.63	8.502			
15,200.00	9,742.00	15,193.12	9,765.16	58.58	58.53	89.657	5,187.94	1,343.87	983.00	865.97	117.03	8.400			
15,300.00	9,742.00	15,293.12	9,765.68	59.28	59.23	89.657	5,287.93	1,343.26	982.95	864.51	118.44	8.299			
15,400.00	9,742.00	15,393.11	9,766.20	59.99	59.94	89.657	5,387.93	1,342.64	982.89	863.03	119.86	8.201			
15,500.00	9,742.00	15,493.11	9,766.73	60.71	60.66	89.657	5,487.92	1,342.03	982.83	861.55	121.28	8.104			
15,600.00	9,742.00	15,593.11	9,767.25	61.42	61.38	89.657	5,587.92	1,341.42	982.78	860.06	122.72	8.008			
15,700.00	9,742.00	15,693.11	9,767.77	62.15	62.10	89.658	5,687.92	1,340.81	982.72	858.56	124.16	7.915			
15,800.00	9,742.00	15,793.11	9,768.30	62.87	62.83	89.658	5,787.91	1,340.20	982.67	857.06	125.61	7.823			
15,900.00	9,742.00	15,893.11	9,768.82	63.60	63.56	89.658	5,887.91	1,339.59	982.61	855.55	127.06	7.733			
16,000.00	9,742.00	15,993.11	9,769.34	64.33	64.29	89.658	5,987.90	1,338.98	982.56	854.03	128.53	7.645			
16,100.00	9,742.00	16,093.11	9,769.87	65.07	65.02	89.658	6,087.90	1,338.36	982.50	852.51	130.00	7.558			
16,200.00	9,742.00	16,193.10	9,770.39	65.81	65.76	89.658	6,187.89	1,337.75	982.45	850.98	131.47	7.473			
16,300.00	9,742.00	16,293.10	9,770.91	66.55	66.51	89.658	6,287.89	1,337.14	982.39	849.44	132.95	7.389			
16,400.00	9,742.00	16,393.10	9,771.44	67.29	67.25	89.659	6,387.88	1,336.53	982.34	847.90	134.44	7.307			
16,500.00	9,742.00	16,493.10	9,771.96	68.04	68.00	89.659	6,487.88	1,335.92	982.29	846.35	135.93	7.226			
16,600.00	9,742.00	16,593.10	9,772.49	68.79	68.75	89.659	6,587.87	1,335.31	982.23	844.80	137.43	7.147			
16,700.00	9,742.00	16,693.10	9,773.01	69.54	69.51	89.659	6,687.87	1,334.70	982.18	843.25	138.94	7.069			
16,800.00	9,742.00	16,793.10	9,773.53	70.30	70.26	89.659	6,787.86	1,334.08	982.13	841.68	140.44	6.993			
16,900.00	9,742.00	16,893.09	9,774.06	71.06	71.02	89.659	6,887.86	1,333.47	982.08	840.12	141.96	6.918			
17,000.00	9,742.00	16,993.09	9,774.58	71.82	71.78	89.660	6,987.85	1,332.86	982.03	838.55	143.48	6.844			
17,100.00	9,742.00	17,093.09	9,775.10	72.58	72.55	89.660	7,087.85	1,332.25	981.97	836.97	145.00	6.772			
17,200.00	9,742.00	17,193.09	9,775.63	73.35	73.31	89.660	7,187.85	1,331.64	981.92	835.39	146.53	6.701			
17,300.00	9,742.00	17,293.09	9,776.15	74.12	74.08	89.660	7,287.84	1,331.03	981.87	833.81	148.06	6.631			
17,400.00	9,742.00	17,393.09	9,776.67	74.89	74.85	89.660	7,387.84	1,330.42	981.82	832.22	149.60	6.563			
17,500.00	9,742.00	17,493.09	9,777.20	75.66	75.62	89.660	7,487.83	1,329.80	981.77	830.63	151.14	6.496			
17,600.00	9,742.00	17,593.08	9,777.72	76.43	76.40	89.661	7,587.83	1,329.19	981.72	829.03	152.68	6.430			
17,700.00	9,742.00	17,693.08	9,778.24	77.21	77.17	89.661	7,687.82	1,328.58	981.67	827.44	154.23	6.365			
17,800.00	9,742.00	17,793.08	9,778.77	77.99	77.95	89.661	7,787.82	1,327.97	981.62	825.83	155.79	6.301			
17,900.00	9,742.00	17,893.08	9,779.29	78.77	78.73	89.661	7,887.81	1,327.36	981.57	824.23	157.34	6.238			
18,000.00	9,742.00	17,993.08	9,779.82	79.55	79.51	89.661	7,987.81	1,326.75	981.52	822.62	158.90	6.177			
18,100.00	9,742.00	18,093.08	9,780.34	80.33	80.30	89.661	8,087.80	1,326.14	981.47	821.01	160.46	6.116			
18,200.00	9,742.00	18,193.08	9,780.86	81.12	81.08	89.662	8,187.80	1,325.52	981.42	819.39	162.03	6.057			
18,300.00	9,742.00	18,293.07	9,781.39	81.90	81.87	89.662	8,287.79	1,324.91	981.38	817.78	163.60	5.999			
18,400.00	9,742.00	18,393.07	9,781.91	82.69	82.66	89.662	8,387.79	1,324.30	981.33	816.15	165.17	5.941			
18,500.00	9,742.00	18,493.07	9,782.43	83.48	83.45	89.662	8,487.79	1,323.69	981.28	814.53	166.75	5.885			

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference 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	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
18,600.00	9,742.00	18,593.07	9,782.96	84.27	84.24	89.662	8,587.78	1,323.08	981.23	812.91	168.33	5.829		
18,700.00	9,742.00	18,693.07	9,783.48	85.07	85.03	89.662	8,687.78	1,322.47	981.19	811.28	169.91	5.775		
18,800.00	9,742.00	18,793.07	9,784.00	85.86	85.83	89.663	8,787.77	1,321.86	981.14	809.65	171.49	5.721		
18,900.00	9,742.00	18,893.07	9,784.53	86.66	86.62	89.663	8,887.77	1,321.24	981.09	808.01	173.08	5.668		
19,000.00	9,742.00	18,993.06	9,785.05	87.46	87.42	89.663	8,987.76	1,320.63	981.05	806.38	174.67	5.617		
19,100.00	9,742.00	19,093.06	9,785.57	88.25	88.22	89.663	9,087.76	1,320.02	981.00	804.74	176.26	5.566		
19,200.00	9,742.00	19,193.06	9,786.10	89.05	89.02	89.663	9,187.75	1,319.41	980.95	803.10	177.86	5.515		
19,300.00	9,742.00	19,293.06	9,786.62	89.85	89.82	89.663	9,287.75	1,318.80	980.91	801.46	179.45	5.466		
19,400.00	9,742.00	19,393.06	9,787.15	90.66	90.62	89.663	9,387.74	1,318.19	980.86	799.81	181.05	5.418		
19,500.00	9,742.00	19,493.06	9,787.67	91.46	91.43	89.664	9,487.74	1,317.58	980.82	798.17	182.65	5.370		
19,600.00	9,742.00	19,593.06	9,788.19	92.26	92.23	89.664	9,587.73	1,316.96	980.77	796.52	184.26	5.323		
19,700.00	9,742.00	19,693.06	9,788.72	93.07	93.04	89.664	9,687.73	1,316.35	980.73	794.87	185.86	5.277		
19,800.00	9,742.00	19,793.05	9,789.24	93.88	93.84	89.664	9,787.73	1,315.74	980.69	793.22	187.47	5.231		
19,900.00	9,742.00	19,893.05	9,789.76	94.69	94.65	89.664	9,887.72	1,315.13	980.64	791.56	189.08	5.186		
20,000.00	9,742.00	19,993.05	9,790.29	95.49	95.46	89.664	9,987.72	1,314.52	980.60	789.91	190.69	5.142		
20,032.45	9,742.00	20,025.50	9,790.46	95.76	95.72	89.665	10,020.16	1,314.32	980.58	789.37	191.21	5.128	CC, ES, SF	

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

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

Survey Program: 0-MWD+IFR1+SAG+FDIR		Offset		Semi Major Axis		Azimuth from North (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	2.00	0.00	0.00	0.01	90.000	0.00	1,294.34	1,294.34				
100.00	100.00	102.00	100.00	0.26	0.27	90.000	0.00	1,294.34	1,294.34	1,293.81	0.53	2,423.299	
200.00	200.00	202.00	200.00	0.62	0.63	90.000	0.00	1,294.34	1,294.34	1,293.09	1.25	1,034.590	
300.00	300.00	302.00	300.00	0.98	0.99	90.000	0.00	1,294.34	1,294.34	1,292.37	1.97	657.690	
400.00	400.00	402.00	400.00	1.34	1.35	90.000	0.00	1,294.34	1,294.34	1,291.66	2.68	482.072	
500.00	500.00	502.00	500.00	1.70	1.70	90.000	0.00	1,294.34	1,294.34	1,290.94	3.40	380.476	
600.00	600.00	602.00	600.00	2.06	2.06	90.000	0.00	1,294.34	1,294.34	1,290.22	4.12	314.249	
700.00	700.00	702.00	700.00	2.41	2.42	90.000	0.00	1,294.34	1,294.34	1,289.50	4.84	267.659	
800.00	800.00	802.00	800.00	2.77	2.78	90.000	0.00	1,294.34	1,294.34	1,288.79	5.55	233.100	
900.00	899.99	901.99	899.99	3.11	3.14	89.966	0.00	1,294.34	1,293.91	1,287.65	6.25	206.923	
1,000.00	999.96	1,001.96	999.96	3.45	3.50	89.866	0.00	1,294.34	1,292.61	1,285.67	6.94	186.208	
1,100.00	1,099.86	1,101.86	1,099.86	3.78	3.85	89.697	0.00	1,294.34	1,290.46	1,282.82	7.64	169.009	
1,200.00	1,199.68	1,200.00	1,198.00	4.12	4.21	89.461	0.00	1,294.34	1,287.47	1,279.14	8.33	154.616	
1,300.00	1,299.37	1,284.35	1,282.35	4.47	4.50	89.167	-0.26	1,294.90	1,284.33	1,275.37	8.96	143.323	
1,370.13	1,369.19	1,342.55	1,340.54	4.71	4.70	88.934	-0.75	1,295.95	1,282.42	1,273.02	9.40	136.434	
1,400.00	1,398.91	1,367.35	1,365.32	4.81	4.78	88.831	-1.03	1,296.55	1,281.72	1,272.13	9.59	133.709	
1,500.00	1,498.42	1,450.43	1,448.35	5.16	5.06	88.500	-2.31	1,299.30	1,280.24	1,270.03	10.21	125.362	
1,559.82	1,557.94	1,500.00	1,497.86	5.37	5.23	88.313	-3.32	1,301.46	1,280.00	1,269.41	10.59	120.892 CC	
1,600.00	1,597.92	1,533.61	1,531.42	5.51	5.34	88.193	-4.11	1,303.14	1,280.10	1,269.26	10.84	118.068 ES	
1,700.00	1,697.43	1,616.85	1,614.48	5.87	5.63	87.910	-6.41	1,308.07	1,281.28	1,269.80	11.47	111.667	
1,800.00	1,796.93	1,700.00	1,697.37	6.22	5.92	87.651	-9.22	1,314.10	1,283.77	1,271.66	12.11	106.036	
1,900.00	1,896.44	1,783.35	1,780.34	6.58	6.21	87.419	-12.55	1,321.23	1,287.57	1,274.83	12.74	101.055	
2,000.00	1,995.94	1,866.54	1,863.04	6.94	6.50	87.212	-16.38	1,329.43	1,292.67	1,279.30	13.38	96.644	
2,100.00	2,095.45	1,949.65	1,945.51	7.30	6.79	87.031	-20.71	1,338.72	1,299.07	1,285.06	14.01	92.729	
2,200.00	2,194.95	2,032.64	2,027.71	7.66	7.08	86.876	-25.54	1,349.07	1,306.74	1,292.10	14.64	89.248	
2,300.00	2,294.46	2,115.47	2,109.58	8.02	7.38	86.747	-30.87	1,360.47	1,315.70	1,300.43	15.27	86.148	
2,400.00	2,393.97	2,200.00	2,192.93	8.38	7.68	86.649	-36.82	1,373.22	1,325.93	1,310.02	15.91	83.336	
2,500.00	2,493.47	2,280.54	2,272.15	8.74	7.97	86.563	-42.97	1,386.39	1,337.42	1,320.89	16.53	80.917	
2,600.00	2,592.98	2,370.07	2,359.99	9.11	8.30	86.535	-50.29	1,402.08	1,350.05	1,332.86	17.19	78.541	
2,700.00	2,692.48	2,469.25	2,457.25	9.47	8.66	86.549	-58.49	1,419.65	1,362.89	1,344.99	17.90	76.139	
2,800.00	2,791.99	2,568.42	2,554.51	9.83	9.02	86.564	-66.69	1,437.22	1,375.72	1,357.11	18.61	73.913	
2,900.00	2,891.49	2,667.59	2,651.76	10.20	9.39	86.578	-74.89	1,454.79	1,388.56	1,369.23	19.33	71.847	
3,000.00	2,991.00	2,766.76	2,749.02	10.56	9.75	86.591	-83.09	1,472.36	1,401.40	1,381.36	20.04	69.922	
3,100.00	3,090.50	2,865.93	2,846.28	10.92	10.12	86.605	-91.29	1,489.92	1,414.24	1,393.48	20.76	68.126	
3,200.00	3,190.01	2,965.11	2,943.54	11.29	10.49	86.618	-99.49	1,507.49	1,427.07	1,405.60	21.48	66.447	
3,300.00	3,289.51	3,064.28	3,040.80	11.65	10.86	86.631	-107.69	1,525.06	1,439.91	1,417.71	22.20	64.873	
3,400.00	3,389.02	3,163.45	3,138.06	12.02	11.24	86.644	-115.89	1,542.63	1,452.75	1,429.83	22.92	63.395	
3,500.00	3,488.52	3,262.62	3,235.32	12.38	11.61	86.657	-124.09	1,560.20	1,465.59	1,441.95	23.64	62.006	
3,600.00	3,588.03	3,361.79	3,332.57	12.75	11.98	86.669	-132.29	1,577.76	1,478.42	1,454.07	24.36	60.696	
3,700.00	3,687.53	3,460.97	3,429.83	13.11	12.36	86.681	-140.49	1,595.33	1,491.26	1,466.18	25.08	59.461	
3,800.00	3,787.04	3,560.14	3,527.09	13.48	12.73	86.693	-148.69	1,612.90	1,504.10	1,478.30	25.80	58.293	
3,900.00	3,886.55	3,659.31	3,624.35	13.85	13.11	86.705	-156.89	1,630.47	1,516.94	1,490.41	26.53	57.187	
4,000.00	3,986.05	3,758.48	3,721.61	14.21	13.48	86.716	-165.09	1,648.04	1,529.77	1,502.53	27.25	56.139	
4,100.00	4,085.56	3,857.65	3,818.87	14.58	13.86	86.728	-173.29	1,665.60	1,542.61	1,514.64	27.97	55.145	
4,200.00	4,185.06	3,956.83	3,916.13	14.94	14.23	86.739	-181.49	1,683.17	1,555.45	1,526.75	28.70	54.199	
4,300.00	4,284.57	4,056.00	4,013.38	15.31	14.61	86.750	-189.69	1,700.74	1,568.29	1,538.87	29.42	53.300	
4,400.00	4,384.07	4,155.17	4,110.64	15.68	14.99	86.761	-197.89	1,718.31	1,581.13	1,550.98	30.15	52.443	
4,500.00	4,483.58	4,254.34	4,207.90	16.04	15.37	86.771	-206.09	1,735.88	1,593.97	1,563.09	30.88	51.626	
4,600.00	4,583.08	4,353.51	4,305.16	16.41	15.75	86.782	-214.29	1,753.44	1,606.80	1,575.20	31.60	50.845	
4,700.00	4,682.59	4,452.69	4,402.42	16.78	16.13	86.792	-222.49	1,771.01	1,619.64	1,587.31	32.33	50.100	
4,800.00	4,782.09	4,551.86	4,499.68	17.14	16.50	86.802	-230.69	1,788.58	1,632.48	1,599.43	33.06	49.386	

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference 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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
4,900.00	4,881.60	4,651.03	4,596.93	17.51	16.88	86.812	-238.89	1,806.15	1,645.32	1,611.54	33.78	48.703			
5,000.00	4,981.10	4,750.20	4,694.19	17.88	17.26	86.822	-247.09	1,823.72	1,658.16	1,623.65	34.51	48.049			
5,100.00	5,080.61	4,849.37	4,791.45	18.24	17.64	86.831	-255.29	1,841.28	1,671.00	1,635.76	35.24	47.421			
5,200.00	5,180.11	4,948.55	4,888.71	18.61	18.02	86.841	-263.49	1,858.85	1,683.83	1,647.87	35.97	46.818			
5,300.00	5,279.62	5,047.72	4,985.97	18.98	18.40	86.850	-271.69	1,876.42	1,696.67	1,659.98	36.69	46.239			
5,400.00	5,379.12	5,146.89	5,083.23	19.34	18.78	86.860	-279.89	1,893.99	1,709.51	1,672.09	37.42	45.682			
5,500.00	5,478.63	5,246.06	5,180.49	19.71	19.16	86.869	-288.09	1,911.56	1,722.35	1,684.20	38.15	45.146			
5,600.00	5,578.14	5,345.23	5,277.74	20.08	19.55	86.878	-296.29	1,929.12	1,735.19	1,696.31	38.88	44.630			
5,700.00	5,677.64	5,444.41	5,375.00	20.44	19.93	86.886	-304.49	1,946.69	1,748.03	1,708.42	39.61	44.133			
5,800.00	5,777.15	5,543.58	5,472.26	20.81	20.31	86.895	-312.69	1,964.26	1,760.87	1,720.53	40.34	43.654			
5,900.00	5,876.65	5,642.75	5,569.52	21.18	20.69	86.904	-320.89	1,981.83	1,773.71	1,732.64	41.07	43.191			
6,000.00	5,976.16	5,741.92	5,666.78	21.54	21.07	86.912	-329.09	1,999.40	1,786.54	1,744.75	41.80	42.745			
6,100.00	6,075.66	5,841.09	5,764.04	21.91	21.45	86.920	-337.29	2,016.96	1,799.38	1,756.86	42.53	42.314			
6,200.00	6,175.17	5,940.27	5,861.30	22.28	21.83	86.929	-345.49	2,034.53	1,812.22	1,768.97	43.25	41.897			
6,300.00	6,274.67	6,039.44	5,958.55	22.65	22.22	86.937	-353.69	2,052.10	1,825.06	1,781.08	43.98	41.493			
6,400.00	6,374.18	6,138.61	6,055.81	23.01	22.60	86.945	-361.89	2,069.67	1,837.90	1,793.19	44.71	41.103			
6,456.91	6,430.81	6,195.05	6,111.16	23.22	22.82	86.949	-366.56	2,079.67	1,845.21	1,800.08	45.13	40.887			
6,500.00	6,473.70	6,237.77	6,153.06	23.38	22.98	86.957	-370.09	2,087.23	1,850.81	1,805.37	45.44	40.727			
6,600.00	6,573.35	6,336.83	6,250.21	23.75	23.36	87.010	-378.28	2,104.78	1,864.40	1,818.23	46.17	40.380			
6,700.00	6,673.13	6,435.74	6,347.21	24.11	23.74	87.109	-386.46	2,122.30	1,878.78	1,831.88	46.89	40.065			
6,800.00	6,773.02	6,534.46	6,444.03	24.47	24.12	87.254	-394.62	2,139.79	1,893.96	1,846.35	47.61	39.779			
6,900.00	6,872.97	6,632.98	6,540.64	24.82	24.50	87.444	-402.77	2,157.24	1,909.95	1,861.62	48.33	39.522			
7,000.00	6,972.96	6,731.26	6,637.02	25.18	24.88	87.676	-410.89	2,174.65	1,926.76	1,877.72	49.04	39.293			
7,027.04	7,000.00	6,757.79	6,663.04	25.27	24.98	87.746	-413.09	2,179.35	1,931.44	1,882.22	49.22	39.239			
7,100.00	7,072.96	6,829.34	6,733.21	25.51	25.26	87.938	-419.00	2,192.03	1,944.18	1,894.47	49.72	39.105			
7,200.00	7,172.96	6,927.41	6,829.39	25.83	25.64	88.197	-427.11	2,209.40	1,961.68	1,911.28	50.39	38.927			
7,300.00	7,272.96	7,047.32	6,947.07	26.16	26.10	88.502	-436.85	2,230.26	1,978.94	1,927.75	51.19	38.658			
7,400.00	7,372.96	7,190.44	7,088.08	26.48	26.65	88.819	-447.21	2,252.45	1,994.32	1,942.22	52.10	38.279			
7,500.00	7,472.96	7,334.72	7,230.80	26.81	27.19	89.087	-456.14	2,271.59	2,007.50	1,954.51	52.99	37.884			
7,600.00	7,572.96	7,479.99	7,375.00	27.14	27.72	89.307	-463.59	2,287.56	2,018.43	1,964.57	53.86	37.473			
7,700.00	7,672.96	7,626.07	7,520.40	27.47	28.25	89.480	-469.53	2,300.27	2,027.10	1,972.39	54.72	37.047			
7,800.00	7,772.96	7,772.78	7,666.73	27.79	28.77	89.606	-473.91	2,309.66	2,033.48	1,977.93	55.55	36.608			
7,900.00	7,872.96	7,919.92	7,813.72	28.12	29.29	89.686	-476.71	2,315.65	2,037.55	1,981.19	56.35	36.156			
8,000.00	7,972.96	8,067.31	7,961.07	28.46	29.79	89.720	-477.91	2,318.23	2,039.29	1,982.16	57.13	35.697			
8,100.00	8,072.96	8,179.19	8,072.96	28.79	30.16	89.721	-477.96	2,318.34	2,039.36	1,981.55	57.81	35.276			
8,200.00	8,172.96	8,279.19	8,172.96	29.12	30.48	89.721	-477.96	2,318.34	2,039.36	1,980.89	58.47	34.877			
8,300.00	8,272.96	8,379.19	8,272.96	29.45	30.81	89.721	-477.96	2,318.34	2,039.36	1,980.23	59.14	34.485			
8,400.00	8,372.96	8,479.19	8,372.96	29.78	31.14	89.721	-477.96	2,318.34	2,039.36	1,979.56	59.80	34.102			
8,500.00	8,472.96	8,579.19	8,472.96	30.12	31.46	89.721	-477.96	2,318.34	2,039.36	1,978.90	60.47	33.727			
8,600.00	8,572.96	8,679.19	8,572.96	30.45	31.79	89.721	-477.96	2,318.34	2,039.36	1,978.23	61.13	33.359			
8,700.00	8,672.96	8,779.19	8,672.96	30.79	32.12	89.721	-477.96	2,318.34	2,039.36	1,977.56	61.80	32.999			
8,800.00	8,772.96	8,879.19	8,772.96	31.12	32.45	89.721	-477.96	2,318.34	2,039.36	1,976.89	62.47	32.645			
8,900.00	8,872.96	8,979.19	8,872.96	31.46	32.78	89.721	-477.96	2,318.34	2,039.36	1,976.22	63.14	32.299			
9,000.00	8,972.96	9,079.19	8,972.96	31.80	33.11	89.721	-477.96	2,318.34	2,039.36	1,975.55	63.81	31.959			
9,100.00	9,072.96	9,179.19	9,072.96	32.13	33.44	89.721	-477.96	2,318.34	2,039.36	1,974.88	64.48	31.626			
9,196.08	9,169.04	9,275.27	9,169.04	32.46	33.76	89.721	-477.96	2,318.34	2,039.36	1,974.23	65.13	31.312			
9,200.00	9,172.96	9,279.19	9,172.96	32.47	33.77	89.722	-477.96	2,318.34	2,039.36	1,974.21	65.16	31.300			
9,250.00	9,222.88	9,324.88	9,218.65	32.64	33.92	89.785	-477.73	2,318.36	2,039.02	1,973.54	65.48	31.138			
9,300.00	9,272.39	9,364.50	9,258.18	32.80	34.05	89.907	-475.25	2,318.53	2,038.27	1,972.48	65.79	30.981			
9,350.00	9,321.11	9,400.00	9,293.38	32.96	34.17	90.090	-470.72	2,318.85	2,037.18	1,971.09	66.08	30.827			

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference 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+HFR1+SAG+FDIR														Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
9,400.00	9,368.68	9,444.28	9,336.78	33.12	34.31	90.273	-462.04	2,319.45	2,035.73	1,969.35	66.38	30.667			
9,450.00	9,414.73	9,484.51	9,375.54	33.26	34.43	90.513	-451.27	2,320.21	2,033.96	1,967.30	66.66	30.512			
9,500.00	9,458.90	9,525.04	9,413.71	33.40	34.55	90.784	-437.71	2,321.16	2,031.89	1,964.96	66.93	30.360			
9,550.00	9,500.88	9,565.91	9,451.12	33.53	34.66	91.082	-421.34	2,322.30	2,029.54	1,962.36	67.18	30.210			
9,600.00	9,540.32	9,607.15	9,487.61	33.65	34.77	91.401	-402.17	2,323.64	2,026.92	1,959.50	67.42	30.064			
9,650.00	9,576.94	9,650.00	9,523.94	33.77	34.87	91.716	-379.53	2,325.22	2,024.08	1,956.43	67.65	29.920			
9,700.00	9,610.46	9,690.99	9,557.02	33.87	34.96	92.076	-355.40	2,326.91	2,021.04	1,953.18	67.86	29.783			
9,750.00	9,640.61	9,733.70	9,589.55	33.96	35.05	92.417	-327.82	2,328.84	2,017.83	1,949.77	68.06	29.649			
9,800.00	9,667.18	9,777.01	9,620.35	34.05	35.12	92.750	-297.45	2,330.96	2,014.48	1,946.24	68.24	29.521			
9,850.00	9,689.96	9,820.99	9,649.19	34.13	35.19	93.067	-264.33	2,333.28	2,011.04	1,942.63	68.41	29.398			
9,900.00	9,708.77	9,865.72	9,675.81	34.20	35.25	93.358	-228.49	2,335.79	2,007.52	1,938.97	68.56	29.283			
9,950.00	9,723.48	9,911.28	9,699.96	34.27	35.29	93.616	-189.97	2,338.48	2,003.98	1,935.29	68.69	29.174			
10,000.00	9,733.96	9,957.73	9,721.35	34.32	35.33	93.831	-148.85	2,341.35	2,000.43	1,931.63	68.81	29.073			
10,050.00	9,740.15	10,005.17	9,739.67	34.37	35.36	93.995	-105.21	2,344.41	1,996.92	1,928.02	68.91	28.981			
10,096.08	9,742.00	10,049.85	9,753.56	34.41	35.38	94.095	-62.86	2,347.37	1,993.75	1,924.77	68.98	28.903			
10,100.00	9,742.00	10,053.70	9,754.60	34.41	35.38	94.100	-59.16	2,347.63	1,993.49	1,924.50	68.99	28.897			
10,200.00	9,742.00	10,156.01	9,773.02	34.50	35.40	94.082	41.09	2,354.64	1,988.59	1,919.44	69.15	28.758			
10,300.00	9,742.00	10,378.53	9,776.35	34.62	35.40	90.549	263.25	2,364.95	1,985.42	1,915.91	69.51	28.563			
10,400.00	9,742.00	10,509.40	9,777.03	34.75	35.43	89.653	394.12	2,364.49	1,979.83	1,910.02	69.81	28.360			
10,500.00	9,742.00	10,609.37	9,777.55	34.91	35.48	89.653	494.08	2,363.88	1,977.62	1,907.51	70.11	28.207			
10,511.62	9,742.00	10,620.99	9,777.61	34.93	35.49	89.653	505.70	2,363.81	1,977.59	1,907.44	70.15	28.191			
10,600.00	9,742.00	10,709.37	9,778.08	35.09	35.57	89.653	594.08	2,363.26	1,977.53	1,907.08	70.45	28.069			
10,700.00	9,742.00	10,809.37	9,778.60	35.29	35.71	89.653	694.07	2,362.65	1,977.47	1,906.63	70.84	27.916			
10,800.00	9,742.00	10,909.36	9,779.12	35.51	35.88	89.654	794.07	2,362.04	1,977.41	1,906.15	71.26	27.750			
10,900.00	9,742.00	11,009.36	9,779.65	35.75	36.09	89.654	894.07	2,361.42	1,977.34	1,905.62	71.72	27.570			
11,000.00	9,742.00	11,109.36	9,780.17	36.00	36.32	89.654	994.06	2,360.81	1,977.28	1,905.06	72.22	27.378			
11,100.00	9,742.00	11,209.36	9,780.70	36.28	36.58	89.654	1,094.06	2,360.19	1,977.22	1,904.46	72.76	27.175			
11,200.00	9,742.00	11,309.36	9,781.22	36.58	36.86	89.654	1,194.05	2,359.58	1,977.16	1,903.82	73.33	26.961			
11,300.00	9,742.00	11,409.36	9,781.74	36.89	37.17	89.654	1,294.05	2,358.96	1,977.10	1,903.15	73.95	26.737			
11,400.00	9,742.00	11,509.36	9,782.27	37.22	37.48	89.654	1,394.04	2,358.35	1,977.03	1,902.44	74.59	26.504			
11,500.00	9,742.00	11,609.36	9,782.79	37.57	37.82	89.654	1,494.04	2,357.73	1,976.97	1,901.70	75.27	26.264			
11,600.00	9,742.00	11,709.35	9,783.31	37.93	38.17	89.654	1,594.03	2,357.12	1,976.91	1,900.92	75.99	26.016			
11,700.00	9,742.00	11,809.35	9,783.84	38.31	38.55	89.654	1,694.03	2,356.51	1,976.85	1,900.11	76.74	25.762			
11,800.00	9,742.00	11,909.35	9,784.36	38.71	38.93	89.654	1,794.02	2,355.89	1,976.79	1,899.27	77.51	25.502			
11,900.00	9,742.00	12,009.35	9,784.88	39.12	39.33	89.654	1,894.02	2,355.28	1,976.73	1,898.40	78.32	25.238			
12,000.00	9,742.00	12,109.35	9,785.41	39.55	39.75	89.654	1,994.01	2,354.66	1,976.67	1,897.51	79.16	24.970			
12,100.00	9,742.00	12,209.35	9,785.93	39.99	40.18	89.655	2,094.01	2,354.05	1,976.61	1,896.58	80.03	24.699			
12,200.00	9,742.00	12,309.35	9,786.45	40.44	40.62	89.655	2,194.00	2,353.43	1,976.55	1,895.62	80.92	24.425			
12,300.00	9,742.00	12,409.34	9,786.98	40.91	41.08	89.655	2,294.00	2,352.82	1,976.49	1,894.64	81.85	24.149			
12,400.00	9,742.00	12,509.34	9,787.50	41.39	41.55	89.655	2,394.00	2,352.20	1,976.43	1,893.63	82.79	23.872			
12,500.00	9,742.00	12,609.34	9,788.03	41.88	42.04	89.655	2,493.99	2,351.59	1,976.37	1,892.60	83.77	23.594			
12,600.00	9,742.00	12,709.34	9,788.55	42.39	42.53	89.655	2,593.99	2,350.97	1,976.31	1,891.54	84.76	23.315			
12,700.00	9,742.00	12,809.34	9,789.07	42.91	43.04	89.655	2,693.98	2,350.36	1,976.25	1,890.46	85.79	23.037			
12,800.00	9,742.00	12,909.34	9,789.60	43.43	43.56	89.655	2,793.98	2,349.75	1,976.19	1,889.36	86.83	22.760			
12,900.00	9,742.00	13,009.34	9,790.12	43.97	44.09	89.655	2,893.97	2,349.13	1,976.13	1,888.23	87.89	22.483			
13,000.00	9,742.00	13,109.33	9,790.64	44.52	44.63	89.655	2,993.97	2,348.52	1,976.07	1,887.09	88.98	22.208			
13,100.00	9,742.00	13,209.33	9,791.17	45.08	45.18	89.655	3,093.96	2,347.90	1,976.01	1,885.92	90.08	21.935			
13,200.00	9,742.00	13,309.33	9,791.69	45.65	45.74	89.655	3,193.96	2,347.29	1,975.95	1,884.74	91.21	21.664			
13,300.00	9,742.00	13,409.33	9,792.21	46.23	46.31	89.656	3,293.95	2,346.67	1,975.89	1,883.53	92.35	21.395			
13,400.00	9,742.00	13,509.33	9,792.74	46.81	46.89	89.656	3,393.95	2,346.06	1,975.83	1,882.31	93.52	21.128			
13,500.00	9,742.00	13,609.33	9,793.26	47.41	47.47	89.656	3,493.94	2,345.44	1,975.77	1,881.08	94.70	20.864			

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

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

Survey Program: 0-MWD+IFR1+SAG+FDIR		Offset		Semi Major Axis		Azimuth from North (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Ellipses (usft)				
13,600.00	9,742.00	13,709.33	9,793.78	48.01	48.07	89.656	3,593.94	2,344.83	1,975.71	1,879.82	95.89	20.603	
13,700.00	9,742.00	13,809.32	9,794.31	48.62	48.67	89.656	3,693.94	2,344.22	1,975.65	1,878.55	97.11	20.345	
13,800.00	9,742.00	13,909.32	9,794.83	49.24	49.28	89.656	3,793.93	2,343.60	1,975.60	1,877.26	98.33	20.091	
13,900.00	9,742.00	14,009.32	9,795.36	49.87	49.90	89.656	3,893.93	2,342.99	1,975.54	1,875.96	99.58	19.839	
14,000.00	9,742.00	14,109.32	9,795.88	50.50	50.53	89.656	3,993.92	2,342.37	1,975.48	1,874.65	100.83	19.591	
14,100.00	9,742.00	14,209.32	9,796.40	51.14	51.16	89.656	4,093.92	2,341.76	1,975.42	1,873.32	102.11	19.347	
14,200.00	9,742.00	14,309.32	9,796.93	51.79	51.80	89.656	4,193.91	2,341.14	1,975.36	1,871.97	103.39	19.106	
14,300.00	9,742.00	14,409.32	9,797.45	52.44	52.45	89.656	4,293.91	2,340.53	1,975.31	1,870.62	104.69	18.868	
14,400.00	9,742.00	14,509.31	9,797.97	53.10	53.10	89.656	4,393.90	2,339.91	1,975.25	1,869.25	106.00	18.635	
14,500.00	9,742.00	14,609.31	9,798.50	53.77	53.76	89.656	4,493.90	2,339.30	1,975.19	1,867.87	107.32	18.405	
14,600.00	9,742.00	14,709.31	9,799.02	54.44	54.43	89.657	4,593.89	2,338.69	1,975.14	1,866.48	108.65	18.178	
14,700.00	9,742.00	14,809.31	9,799.54	55.12	55.10	89.657	4,693.89	2,338.07	1,975.08	1,865.08	110.00	17.956	
14,800.00	9,742.00	14,909.31	9,800.07	55.80	55.77	89.657	4,793.88	2,337.46	1,975.02	1,863.67	111.35	17.737	
14,900.00	9,742.00	15,009.31	9,800.59	56.49	56.45	89.657	4,893.88	2,336.84	1,974.96	1,862.25	112.72	17.521	
15,000.00	9,742.00	15,109.31	9,801.11	57.18	57.14	89.657	4,993.87	2,336.23	1,974.91	1,860.81	114.09	17.310	
15,100.00	9,742.00	15,209.30	9,801.64	57.88	57.83	89.657	5,093.87	2,335.61	1,974.85	1,859.37	115.48	17.101	
15,200.00	9,742.00	15,309.30	9,802.16	58.58	58.52	89.657	5,193.87	2,335.00	1,974.80	1,857.92	116.87	16.897	
15,300.00	9,742.00	15,409.30	9,802.69	59.28	59.22	89.657	5,293.86	2,334.38	1,974.74	1,856.46	118.28	16.696	
15,400.00	9,742.00	15,509.30	9,803.21	59.99	59.93	89.657	5,393.86	2,333.77	1,974.68	1,855.00	119.69	16.499	
15,500.00	9,742.00	15,609.30	9,803.73	60.71	60.64	89.657	5,493.85	2,333.15	1,974.63	1,853.52	121.11	16.305	
15,600.00	9,742.00	15,709.30	9,804.26	61.42	61.35	89.657	5,593.85	2,332.54	1,974.57	1,852.04	122.54	16.114	
15,700.00	9,742.00	15,809.30	9,804.78	62.15	62.06	89.657	5,693.84	2,331.93	1,974.52	1,850.54	123.97	15.927	
15,800.00	9,742.00	15,909.30	9,805.30	62.87	62.78	89.658	5,793.84	2,331.31	1,974.46	1,849.05	125.41	15.744	
15,900.00	9,742.00	16,009.29	9,805.83	63.60	63.51	89.658	5,893.83	2,330.70	1,974.40	1,847.54	126.86	15.563	
16,000.00	9,742.00	16,109.29	9,806.35	64.33	64.24	89.658	5,993.83	2,330.08	1,974.35	1,846.03	128.32	15.386	
16,100.00	9,742.00	16,209.29	9,806.87	65.07	64.97	89.658	6,093.82	2,329.47	1,974.29	1,844.51	129.79	15.212	
16,200.00	9,742.00	16,309.29	9,807.40	65.81	65.70	89.658	6,193.82	2,328.85	1,974.24	1,842.98	131.26	15.041	
16,300.00	9,742.00	16,409.29	9,807.92	66.55	66.44	89.658	6,293.81	2,328.24	1,974.18	1,841.45	132.73	14.873	
16,400.00	9,742.00	16,509.29	9,808.44	67.29	67.18	89.658	6,393.81	2,327.62	1,974.13	1,839.92	134.21	14.709	
16,500.00	9,742.00	16,609.29	9,808.97	68.04	67.92	89.658	6,493.80	2,327.01	1,974.08	1,838.37	135.70	14.547	
16,600.00	9,742.00	16,709.28	9,809.49	68.79	68.67	89.658	6,593.80	2,326.40	1,974.02	1,836.82	137.20	14.388	
16,700.00	9,742.00	16,809.28	9,810.02	69.54	69.41	89.658	6,693.80	2,325.78	1,973.97	1,835.27	138.70	14.232	
16,800.00	9,742.00	16,909.28	9,810.54	70.30	70.17	89.658	6,793.79	2,325.17	1,973.91	1,833.71	140.20	14.079	
16,900.00	9,742.00	17,009.28	9,811.06	71.06	70.92	89.658	6,893.79	2,324.55	1,973.86	1,832.15	141.71	13.929	
17,000.00	9,742.00	17,109.28	9,811.59	71.82	71.68	89.658	6,993.78	2,323.94	1,973.80	1,830.58	143.23	13.781	
17,100.00	9,742.00	17,209.28	9,812.11	72.58	72.44	89.659	7,093.78	2,323.32	1,973.75	1,829.00	144.75	13.636	
17,200.00	9,742.00	17,309.28	9,812.63	73.35	73.20	89.659	7,193.77	2,322.71	1,973.70	1,827.43	146.27	13.493	
17,300.00	9,742.00	17,409.27	9,813.16	74.12	73.96	89.659	7,293.77	2,322.09	1,973.64	1,825.84	147.80	13.353	
17,400.00	9,742.00	17,509.27	9,813.68	74.89	74.73	89.659	7,393.76	2,321.48	1,973.59	1,824.26	149.33	13.216	
17,500.00	9,742.00	17,609.27	9,814.20	75.66	75.50	89.659	7,493.76	2,320.86	1,973.54	1,822.67	150.87	13.081	
17,600.00	9,742.00	17,709.27	9,814.73	76.43	76.27	89.659	7,593.75	2,320.25	1,973.48	1,821.07	152.41	12.948	
17,700.00	9,742.00	17,809.27	9,815.25	77.21	77.04	89.659	7,693.75	2,319.64	1,973.43	1,819.47	153.96	12.818	
17,800.00	9,742.00	17,909.27	9,815.77	77.99	77.81	89.659	7,793.74	2,319.02	1,973.38	1,817.87	155.51	12.690	
17,900.00	9,742.00	18,009.27	9,816.30	78.77	78.59	89.659	7,893.74	2,318.41	1,973.33	1,816.26	157.06	12.564	
18,000.00	9,742.00	18,109.26	9,816.82	79.55	79.37	89.659	7,993.73	2,317.79	1,973.27	1,814.65	158.62	12.440	
18,100.00	9,742.00	18,209.26	9,817.35	80.33	80.15	89.659	8,093.73	2,317.18	1,973.22	1,813.04	160.18	12.319	
18,200.00	9,742.00	18,309.26	9,817.87	81.12	80.93	89.659	8,193.73	2,316.56	1,973.17	1,811.43	161.74	12.199	
18,300.00	9,742.00	18,409.26	9,818.39	81.90	81.71	89.660	8,293.72	2,315.95	1,973.12	1,809.81	163.31	12.082	
18,400.00	9,742.00	18,509.26	9,818.92	82.69	82.50	89.660	8,393.72	2,315.33	1,973.07	1,808.18	164.88	11.966	
18,500.00	9,742.00	18,609.26	9,819.44	83.48	83.28	89.660	8,493.71	2,314.72	1,973.01	1,806.56	166.46	11.853	

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference 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	Offset	Semi Major Axis		Rule Assigned:			Distance		Minimum		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor			
18,600.00	9,742.00	18,709.26	9,819.96	84.27	84.07	89.660	8,593.71	2,314.11	1,972.96	1,804.93	168.03	11.742			
18,700.00	9,742.00	18,809.25	9,820.49	85.07	84.86	89.660	8,693.70	2,313.49	1,972.91	1,803.30	169.61	11.632			
18,800.00	9,742.00	18,909.25	9,821.01	85.86	85.65	89.660	8,793.70	2,312.88	1,972.86	1,801.66	171.20	11.524			
18,900.00	9,742.00	19,009.25	9,821.53	86.66	86.45	89.660	8,893.69	2,312.26	1,972.81	1,800.03	172.78	11.418			
19,000.00	9,742.00	19,109.25	9,822.06	87.46	87.24	89.660	8,993.69	2,311.65	1,972.76	1,798.39	174.37	11.314			
19,100.00	9,742.00	19,209.25	9,822.58	88.25	88.04	89.660	9,093.68	2,311.03	1,972.71	1,796.75	175.96	11.211			
19,200.00	9,742.00	19,309.25	9,823.10	89.05	88.83	89.660	9,193.68	2,310.42	1,972.66	1,795.10	177.55	11.110			
19,300.00	9,742.00	19,409.25	9,823.63	89.85	89.63	89.660	9,293.67	2,309.80	1,972.61	1,793.46	179.15	11.011			
19,400.00	9,742.00	19,509.24	9,824.15	90.66	90.43	89.660	9,393.67	2,309.19	1,972.56	1,791.81	180.75	10.913			
19,500.00	9,742.00	19,609.24	9,824.68	91.46	91.23	89.660	9,493.67	2,308.57	1,972.50	1,790.16	182.35	10.817			
19,600.00	9,742.00	19,709.24	9,825.20	92.26	92.03	89.661	9,593.66	2,307.96	1,972.45	1,788.50	183.95	10.723			
19,700.00	9,742.00	19,809.24	9,825.72	93.07	92.83	89.661	9,693.66	2,307.35	1,972.40	1,786.85	185.56	10.630			
19,800.00	9,742.00	19,909.24	9,826.25	93.88	93.64	89.661	9,793.65	2,306.73	1,972.35	1,785.19	187.16	10.538			
19,900.00	9,742.00	20,009.24	9,826.77	94.69	94.44	89.661	9,893.65	2,306.12	1,972.31	1,783.53	188.77	10.448			
20,000.00	9,742.00	20,109.24	9,827.29	95.49	95.25	89.661	9,993.64	2,305.50	1,972.26	1,781.87	190.38	10.359			
20,032.45	9,742.00	20,141.68	9,827.46	95.76	95.51	89.661	10,026.09	2,305.30	1,972.24	1,781.33	190.91	10.331 SF			

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

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

Survey Program: 0-MWD+IFR1+SAG+FDIR		Offset		Semi Major Axis		Azimuth from North (°)	Offset Wellbore Centre		Rule Assigned: Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	2.00	0.00	0.00	0.01	90.000	0.00	1,214.34	1,214.34				
100.00	100.00	102.00	100.00	0.26	0.27	90.000	0.00	1,214.34	1,214.34	1,213.81	0.53	2,273.520	
200.00	200.00	202.00	200.00	0.62	0.63	90.000	0.00	1,214.34	1,214.34	1,213.09	1.25	970.644	
300.00	300.00	302.00	300.00	0.98	0.99	90.000	0.00	1,214.34	1,214.34	1,212.37	1.97	617.040	
400.00	400.00	402.00	400.00	1.34	1.35	90.000	0.00	1,214.34	1,214.34	1,211.66	2.68	452.276	
465.99	465.99	467.99	465.99	1.58	1.58	90.000	0.00	1,214.34	1,214.34	1,211.18	3.16	384.524 CC	
500.00	500.00	500.00	498.00	1.70	1.70	90.000	0.00	1,214.34	1,214.34	1,210.95	3.39	357.714	
600.00	600.00	587.75	585.74	2.06	2.00	90.020	-0.43	1,214.85	1,214.94	1,210.88	4.06	299.581 ES	
700.00	700.00	673.73	671.70	2.41	2.29	90.080	-1.69	1,216.36	1,216.69	1,211.98	4.70	258.647	
800.00	800.00	759.64	757.55	2.77	2.58	90.178	-3.78	1,218.85	1,219.59	1,214.24	5.35	227.782	
900.00	899.99	840.16	837.96	3.11	2.86	90.266	-6.42	1,222.17	1,223.33	1,217.36	5.97	204.871	
1,000.00	999.96	915.89	913.50	3.45	3.13	90.286	-9.15	1,226.74	1,228.07	1,221.52	6.56	187.217	
1,100.00	1,099.86	1,000.00	997.27	3.78	3.42	90.260	-12.39	1,233.56	1,233.95	1,226.77	7.18	171.746	
1,200.00	1,199.68	1,066.97	1,063.84	4.12	3.66	90.140	-15.12	1,240.30	1,240.83	1,233.09	7.75	160.162	
1,300.00	1,299.37	1,142.25	1,138.51	4.47	3.93	89.974	-18.35	1,249.26	1,248.84	1,240.50	8.34	149.690	
1,370.13	1,369.19	1,200.00	1,195.67	4.71	4.14	89.832	-20.95	1,257.12	1,255.11	1,246.33	8.78	142.934	
1,400.00	1,398.91	1,217.30	1,212.76	4.81	4.21	89.750	-21.75	1,259.64	1,257.96	1,249.02	8.94	140.738	
1,500.00	1,498.42	1,300.00	1,294.32	5.16	4.51	89.537	-25.68	1,272.76	1,268.85	1,259.28	9.57	132.637	
1,600.00	1,597.92	1,366.53	1,359.70	5.51	4.75	89.297	-28.99	1,284.59	1,281.61	1,271.49	10.12	126.606	
1,700.00	1,697.43	1,440.59	1,432.23	5.87	5.03	89.087	-32.82	1,299.08	1,296.32	1,285.61	10.71	121.023	
1,800.00	1,796.93	1,514.21	1,504.03	6.22	5.30	88.886	-36.79	1,314.87	1,312.93	1,301.64	11.30	116.239	
1,900.00	1,896.44	1,600.00	1,587.28	6.58	5.63	88.731	-41.62	1,335.00	1,331.51	1,319.57	11.94	111.548	
2,000.00	1,995.94	1,659.95	1,645.18	6.94	5.85	88.516	-45.11	1,350.17	1,351.78	1,339.33	12.45	108.617	
2,100.00	2,095.45	1,746.27	1,728.20	7.30	6.19	88.387	-50.28	1,373.22	1,373.68	1,360.60	13.09	104.964	
2,200.00	2,194.95	1,843.78	1,821.94	7.66	6.57	88.294	-56.13	1,399.40	1,395.77	1,381.98	13.79	101.214	
2,300.00	2,294.46	1,941.28	1,915.68	8.02	6.95	88.205	-61.99	1,425.59	1,417.86	1,403.37	14.50	97.814	
2,400.00	2,393.97	2,038.79	2,009.43	8.38	7.34	88.118	-67.84	1,451.77	1,439.96	1,424.75	15.20	94.719	
2,500.00	2,493.47	2,136.29	2,103.17	8.74	7.72	88.034	-73.70	1,477.96	1,462.05	1,446.14	15.91	91.889	
2,600.00	2,592.98	2,233.80	2,196.91	9.11	8.11	87.952	-79.55	1,504.14	1,484.15	1,467.53	16.62	89.294	
2,700.00	2,692.48	2,331.31	2,290.65	9.47	8.50	87.873	-85.40	1,530.32	1,506.26	1,488.92	17.33	86.905	
2,800.00	2,791.99	2,428.81	2,384.39	9.83	8.90	87.796	-91.26	1,556.51	1,528.36	1,510.32	18.04	84.699	
2,900.00	2,891.49	2,526.32	2,478.14	10.20	9.29	87.721	-97.11	1,582.69	1,550.47	1,531.71	18.76	82.657	
3,000.00	2,991.00	2,623.83	2,571.88	10.56	9.69	87.648	-102.97	1,608.87	1,572.58	1,553.11	19.47	80.760	
3,100.00	3,090.50	2,721.33	2,665.62	10.92	10.08	87.578	-108.82	1,635.06	1,594.69	1,574.51	20.19	78.995	
3,200.00	3,190.01	2,818.84	2,759.36	11.29	10.48	87.509	-114.68	1,661.24	1,616.81	1,595.91	20.90	77.348	
3,300.00	3,289.51	2,916.34	2,853.11	11.65	10.87	87.442	-120.53	1,687.42	1,638.93	1,617.31	21.62	75.808	
3,400.00	3,389.02	3,013.85	2,946.85	12.02	11.27	87.377	-126.38	1,713.61	1,661.04	1,638.71	22.34	74.364	
3,500.00	3,488.52	3,111.36	3,040.59	12.38	11.67	87.314	-132.24	1,739.79	1,683.17	1,660.11	23.05	73.009	
3,600.00	3,588.03	3,208.86	3,134.33	12.75	12.07	87.252	-138.09	1,765.98	1,705.29	1,681.52	23.77	71.734	
3,700.00	3,687.53	3,306.37	3,228.08	13.11	12.47	87.192	-143.95	1,792.16	1,727.41	1,702.92	24.49	70.532	
3,800.00	3,787.04	3,403.88	3,321.82	13.48	12.87	87.133	-149.80	1,818.34	1,749.54	1,724.33	25.21	69.398	
3,900.00	3,886.55	3,501.38	3,415.56	13.85	13.27	87.076	-155.65	1,844.53	1,771.67	1,745.74	25.93	68.326	
4,000.00	3,986.05	3,598.89	3,509.30	14.21	13.67	87.020	-161.51	1,870.71	1,793.80	1,767.15	26.65	67.311	
4,100.00	4,085.56	3,696.39	3,603.04	14.58	14.07	86.966	-167.36	1,896.89	1,815.93	1,788.56	27.37	66.348	
4,200.00	4,185.06	3,793.90	3,696.79	14.94	14.47	86.913	-173.22	1,923.08	1,838.06	1,809.97	28.09	65.434	
4,300.00	4,284.57	3,891.41	3,790.53	15.31	14.87	86.861	-179.07	1,949.26	1,860.20	1,831.38	28.81	64.565	
4,400.00	4,384.07	3,988.91	3,884.27	15.68	15.27	86.811	-184.93	1,975.44	1,882.33	1,852.80	29.53	63.738	
4,500.00	4,483.58	4,086.42	3,978.01	16.04	15.67	86.761	-190.78	2,001.63	1,904.47	1,874.21	30.25	62.949	
4,600.00	4,583.08	4,183.92	4,071.76	16.41	16.08	86.713	-196.63	2,027.81	1,926.61	1,895.63	30.98	62.197	
4,700.00	4,682.59	4,281.43	4,165.50	16.78	16.48	86.666	-202.49	2,054.00	1,948.75	1,917.05	31.70	61.479	
4,800.00	4,782.09	4,378.94	4,259.24	17.14	16.88	86.620	-208.34	2,080.18	1,970.89	1,938.47	32.42	60.792	

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 126H - Wellbore #1 - Design #1														Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+FDIR														Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
4,900.00	4,881.60	4,476.44	4,352.98	17.51	17.28	86.575	-214.20	2,106.36	1,993.03	1,959.89	33.14	60.135			
5,000.00	4,981.10	4,573.95	4,446.72	17.88	17.69	86.531	-220.05	2,132.55	2,015.17	1,981.31	33.87	59.505			
5,100.00	5,080.61	4,671.46	4,540.47	18.24	18.09	86.487	-225.90	2,158.73	2,037.31	2,002.73	34.59	58.902			
5,200.00	5,180.11	4,768.96	4,634.21	18.61	18.49	86.445	-231.76	2,184.91	2,059.46	2,024.15	35.31	58.323			
5,300.00	5,279.62	4,866.47	4,727.95	18.98	18.89	86.404	-237.61	2,211.10	2,081.61	2,045.57	36.03	57.766			
5,400.00	5,379.12	4,963.97	4,821.69	19.34	19.30	86.363	-243.47	2,237.28	2,103.75	2,066.99	36.76	57.232			
5,500.00	5,478.63	5,061.48	4,915.44	19.71	19.70	86.324	-249.32	2,263.46	2,125.90	2,088.42	37.48	56.718			
5,600.00	5,578.14	5,158.99	5,009.18	20.08	20.10	86.285	-255.17	2,289.65	2,148.05	2,109.84	38.21	56.223			
5,700.00	5,677.64	5,256.49	5,102.92	20.44	20.51	86.247	-261.03	2,315.83	2,170.20	2,131.27	38.93	55.746			
5,800.00	5,777.15	5,354.00	5,196.66	20.81	20.91	86.210	-266.88	2,342.02	2,192.35	2,152.70	39.65	55.286			
5,900.00	5,876.65	5,451.51	5,290.40	21.18	21.32	86.174	-272.74	2,368.20	2,214.50	2,174.12	40.38	54.843			
6,000.00	5,976.16	5,549.01	5,384.15	21.54	21.72	86.138	-278.59	2,394.38	2,236.65	2,195.55	41.10	54.415			
6,100.00	6,075.66	5,646.52	5,477.89	21.91	22.12	86.103	-284.45	2,420.57	2,258.81	2,216.98	41.83	54.002			
6,200.00	6,175.17	5,744.02	5,571.63	22.28	22.53	86.068	-290.30	2,446.75	2,280.96	2,238.41	42.55	53.602			
6,300.00	6,274.67	5,841.53	5,665.37	22.65	22.93	86.035	-296.15	2,472.93	2,303.12	2,259.84	43.28	53.216			
6,400.00	6,374.18	5,939.04	5,759.12	23.01	23.34	86.002	-302.01	2,499.12	2,325.27	2,281.27	44.00	52.843			
6,456.91	6,430.81	5,994.53	5,812.46	23.22	23.57	85.983	-305.34	2,514.02	2,337.88	2,293.46	44.42	52.635			
6,500.00	6,473.70	6,036.53	5,852.84	23.38	23.74	85.973	-307.86	2,525.30	2,347.50	2,302.77	44.73	52.483			
6,600.00	6,573.35	6,133.88	5,946.43	23.75	24.14	85.977	-313.71	2,551.44	2,370.37	2,324.92	45.45	52.153			
6,700.00	6,673.13	6,231.03	6,039.83	24.11	24.55	86.020	-319.54	2,577.53	2,394.01	2,347.84	46.17	51.854			
6,800.00	6,773.02	6,327.95	6,133.01	24.47	24.95	86.100	-325.36	2,603.55	2,418.41	2,371.53	46.88	51.587			
6,900.00	6,872.97	6,424.61	6,225.95	24.82	25.35	86.216	-331.16	2,629.51	2,443.56	2,395.97	47.59	51.348			
7,000.00	6,972.96	6,520.99	6,318.61	25.18	25.75	86.367	-336.95	2,655.39	2,469.48	2,421.19	48.29	51.137			
7,027.04	7,000.00	6,547.00	6,343.61	25.27	25.86	86.414	-338.51	2,662.38	2,476.62	2,428.14	48.48	51.089			
7,100.00	7,072.96	6,617.14	6,411.05	25.51	26.15	86.542	-342.72	2,681.21	2,495.96	2,446.99	48.97	50.974			
7,200.00	7,172.96	6,713.28	6,503.48	25.83	26.55	86.714	-348.49	2,707.03	2,522.49	2,472.85	49.64	50.820			
7,300.00	7,272.96	6,809.42	6,595.90	26.16	26.94	86.883	-354.27	2,732.84	2,549.04	2,498.73	50.31	50.669			
7,400.00	7,372.96	6,905.56	6,688.33	26.48	27.34	87.049	-360.04	2,758.66	2,575.61	2,524.63	50.98	50.522			
7,500.00	7,472.96	7,001.70	6,780.76	26.81	27.74	87.211	-365.81	2,784.48	2,602.20	2,550.55	51.65	50.378			
7,600.00	7,572.96	7,097.84	6,873.19	27.14	28.14	87.369	-371.58	2,810.30	2,628.81	2,576.48	52.33	50.237			
7,700.00	7,672.96	7,193.98	6,965.62	27.47	28.54	87.525	-377.35	2,836.11	2,655.44	2,602.44	53.00	50.100			
7,800.00	7,772.96	7,290.12	7,058.05	27.79	28.94	87.678	-383.13	2,861.93	2,682.09	2,628.41	53.68	49.965			
7,900.00	7,872.96	7,386.26	7,150.48	28.12	29.34	87.827	-388.90	2,887.75	2,708.75	2,654.39	54.36	49.834			
8,000.00	7,972.96	7,482.40	7,242.90	28.46	29.74	87.974	-394.67	2,913.56	2,735.43	2,680.40	55.03	49.705			
8,100.00	8,072.96	7,578.54	7,335.33	28.79	30.14	88.118	-400.44	2,939.38	2,762.13	2,706.42	55.71	49.579			
8,200.00	8,172.96	7,674.68	7,427.76	29.12	30.54	88.259	-406.21	2,965.20	2,788.84	2,732.45	56.39	49.456			
8,300.00	8,272.96	7,770.82	7,520.19	29.45	30.94	88.397	-411.99	2,991.01	2,815.57	2,758.50	57.07	49.336			
8,400.00	8,372.96	7,866.96	7,612.62	29.78	31.34	88.533	-417.76	3,016.83	2,842.31	2,784.56	57.75	49.217			
8,500.00	8,472.96	7,963.10	7,705.05	30.12	31.73	88.666	-423.53	3,042.65	2,869.07	2,810.64	58.43	49.102			
8,600.00	8,572.96	8,059.24	7,797.48	30.45	32.13	88.797	-429.30	3,068.46	2,895.84	2,836.73	59.11	48.988			
8,700.00	8,672.96	8,155.38	7,889.90	30.79	32.53	88.925	-435.07	3,094.28	2,922.63	2,862.83	59.80	48.877			
8,800.00	8,772.96	8,251.51	7,982.32	31.12	33.01	89.075	-441.95	3,125.04	2,949.41	2,888.82	60.59	48.681			
8,900.00	8,872.96	8,347.64	8,074.74	31.46	34.58	89.473	-460.93	3,209.92	2,970.71	2,907.95	62.76	47.336			
9,000.00	8,972.96	9,082.04	8,799.48	31.80	36.04	89.678	-471.16	3,255.70	2,981.79	2,917.35	64.44	46.272			
9,100.00	9,072.96	9,355.64	9,072.96	32.13	36.92	89.708	-472.65	3,262.34	2,983.38	2,917.97	65.41	45.608			
9,196.08	9,169.04	9,451.73	9,169.04	32.46	37.21	89.708	-472.65	3,262.34	2,983.38	2,917.34	66.04	45.173			
9,200.00	9,172.96	9,455.64	9,172.96	32.47	37.22	89.708	-472.65	3,262.34	2,983.38	2,917.31	66.07	45.155			
9,250.00	9,222.88	9,505.56	9,222.88	32.64	37.37	89.756	-472.65	3,262.34	2,983.01	2,916.62	66.39	44.929			
9,300.00	9,272.39	9,537.45	9,254.75	32.80	37.47	89.874	-472.00	3,262.42	2,982.17	2,915.48	66.69	44.716			
9,350.00	9,321.11	9,567.58	9,284.80	32.96	37.56	90.044	-469.80	3,262.69	2,981.05	2,914.08	66.98	44.509			

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 126H - Wellbore #1 - Design #1														Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+FDIR														Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
9,400.00	9,368.68	9,600.00	9,316.94	33.12	37.66	90.257	-465.67	3,263.20	2,979.68	2,912.43	67.25	44.306			
9,450.00	9,414.73	9,628.16	9,344.64	33.26	37.74	90.530	-460.63	3,263.82	2,978.07	2,910.56	67.51	44.113			
9,500.00	9,458.90	9,650.00	9,365.93	33.40	37.80	90.884	-455.79	3,264.41	2,976.26	2,908.52	67.74	43.934			
9,550.00	9,500.88	9,689.29	9,403.70	33.53	37.91	91.196	-445.08	3,265.73	2,974.23	2,906.24	67.99	43.745			
9,600.00	9,540.32	9,720.13	9,432.78	33.65	38.00	91.587	-434.88	3,266.98	2,972.06	2,903.85	68.21	43.572			
9,650.00	9,576.94	9,750.00	9,460.37	33.77	38.08	92.020	-423.54	3,268.37	2,969.76	2,901.35	68.41	43.409			
9,700.00	9,610.46	9,782.53	9,489.70	33.87	38.16	92.462	-409.59	3,270.08	2,967.38	2,898.77	68.61	43.253			
9,750.00	9,640.61	9,814.17	9,517.41	33.96	38.23	92.935	-394.45	3,271.94	2,964.94	2,896.16	68.78	43.106			
9,800.00	9,667.18	9,850.00	9,547.73	34.05	38.31	93.383	-375.51	3,274.27	2,962.49	2,893.54	68.95	42.964			
9,850.00	9,689.96	9,878.55	9,571.00	34.13	38.37	93.922	-359.09	3,276.28	2,960.07	2,890.98	69.09	42.842			
9,900.00	9,708.77	9,911.42	9,596.72	34.20	38.43	94.422	-338.79	3,278.78	2,957.72	2,888.49	69.23	42.725			
9,950.00	9,723.48	9,944.83	9,621.63	34.27	38.49	94.915	-316.69	3,281.49	2,955.48	2,886.13	69.35	42.620			
10,000.00	9,733.96	9,978.89	9,645.64	34.32	38.55	95.394	-292.72	3,284.43	2,953.40	2,883.95	69.45	42.527			
10,050.00	9,740.15	10,013.70	9,668.64	34.37	38.59	95.849	-266.80	3,287.62	2,951.51	2,881.98	69.53	42.447			
10,096.08	9,742.00	10,046.56	9,688.87	34.41	38.64	96.240	-241.10	3,290.77	2,949.98	2,880.39	69.60	42.386			
10,100.00	9,742.00	10,050.00	9,690.91	34.41	38.64	96.262	-238.35	3,291.11	2,949.87	2,880.27	69.60	42.381			
10,161.11	9,742.00	10,096.40	9,716.64	34.47	38.69	96.700	-200.04	3,295.81	2,949.00	2,879.31	69.69	42.318			
10,200.00	9,742.00	10,129.03	9,732.83	34.50	38.71	96.905	-171.92	3,299.26	2,949.34	2,879.59	69.74	42.289			
10,300.00	9,742.00	10,222.37	9,769.92	34.62	38.76	97.184	-87.02	3,309.69	2,953.09	2,883.18	69.91	42.239			
10,400.00	9,742.00	10,327.00	9,794.40	34.75	38.77	97.148	13.80	3,322.07	2,960.53	2,890.41	70.12	42.219			
10,500.00	9,742.00	10,814.99	9,802.55	34.91	38.72	89.654	500.03	3,352.85	2,966.91	2,895.96	70.95	41.820			
10,511.62	9,742.00	10,826.61	9,802.61	34.93	38.72	89.654	511.65	3,352.78	2,966.88	2,895.89	70.98	41.797			
10,600.00	9,742.00	10,914.99	9,803.07	35.09	38.71	89.654	600.02	3,352.24	2,966.82	2,895.54	71.28	41.622			
10,700.00	9,742.00	11,014.99	9,803.60	35.29	38.70	89.654	700.02	3,351.62	2,966.76	2,895.10	71.66	41.402			
10,800.00	9,742.00	11,114.99	9,804.12	35.51	38.70	89.654	800.01	3,351.01	2,966.70	2,894.63	72.07	41.162			
10,900.00	9,742.00	11,214.99	9,804.64	35.75	38.69	89.654	900.01	3,350.39	2,966.64	2,894.11	72.53	40.903			
11,000.00	9,742.00	11,314.99	9,805.17	36.00	38.70	89.654	1,000.00	3,349.78	2,966.58	2,893.55	73.02	40.625			
11,100.00	9,742.00	11,414.98	9,805.69	36.28	38.71	89.654	1,100.00	3,349.17	2,966.52	2,892.96	73.55	40.331			
11,200.00	9,742.00	11,514.98	9,806.21	36.58	38.72	89.654	1,200.00	3,348.55	2,966.46	2,892.33	74.12	40.021			
11,300.00	9,742.00	11,614.98	9,806.74	36.89	38.76	89.655	1,299.99	3,347.94	2,966.39	2,891.67	74.73	39.697			
11,400.00	9,742.00	11,714.98	9,807.26	37.22	38.84	89.655	1,399.99	3,347.32	2,966.33	2,890.97	75.36	39.360			
11,500.00	9,742.00	11,814.98	9,807.78	37.57	39.00	89.655	1,499.98	3,346.71	2,966.27	2,890.24	76.04	39.011			
11,600.00	9,742.00	11,914.98	9,808.31	37.93	39.27	89.655	1,599.98	3,346.09	2,966.21	2,889.47	76.74	38.651			
11,700.00	9,742.00	12,014.98	9,808.83	38.31	39.59	89.655	1,699.97	3,345.48	2,966.15	2,888.67	77.48	38.282			
11,800.00	9,742.00	12,114.97	9,809.36	38.71	39.95	89.655	1,799.97	3,344.87	2,966.09	2,887.84	78.25	37.905			
11,900.00	9,742.00	12,214.97	9,809.88	39.12	40.34	89.655	1,899.96	3,344.25	2,966.03	2,886.98	79.05	37.521			
12,000.00	9,742.00	12,314.97	9,810.40	39.55	40.74	89.655	1,999.96	3,343.64	2,965.97	2,886.09	79.88	37.130			
12,100.00	9,742.00	12,414.97	9,810.93	39.99	41.16	89.655	2,099.95	3,343.02	2,965.91	2,885.17	80.74	36.735			
12,200.00	9,742.00	12,514.97	9,811.45	40.44	41.60	89.655	2,199.95	3,342.41	2,965.85	2,884.23	81.62	36.335			
12,300.00	9,742.00	12,614.97	9,811.97	40.91	42.05	89.655	2,299.94	3,341.79	2,965.79	2,883.26	82.54	35.933			
12,400.00	9,742.00	12,714.97	9,812.50	41.39	42.51	89.655	2,399.94	3,341.18	2,965.73	2,882.26	83.48	35.528			
12,500.00	9,742.00	12,814.96	9,813.02	41.88	42.99	89.655	2,499.93	3,340.56	2,965.67	2,881.23	84.44	35.122			
12,600.00	9,742.00	12,914.96	9,813.54	42.39	43.47	89.655	2,599.93	3,339.95	2,965.61	2,880.19	85.43	34.715			
12,700.00	9,742.00	13,014.96	9,814.07	42.91	43.97	89.655	2,699.93	3,339.34	2,965.55	2,879.11	86.44	34.308			
12,800.00	9,742.00	13,114.96	9,814.59	43.43	44.48	89.655	2,799.92	3,338.72	2,965.49	2,878.02	87.47	33.902			
12,900.00	9,742.00	13,214.96	9,815.11	43.97	45.00	89.655	2,899.92	3,338.11	2,965.43	2,876.91	88.53	33.497			
13,000.00	9,742.00	13,314.96	9,815.64	44.52	45.54	89.655	2,999.91	3,337.49	2,965.38	2,875.77	89.61	33.094			
13,100.00	9,742.00	13,414.96	9,816.16	45.08	46.08	89.655	3,099.91	3,336.88	2,965.32	2,874.61	90.70	32.693			
13,200.00	9,742.00	13,514.96	9,816.69	45.65	46.63	89.656	3,199.90	3,336.26	2,965.26	2,873.44	91.82	32.295			
13,300.00	9,742.00	13,614.95	9,817.21	46.23	47.19	89.656	3,299.90	3,335.65	2,965.20	2,872.24	92.95	31.899			
13,400.00	9,742.00	13,714.95	9,817.73	46.81	47.76	89.656	3,399.89	3,335.03	2,965.14	2,871.03	94.11	31.508			

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 126H - Wellbore #1 - Design #1														Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+FDIR														Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
13,500.00	9,742.00	13,814.95	9,818.26	47.41	48.34	89.656	3,499.89	3,334.42	2,965.08	2,869.80	95.28	31.120			
13,600.00	9,742.00	13,914.95	9,818.78	48.01	48.93	89.656	3,599.88	3,333.81	2,965.02	2,868.56	96.47	30.736			
13,700.00	9,742.00	14,014.95	9,819.30	48.62	49.52	89.656	3,699.88	3,333.19	2,964.96	2,867.29	97.67	30.356			
13,800.00	9,742.00	14,114.95	9,819.83	49.24	50.12	89.656	3,799.87	3,332.58	2,964.91	2,866.01	98.89	29.981			
13,900.00	9,742.00	14,214.95	9,820.35	49.87	50.74	89.656	3,899.87	3,331.96	2,964.85	2,864.72	100.13	29.611			
14,000.00	9,742.00	14,314.94	9,820.87	50.50	51.35	89.656	3,999.87	3,331.35	2,964.79	2,863.41	101.38	29.245			
14,100.00	9,742.00	14,414.94	9,821.40	51.14	51.98	89.656	4,099.86	3,330.73	2,964.73	2,862.09	102.64	28.885			
14,200.00	9,742.00	14,514.94	9,821.92	51.79	52.61	89.656	4,199.86	3,330.12	2,964.67	2,860.76	103.92	28.529			
14,300.00	9,742.00	14,614.94	9,822.44	52.44	53.25	89.656	4,299.85	3,329.51	2,964.61	2,859.41	105.21	28.179			
14,400.00	9,742.00	14,714.94	9,822.97	53.10	53.89	89.656	4,399.85	3,328.89	2,964.56	2,858.05	106.51	27.834			
14,500.00	9,742.00	14,814.94	9,823.49	53.77	54.54	89.656	4,499.84	3,328.28	2,964.50	2,856.68	107.82	27.494			
14,600.00	9,742.00	14,914.94	9,824.02	54.44	55.20	89.656	4,599.84	3,327.66	2,964.44	2,855.29	109.15	27.159			
14,700.00	9,742.00	15,014.93	9,824.54	55.12	55.86	89.656	4,699.83	3,327.05	2,964.38	2,853.90	110.49	26.830			
14,800.00	9,742.00	15,114.93	9,825.06	55.80	56.53	89.656	4,799.83	3,326.43	2,964.33	2,852.49	111.84	26.506			
14,900.00	9,742.00	15,214.93	9,825.59	56.49	57.20	89.656	4,899.82	3,325.82	2,964.27	2,851.07	113.19	26.187			
15,000.00	9,742.00	15,314.93	9,826.11	57.18	57.88	89.656	4,999.82	3,325.20	2,964.21	2,849.65	114.56	25.874			
15,100.00	9,742.00	15,414.93	9,826.63	57.88	58.56	89.657	5,099.81	3,324.59	2,964.15	2,848.21	115.94	25.566			
15,200.00	9,742.00	15,514.93	9,827.16	58.58	59.25	89.657	5,199.81	3,323.98	2,964.10	2,846.77	117.33	25.263			
15,300.00	9,742.00	15,614.93	9,827.68	59.28	59.94	89.657	5,299.80	3,323.36	2,964.04	2,845.31	118.73	24.965			
15,400.00	9,742.00	15,714.92	9,828.20	59.99	60.64	89.657	5,399.80	3,322.75	2,963.98	2,843.85	120.13	24.673			
15,500.00	9,742.00	15,814.92	9,828.73	60.71	61.34	89.657	5,499.80	3,322.13	2,963.93	2,842.38	121.55	24.385			
15,600.00	9,742.00	15,914.92	9,829.25	61.42	62.05	89.657	5,599.79	3,321.52	2,963.87	2,840.90	122.97	24.103			
15,700.00	9,742.00	16,014.92	9,829.78	62.15	62.76	89.657	5,699.79	3,320.90	2,963.81	2,839.42	124.40	23.825			
15,800.00	9,742.00	16,114.92	9,830.30	62.87	63.47	89.657	5,799.78	3,320.29	2,963.76	2,837.92	125.83	23.553			
15,900.00	9,742.00	16,214.92	9,830.82	63.60	64.19	89.657	5,899.78	3,319.67	2,963.70	2,836.42	127.28	23.285			
16,000.00	9,742.00	16,314.92	9,831.35	64.33	64.91	89.657	5,999.77	3,319.06	2,963.64	2,834.91	128.73	23.022			
16,100.00	9,742.00	16,414.91	9,831.87	65.07	65.63	89.657	6,099.77	3,318.45	2,963.59	2,833.40	130.19	22.764			
16,200.00	9,742.00	16,514.91	9,832.39	65.81	66.36	89.657	6,199.76	3,317.83	2,963.53	2,831.88	131.66	22.510			
16,300.00	9,742.00	16,614.91	9,832.92	66.55	67.09	89.657	6,299.76	3,317.22	2,963.47	2,830.35	133.13	22.261			
16,400.00	9,742.00	16,714.91	9,833.44	67.29	67.82	89.657	6,399.75	3,316.60	2,963.42	2,828.81	134.60	22.016			
16,500.00	9,742.00	16,814.91	9,833.96	68.04	68.56	89.657	6,499.75	3,315.99	2,963.36	2,827.27	136.09	21.775			
16,600.00	9,742.00	16,914.91	9,834.49	68.79	69.30	89.657	6,599.74	3,315.37	2,963.31	2,825.73	137.58	21.539			
16,700.00	9,742.00	17,014.91	9,835.01	69.54	70.04	89.657	6,699.74	3,314.76	2,963.25	2,824.18	139.07	21.307			
16,800.00	9,742.00	17,114.90	9,835.53	70.30	70.79	89.657	6,799.73	3,314.14	2,963.20	2,822.62	140.57	21.079			
16,900.00	9,742.00	17,214.90	9,836.06	71.06	71.53	89.657	6,899.73	3,313.53	2,963.14	2,821.06	142.08	20.856			
17,000.00	9,742.00	17,314.90	9,836.58	71.82	72.28	89.658	6,999.73	3,312.92	2,963.08	2,819.50	143.59	20.636			
17,100.00	9,742.00	17,414.90	9,837.11	72.58	73.04	89.658	7,099.72	3,312.30	2,963.03	2,817.92	145.11	20.420			
17,200.00	9,742.00	17,514.90	9,837.63	73.35	73.79	89.658	7,199.72	3,311.69	2,962.97	2,816.35	146.63	20.208			
17,300.00	9,742.00	17,614.90	9,838.15	74.12	74.55	89.658	7,299.71	3,311.07	2,962.92	2,814.77	148.15	19.999			
17,400.00	9,742.00	17,714.90	9,838.68	74.89	75.31	89.658	7,399.71	3,310.46	2,962.86	2,813.18	149.68	19.795			
17,500.00	9,742.00	17,814.90	9,839.20	75.66	76.08	89.658	7,499.70	3,309.84	2,962.81	2,811.59	151.21	19.593			
17,600.00	9,742.00	17,914.89	9,839.72	76.43	76.84	89.658	7,599.70	3,309.23	2,962.75	2,810.00	152.75	19.396			
17,700.00	9,742.00	18,014.89	9,840.25	77.21	77.61	89.658	7,699.69	3,308.62	2,962.70	2,808.40	154.29	19.202			
17,800.00	9,742.00	18,114.89	9,840.77	77.99	78.38	89.658	7,799.69	3,308.00	2,962.64	2,806.80	155.84	19.011			
17,900.00	9,742.00	18,214.89	9,841.29	78.77	79.15	89.658	7,899.68	3,307.39	2,962.59	2,805.20	157.39	18.823			
18,000.00	9,742.00	18,314.89	9,841.82	79.55	79.92	89.658	7,999.68	3,306.77	2,962.54	2,803.59	158.94	18.639			
18,100.00	9,742.00	18,414.89	9,842.34	80.33	80.70	89.658	8,099.67	3,306.16	2,962.48	2,801.98	160.50	18.458			
18,200.00	9,742.00	18,514.89	9,842.87	81.12	81.47	89.658	8,199.67	3,305.54	2,962.43	2,800.36	162.06	18.280			
18,300.00	9,742.00	18,614.88	9,843.39	81.90	82.25	89.658	8,299.66	3,304.93	2,962.37	2,798.75	163.63	18.104			
18,400.00	9,742.00	18,714.88	9,843.91	82.69	83.03	89.658	8,399.66	3,304.31	2,962.32	2,797.12	165.19	17.932			

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 126H - Wellbore #1 - Design #1														Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+FDIR														Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
18,500.00	9,742.00	18,814.88	9,844.44	83.48	83.81	89.658	8,499.66	3,303.70	2,962.26	2,795.50	166.77	17.763			
18,600.00	9,742.00	18,914.88	9,844.96	84.27	84.60	89.658	8,599.65	3,303.09	2,962.21	2,793.87	168.34	17.597			
18,700.00	9,742.00	19,014.88	9,845.48	85.07	85.38	89.658	8,699.65	3,302.47	2,962.16	2,792.24	169.92	17.433			
18,800.00	9,742.00	19,114.88	9,846.01	85.86	86.17	89.658	8,799.64	3,301.86	2,962.10	2,790.61	171.50	17.272			
18,900.00	9,742.00	19,214.88	9,846.53	86.66	86.96	89.659	8,899.64	3,301.24	2,962.05	2,788.97	173.08	17.114			
19,000.00	9,742.00	19,314.87	9,847.05	87.46	87.75	89.659	8,999.63	3,300.63	2,962.00	2,787.33	174.66	16.958			
19,100.00	9,742.00	19,414.87	9,847.58	88.25	88.54	89.659	9,099.63	3,300.01	2,961.94	2,785.69	176.25	16.805			
19,200.00	9,742.00	19,514.87	9,848.10	89.05	89.33	89.659	9,199.62	3,299.40	2,961.89	2,784.05	177.84	16.655			
19,300.00	9,742.00	19,614.87	9,848.62	89.85	90.12	89.659	9,299.62	3,298.78	2,961.84	2,782.40	179.44	16.506			
19,400.00	9,742.00	19,714.87	9,849.15	90.66	90.92	89.659	9,399.61	3,298.17	2,961.78	2,780.75	181.03	16.360			
19,500.00	9,742.00	19,814.87	9,849.67	91.46	91.72	89.659	9,499.61	3,297.56	2,961.73	2,779.10	182.63	16.217			
19,600.00	9,742.00	19,914.87	9,850.20	92.26	92.51	89.659	9,599.60	3,296.94	2,961.68	2,777.44	184.23	16.076			
19,700.00	9,742.00	20,014.86	9,850.72	93.07	93.31	89.659	9,699.60	3,296.33	2,961.62	2,775.79	185.83	15.937			
19,800.00	9,742.00	20,114.86	9,851.24	93.88	94.11	89.659	9,799.60	3,295.71	2,961.57	2,774.13	187.44	15.800			
19,900.00	9,742.00	20,214.86	9,851.77	94.69	94.91	89.659	9,899.59	3,295.10	2,961.52	2,772.47	189.05	15.665			
20,000.00	9,742.00	20,314.86	9,852.29	95.49	95.72	89.659	9,999.59	3,294.48	2,961.46	2,770.81	190.66	15.533			
20,032.45	9,742.00	20,347.30	9,852.46	95.76	95.98	89.659	10,032.03	3,294.28	2,961.45	2,770.27	191.18	15.490 SF			

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

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

Survey Program: 0-MWD+IFR1+SAG+FDIR										Rule Assigned:		Offset Site Error: 0.00 usft	
Reference Offset										Offset Well Error: 0.00 usft		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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	
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	
600.00	600.00	600.00	600.00	2.06	2.06	0.000	25.00	0.00	25.00	20.89	4.11	6.080	
700.00	700.00	700.00	700.00	2.41	2.41	0.000	25.00	0.00	25.00	20.17	4.83	5.177	
800.00	800.00	800.00	800.00	2.77	2.77	0.000	25.00	0.00	25.00	19.45	5.55	4.508 CC	
900.00	899.99	900.17	900.16	3.11	3.12	-3.796	24.59	-1.25	25.41	19.17	6.24	4.075 ES	
1,000.00	999.96	1,000.14	1,000.05	3.45	3.46	-14.273	23.38	-4.99	27.25	20.34	6.91	3.946 SF	
1,100.00	1,099.86	1,099.73	1,099.42	3.78	3.80	-28.143	21.37	-11.18	31.97	24.38	7.59	4.214	
1,200.00	1,199.68	1,198.73	1,198.01	4.12	4.15	-41.026	18.57	-19.77	40.72	32.45	8.26	4.926	
1,300.00	1,299.37	1,296.97	1,295.57	4.47	4.49	-50.733	15.02	-30.70	53.77	44.83	8.94	6.015	
1,370.13	1,369.19	1,365.32	1,363.26	4.71	4.74	-55.692	12.10	-39.71	65.38	55.97	9.41	6.947	
1,400.00	1,398.91	1,394.28	1,391.89	4.81	4.84	-57.454	10.74	-43.88	70.84	61.23	9.61	7.371	
1,500.00	1,498.42	1,490.67	1,486.91	5.16	5.19	-62.459	5.76	-59.22	90.62	80.35	10.27	8.825	
1,600.00	1,597.92	1,586.07	1,580.53	5.51	5.53	-66.432	0.09	-76.65	112.70	101.78	10.92	10.321	
1,700.00	1,697.43	1,680.39	1,672.61	5.87	5.88	-69.669	-6.21	-96.07	137.07	125.51	11.56	11.857	
1,800.00	1,796.93	1,773.53	1,763.02	6.22	6.23	-72.356	-13.13	-117.35	163.71	151.52	12.19	13.431	
1,900.00	1,896.44	1,868.19	1,854.48	6.58	6.59	-74.649	-20.67	-140.57	192.10	179.25	12.85	14.952	
2,000.00	1,995.94	1,963.78	1,946.81	6.94	6.95	-76.404	-28.32	-164.10	220.80	207.27	13.53	16.324	
2,100.00	2,095.45	2,059.37	2,039.15	7.30	7.32	-77.756	-35.96	-187.63	249.66	235.45	14.21	17.571	
2,200.00	2,194.95	2,154.96	2,131.48	7.66	7.69	-78.829	-43.61	-211.16	278.62	263.73	14.89	18.707	
2,300.00	2,294.46	2,250.55	2,223.81	8.02	8.06	-79.700	-51.25	-234.69	307.66	292.08	15.58	19.744	
2,400.00	2,393.97	2,346.14	2,316.15	8.38	8.44	-80.422	-58.90	-258.22	336.76	320.48	16.27	20.694	
2,500.00	2,493.47	2,441.73	2,408.48	8.74	8.82	-81.029	-66.55	-281.75	365.90	348.93	16.97	21.567	
2,600.00	2,592.98	2,537.32	2,500.81	9.11	9.19	-81.547	-74.19	-305.28	395.07	377.41	17.66	22.371	
2,700.00	2,692.48	2,632.91	2,593.15	9.47	9.57	-81.993	-81.84	-328.81	424.27	405.92	18.36	23.114	
2,800.00	2,791.99	2,728.50	2,685.48	9.83	9.95	-82.383	-89.48	-352.34	453.50	434.44	19.05	23.802	
2,900.00	2,891.49	2,824.09	2,777.82	10.20	10.33	-82.725	-97.13	-375.87	482.74	462.98	19.75	24.441	
3,000.00	2,991.00	2,919.68	2,870.15	10.56	10.72	-83.028	-104.77	-399.40	511.99	491.54	20.45	25.036	
3,100.00	3,090.50	3,015.28	2,962.48	10.92	11.10	-83.299	-112.42	-422.93	541.26	520.11	21.15	25.591	
3,200.00	3,190.01	3,110.87	3,054.82	11.29	11.48	-83.542	-120.06	-446.46	570.53	548.68	21.85	26.110	
3,300.00	3,289.51	3,206.46	3,147.15	11.65	11.87	-83.761	-127.71	-469.99	599.82	577.27	22.55	26.596	
3,400.00	3,389.02	3,302.05	3,239.48	12.02	12.25	-83.960	-135.35	-493.51	629.11	605.86	23.26	27.053	
3,500.00	3,488.52	3,397.64	3,331.82	12.38	12.64	-84.141	-143.00	-517.04	658.41	634.45	23.96	27.482	
3,600.00	3,588.03	3,493.23	3,424.15	12.75	13.02	-84.307	-150.64	-540.57	687.72	663.06	24.66	27.886	
3,700.00	3,687.53	3,590.39	3,518.00	13.11	13.42	-84.476	-158.46	-564.47	717.01	691.63	25.38	28.251	
3,800.00	3,787.04	3,695.14	3,619.20	13.48	13.84	-84.826	-168.64	-589.53	745.53	719.37	26.17	28.493	
3,900.00	3,886.55	3,792.31	3,713.05	13.85	14.23	-85.194	-179.63	-612.15	773.35	746.46	26.88	28.767	
4,000.00	3,986.05	3,888.25	3,805.73	14.21	14.62	-85.526	-190.51	-634.48	801.18	773.59	27.59	29.039	
4,100.00	4,085.56	3,984.20	3,898.40	14.58	15.01	-85.836	-201.38	-656.80	829.03	800.73	28.30	29.297	
4,200.00	4,185.06	4,080.14	3,991.08	14.94	15.40	-86.126	-212.26	-679.12	856.90	827.90	29.01	29.543	
4,300.00	4,284.57	4,176.09	4,083.75	15.31	15.79	-86.398	-223.13	-701.45	884.80	855.09	29.71	29.777	
4,400.00	4,384.07	4,272.03	4,176.43	15.68	16.18	-86.653	-234.00	-723.77	912.71	882.29	30.42	30.001	
4,500.00	4,483.58	4,367.98	4,269.10	16.04	16.56	-86.893	-244.88	-746.10	940.64	909.51	31.13	30.214	
4,600.00	4,583.08	4,463.92	4,361.78	16.41	16.95	-87.120	-255.75	-768.42	968.59	936.75	31.84	30.418	
4,700.00	4,682.59	4,559.87	4,454.46	16.78	17.34	-87.333	-266.63	-790.75	996.55	963.99	32.55	30.614	
4,800.00	4,782.09	4,655.81	4,547.13	17.14	17.74	-87.535	-277.50	-813.07	1,024.52	991.26	33.26	30.801	
4,900.00	4,881.60	4,751.76	4,639.81	17.51	18.13	-87.727	-288.38	-835.40	1,052.50	1,018.53	33.97	30.980	

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

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

Survey Program: 0-MWD+IFR1+SAG+FDIR										Rule Assigned:				Offset Site Error:
Reference Offset										Distance				Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,000.00	4,981.10	4,847.70	4,732.48	17.88	18.52	-87.908	-299.25	-857.72	1,080.49	1,045.81	34.68	31.152		
5,100.00	5,080.61	4,943.64	4,825.16	18.24	18.91	-88.080	-310.13	-880.04	1,108.50	1,073.10	35.40	31.317		
5,200.00	5,180.11	5,039.59	4,917.83	18.61	19.30	-88.244	-321.00	-902.37	1,136.51	1,100.40	36.11	31.476		
5,300.00	5,279.62	5,135.53	5,010.51	18.98	19.69	-88.400	-331.88	-924.69	1,164.53	1,127.71	36.82	31.628		
5,400.00	5,379.12	5,231.48	5,103.18	19.34	20.08	-88.549	-342.75	-947.02	1,192.56	1,155.03	37.53	31.775		
5,500.00	5,478.63	5,327.42	5,195.86	19.71	20.47	-88.691	-353.63	-969.34	1,220.60	1,182.35	38.24	31.916		
5,600.00	5,578.14	5,423.37	5,288.54	20.08	20.87	-88.826	-364.50	-991.67	1,248.64	1,209.68	38.96	32.052		
5,700.00	5,677.64	5,519.31	5,381.21	20.44	21.26	-88.956	-375.38	-1,013.99	1,276.69	1,237.02	39.67	32.183		
5,800.00	5,777.15	5,615.26	5,473.89	20.81	21.65	-89.080	-386.25	-1,036.31	1,304.74	1,264.36	40.38	32.309		
5,900.00	5,876.65	5,711.20	5,566.56	21.18	22.04	-89.199	-397.13	-1,058.64	1,332.81	1,291.71	41.10	32.431		
6,000.00	5,976.16	5,807.15	5,659.24	21.54	22.43	-89.313	-408.00	-1,080.96	1,360.87	1,319.06	41.81	32.549		
6,100.00	6,075.66	5,903.09	5,751.91	21.91	22.83	-89.422	-418.88	-1,103.29	1,388.94	1,346.42	42.52	32.663		
6,200.00	6,175.17	5,999.04	5,844.59	22.28	23.22	-89.527	-429.75	-1,125.61	1,417.02	1,373.78	43.24	32.773		
6,300.00	6,274.67	6,113.79	5,955.53	22.65	23.69	-89.709	-442.59	-1,151.97	1,444.86	1,400.77	44.09	32.768		
6,400.00	6,374.18	6,261.39	6,099.30	23.01	24.27	-89.954	-457.20	-1,181.96	1,470.02	1,424.85	45.17	32.547		
6,456.91	6,430.81	6,346.54	6,182.80	23.22	24.61	-90.049	-464.52	-1,196.99	1,482.81	1,437.05	45.76	32.403		
6,500.00	6,473.70	6,411.55	6,246.77	23.38	24.86	-90.105	-469.56	-1,207.33	1,491.67	1,445.47	46.20	32.284		
6,600.00	6,573.35	6,564.06	6,397.57	23.75	25.42	-90.208	-479.51	-1,227.75	1,509.13	1,461.93	47.20	31.973		
6,700.00	6,673.13	6,718.46	6,551.04	24.11	25.98	-90.268	-486.88	-1,242.89	1,522.17	1,474.03	48.15	31.616		
6,800.00	6,773.02	6,874.20	6,706.41	24.47	26.52	-90.284	-491.56	-1,252.49	1,530.73	1,481.69	49.04	31.216		
6,900.00	6,872.97	7,030.71	6,862.84	24.82	27.03	-90.254	-493.47	-1,256.41	1,534.76	1,484.89	49.86	30.779		
7,000.00	6,972.96	7,140.82	6,972.96	25.18	27.38	-90.212	-493.51	-1,256.50	1,535.48	1,484.92	50.56	30.370		
7,027.04	7,000.00	7,167.86	7,000.00	25.27	27.46	-90.210	-493.51	-1,256.50	1,535.51	1,484.77	50.74	30.264		
7,100.00	7,072.96	7,240.82	7,072.96	25.51	27.69	-90.210	-493.51	-1,256.50	1,535.51	1,484.30	51.21	29.986		
7,200.00	7,172.96	7,340.82	7,172.96	25.83	28.00	-90.210	-493.51	-1,256.50	1,535.51	1,483.65	51.86	29.611		
7,300.00	7,272.96	7,440.82	7,272.96	26.16	28.31	-90.210	-493.51	-1,256.50	1,535.51	1,483.00	52.50	29.246		
7,400.00	7,372.96	7,540.82	7,372.96	26.48	28.62	-90.210	-493.51	-1,256.50	1,535.51	1,482.35	53.15	28.888		
7,500.00	7,472.96	7,640.82	7,472.96	26.81	28.94	-90.210	-493.51	-1,256.50	1,535.51	1,481.70	53.81	28.537		
7,600.00	7,572.96	7,740.82	7,572.96	27.14	29.25	-90.210	-493.51	-1,256.50	1,535.51	1,481.05	54.46	28.195		
7,700.00	7,672.96	7,840.82	7,672.96	27.47	29.57	-90.210	-493.51	-1,256.50	1,535.51	1,480.39	55.12	27.859		
7,800.00	7,772.96	7,940.82	7,772.96	27.79	29.88	-90.210	-493.51	-1,256.50	1,535.51	1,479.73	55.77	27.531		
7,900.00	7,872.96	8,040.82	7,872.96	28.12	30.20	-90.210	-493.51	-1,256.50	1,535.51	1,479.08	56.43	27.210		
8,000.00	7,972.96	8,140.82	7,972.96	28.46	30.52	-90.210	-493.51	-1,256.50	1,535.51	1,478.42	57.09	26.896		
8,100.00	8,072.96	8,240.82	8,072.96	28.79	30.84	-90.210	-493.51	-1,256.50	1,535.51	1,477.76	57.75	26.588		
8,200.00	8,172.96	8,340.82	8,172.96	29.12	31.16	-90.210	-493.51	-1,256.50	1,535.51	1,477.09	58.42	26.286		
8,300.00	8,272.96	8,440.82	8,272.96	29.45	31.48	-90.210	-493.51	-1,256.50	1,535.51	1,476.43	59.08	25.991		
8,310.00	8,282.96	8,450.82	8,282.96	29.48	31.52	-90.210	-493.51	-1,256.50	1,535.51	1,476.36	59.15	25.962		
8,400.00	8,372.96	8,540.16	8,372.13	29.78	31.80	-90.057	-489.41	-1,256.52	1,535.52	1,475.78	59.74	25.702		
8,500.00	8,472.96	8,635.39	8,465.30	30.12	32.09	-89.342	-470.25	-1,256.63	1,535.75	1,475.35	60.40	25.426		
8,600.00	8,572.96	8,722.21	8,546.43	30.45	32.32	-88.198	-439.57	-1,256.79	1,536.78	1,475.75	61.04	25.178		
8,700.00	8,672.96	8,800.00	8,614.45	30.79	32.51	-86.798	-401.94	-1,257.00	1,539.51	1,477.88	61.64	24.976		
8,800.00	8,772.96	8,863.39	8,665.69	31.12	32.64	-85.415	-364.69	-1,257.20	1,544.86	1,482.70	62.16	24.853		
8,900.00	8,872.96	8,918.33	8,706.55	31.46	32.73	-84.059	-327.99	-1,257.40	1,553.64	1,491.05	62.59	24.824		
9,000.00	8,972.96	8,964.53	8,738.06	31.80	32.80	-82.817	-294.22	-1,257.59	1,566.46	1,503.57	62.89	24.908		
9,100.00	9,072.96	9,000.00	8,760.35	32.13	32.84	-81.807	-266.63	-1,257.74	1,583.74	1,520.71	63.04	25.124		
9,196.08	9,169.04	9,035.21	8,780.74	32.46	32.88	-80.763	-237.94	-1,257.90	1,604.78	1,541.70	63.08	25.442		
9,200.00	9,172.96	9,036.40	8,781.40	32.47	32.88	-80.727	-236.94	-1,257.90	1,605.73	1,542.65	63.07	25.458		
9,250.00	9,222.88	9,050.00	8,788.77	32.64	32.89	-80.406	-225.52	-1,257.97	1,618.43	1,555.41	63.02	25.680		
9,300.00	9,272.39	9,068.41	8,798.32	32.80	32.91	-80.089	-209.78	-1,258.05	1,632.04	1,569.07	62.97	25.918		
9,350.00	9,321.11	9,085.28	8,806.62	32.96	32.92	-79.968	-195.10	-1,258.13	1,646.36	1,583.48	62.88	26.182		

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

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

Survey Program: 0-MWD+IFR1+SAG+FDIR										Rule Assigned:				Offset Site Error:
Reference Offset										Distance				Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,400.00	9,368.68	9,100.00	8,813.51	33.12	32.93	-80.061	-182.08	-1,258.20	1,661.21	1,598.45	62.76	26.469		
9,450.00	9,414.73	9,120.36	8,822.48	33.26	32.94	-80.114	-163.81	-1,258.30	1,676.40	1,613.74	62.65	26.757		
9,500.00	9,458.90	9,150.00	8,834.36	33.40	32.96	-79.992	-136.66	-1,258.45	1,691.83	1,629.25	62.59	27.032		
9,550.00	9,500.88	9,150.00	8,834.36	33.53	32.96	-80.981	-136.66	-1,258.45	1,707.11	1,644.76	62.35	27.377		
9,600.00	9,540.32	9,175.47	8,843.44	33.65	32.97	-81.243	-112.86	-1,258.58	1,722.24	1,659.98	62.26	27.663		
9,650.00	9,576.94	9,200.00	8,851.18	33.77	32.97	-81.644	-89.59	-1,258.71	1,737.09	1,674.93	62.16	27.946		
9,700.00	9,610.46	9,200.00	8,851.18	33.87	32.97	-82.990	-89.59	-1,258.71	1,751.54	1,689.59	61.95	28.272		
9,750.00	9,640.61	9,232.60	8,859.90	33.96	32.98	-83.305	-58.18	-1,258.88	1,765.17	1,703.25	61.91	28.511		
9,800.00	9,667.18	9,250.00	8,863.83	34.05	32.98	-84.226	-41.23	-1,258.98	1,778.19	1,716.36	61.82	28.763		
9,850.00	9,689.96	9,271.40	8,867.94	34.13	32.98	-85.076	-20.23	-1,259.09	1,790.36	1,728.60	61.77	28.986		
9,900.00	9,708.77	9,300.00	8,872.21	34.20	32.98	-85.725	8.04	-1,259.25	1,801.66	1,739.90	61.76	29.174		
9,950.00	9,723.48	9,300.00	8,872.21	34.27	32.98	-87.433	8.04	-1,259.25	1,811.90	1,750.21	61.70	29.368		
10,000.00	9,733.96	9,330.22	8,875.19	34.32	32.97	-88.097	38.11	-1,259.41	1,820.95	1,759.21	61.74	29.493		
10,050.00	9,740.15	9,350.00	8,876.27	34.37	32.97	-89.149	57.86	-1,259.52	1,828.91	1,767.12	61.79	29.597		
10,096.08	9,742.00	9,374.58	8,876.67	34.41	32.97	-89.896	82.44	-1,259.65	1,835.21	1,773.34	61.87	29.661		
10,100.00	9,742.00	9,374.58	8,876.67	34.41	32.97	-90.033	82.44	-1,259.65	1,835.69	1,773.81	61.88	29.666		
10,200.00	9,742.00	9,461.32	8,876.22	34.50	32.95	-90.473	169.17	-1,260.13	1,847.01	1,784.88	62.12	29.731		
10,300.00	9,742.00	9,560.90	8,875.69	34.62	32.94	-90.472	268.75	-1,260.67	1,855.31	1,792.91	62.40	29.733		
10,400.00	9,742.00	9,660.73	8,875.17	34.75	32.93	-90.472	368.58	-1,261.22	1,860.55	1,797.85	62.70	29.676		
10,500.00	9,742.00	9,760.70	8,874.65	34.91	32.93	-90.472	468.55	-1,261.77	1,862.70	1,799.69	63.01	29.560		
10,511.62	9,742.00	9,772.32	8,874.59	34.93	32.93	-90.472	480.16	-1,261.83	1,862.75	1,799.70	63.05	29.544		
10,600.00	9,742.00	9,860.70	8,874.12	35.09	32.94	-90.472	568.54	-1,262.32	1,862.97	1,799.61	63.36	29.404		
10,700.00	9,742.00	9,960.70	8,873.60	35.29	32.96	-90.472	668.54	-1,262.87	1,863.22	1,799.48	63.74	29.232		
10,800.00	9,742.00	10,060.70	8,873.08	35.51	33.01	-90.472	768.53	-1,263.41	1,863.47	1,799.31	64.16	29.045		
10,900.00	9,742.00	10,160.70	8,872.55	35.75	33.12	-90.472	868.53	-1,263.96	1,863.72	1,799.10	64.61	28.844		
11,000.00	9,742.00	10,260.69	8,872.03	36.00	33.30	-90.472	968.52	-1,264.51	1,863.97	1,798.86	65.11	28.630		
11,100.00	9,742.00	10,360.69	8,871.51	36.28	33.55	-90.472	1,068.52	-1,265.06	1,864.22	1,798.59	65.63	28.404		
11,200.00	9,742.00	10,460.69	8,870.98	36.58	33.83	-90.472	1,168.52	-1,265.60	1,864.47	1,798.28	66.19	28.168		
11,300.00	9,742.00	10,560.69	8,870.46	36.89	34.14	-90.473	1,268.51	-1,266.15	1,864.72	1,797.93	66.79	27.921		
11,400.00	9,742.00	10,660.69	8,869.94	37.22	34.48	-90.473	1,368.51	-1,266.70	1,864.97	1,797.56	67.41	27.666		
11,500.00	9,742.00	10,760.69	8,869.41	37.57	34.84	-90.473	1,468.50	-1,267.25	1,865.22	1,797.15	68.07	27.403		
11,600.00	9,742.00	10,860.69	8,868.89	37.93	35.22	-90.473	1,568.50	-1,267.80	1,865.47	1,796.71	68.75	27.133		
11,700.00	9,742.00	10,960.68	8,868.36	38.31	35.61	-90.473	1,668.49	-1,268.34	1,865.72	1,796.25	69.47	26.857		
11,800.00	9,742.00	11,060.68	8,867.84	38.71	36.03	-90.473	1,768.49	-1,268.89	1,865.97	1,795.75	70.21	26.576		
11,900.00	9,742.00	11,160.68	8,867.32	39.12	36.45	-90.473	1,868.49	-1,269.44	1,866.22	1,795.23	70.99	26.290		
12,000.00	9,742.00	11,260.68	8,866.79	39.55	36.90	-90.473	1,968.48	-1,269.99	1,866.47	1,794.69	71.78	26.001		
12,100.00	9,742.00	11,360.68	8,866.27	39.99	37.36	-90.473	2,068.48	-1,270.54	1,866.72	1,794.11	72.61	25.709		
12,200.00	9,742.00	11,460.68	8,865.75	40.44	37.83	-90.473	2,168.47	-1,271.08	1,866.97	1,793.51	73.46	25.416		
12,300.00	9,742.00	11,560.68	8,865.22	40.91	38.32	-90.474	2,268.47	-1,271.63	1,867.22	1,792.89	74.33	25.120		
12,400.00	9,742.00	11,660.68	8,864.70	41.39	38.82	-90.474	2,368.46	-1,272.18	1,867.47	1,792.25	75.23	24.824		
12,500.00	9,742.00	11,760.67	8,864.17	41.88	39.33	-90.474	2,468.46	-1,272.73	1,867.72	1,791.58	76.15	24.528		
12,600.00	9,742.00	11,860.67	8,863.65	42.39	39.86	-90.474	2,568.46	-1,273.28	1,867.97	1,790.89	77.09	24.232		
12,700.00	9,742.00	11,960.67	8,863.13	42.91	40.39	-90.474	2,668.45	-1,273.82	1,868.23	1,790.18	78.05	23.937		
12,800.00	9,742.00	12,060.67	8,862.60	43.43	40.94	-90.474	2,768.45	-1,274.37	1,868.48	1,789.45	79.03	23.643		
12,900.00	9,742.00	12,160.67	8,862.08	43.97	41.50	-90.474	2,868.44	-1,274.92	1,868.73	1,788.70	80.03	23.351		
13,000.00	9,742.00	12,260.67	8,861.56	44.52	42.07	-90.474	2,968.44	-1,275.47	1,868.98	1,787.93	81.05	23.061		
13,100.00	9,742.00	12,360.67	8,861.03	45.08	42.65	-90.474	3,068.43	-1,276.02	1,869.23	1,787.15	82.08	22.773		
13,200.00	9,742.00	12,460.66	8,860.51	45.65	43.24	-90.474	3,168.43	-1,276.56	1,869.48	1,786.35	83.14	22.487		
13,300.00	9,742.00	12,560.66	8,859.99	46.23	43.84	-90.474	3,268.43	-1,277.11	1,869.74	1,785.53	84.21	22.205		
13,400.00	9,742.00	12,660.66	8,859.46	46.81	44.45	-90.475	3,368.42	-1,277.66	1,869.99	1,784.70	85.29	21.925		
13,500.00	9,742.00	12,760.66	8,858.94	47.41	45.06	-90.475	3,468.42	-1,278.21	1,870.24	1,783.85	86.39	21.648		

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

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

Survey Program: 0-MWD+IFR1+SAG+FDIR													Offset Site Error: 0.00 usft
Reference Offset													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,600.00	9,742.00	12,860.66	8,858.41	48.01	45.68	-90.475	3,568.41	-1,278.75	1,870.49	1,782.99	87.51	21.375	
13,700.00	9,742.00	12,960.66	8,857.89	48.62	46.32	-90.475	3,668.41	-1,279.30	1,870.75	1,782.11	88.64	21.106	
13,800.00	9,742.00	13,060.66	8,857.37	49.24	46.96	-90.475	3,768.41	-1,279.85	1,871.00	1,781.22	89.78	20.840	
13,900.00	9,742.00	13,160.65	8,856.84	49.87	47.60	-90.475	3,868.40	-1,280.40	1,871.25	1,780.32	90.93	20.578	
14,000.00	9,742.00	13,260.65	8,856.32	50.50	48.25	-90.475	3,968.40	-1,280.95	1,871.50	1,779.40	92.10	20.320	
14,100.00	9,742.00	13,360.65	8,855.80	51.14	48.91	-90.475	4,068.39	-1,281.49	1,871.76	1,778.47	93.28	20.065	
14,200.00	9,742.00	13,460.65	8,855.27	51.79	49.58	-90.475	4,168.39	-1,282.04	1,872.01	1,777.53	94.47	19.815	
14,300.00	9,742.00	13,560.65	8,854.75	52.44	50.25	-90.475	4,268.38	-1,282.59	1,872.26	1,776.59	95.68	19.569	
14,400.00	9,742.00	13,660.65	8,854.23	53.10	50.93	-90.476	4,368.38	-1,283.14	1,872.52	1,775.63	96.89	19.326	
14,500.00	9,742.00	13,760.65	8,853.70	53.77	51.61	-90.476	4,468.38	-1,283.69	1,872.77	1,774.66	98.11	19.088	
14,600.00	9,742.00	13,860.65	8,853.18	54.44	52.30	-90.476	4,568.37	-1,284.23	1,873.02	1,773.68	99.35	18.853	
14,700.00	9,742.00	13,960.64	8,852.65	55.12	53.00	-90.476	4,668.37	-1,284.78	1,873.28	1,772.69	100.59	18.623	
14,800.00	9,742.00	14,060.64	8,852.13	55.80	53.70	-90.476	4,768.36	-1,285.33	1,873.53	1,771.69	101.84	18.396	
14,900.00	9,742.00	14,160.64	8,851.61	56.49	54.40	-90.476	4,868.36	-1,285.88	1,873.78	1,770.68	103.10	18.174	
15,000.00	9,742.00	14,260.64	8,851.08	57.18	55.11	-90.476	4,968.35	-1,286.43	1,874.04	1,769.67	104.37	17.955	
15,100.00	9,742.00	14,360.64	8,850.56	57.88	55.82	-90.476	5,068.35	-1,286.97	1,874.29	1,768.64	105.65	17.741	
15,200.00	9,742.00	14,460.64	8,850.04	58.58	56.54	-90.476	5,168.35	-1,287.52	1,874.55	1,767.61	106.93	17.530	
15,300.00	9,742.00	14,560.64	8,849.51	59.28	57.26	-90.476	5,268.34	-1,288.07	1,874.80	1,766.57	108.23	17.323	
15,400.00	9,742.00	14,660.63	8,848.99	59.99	57.99	-90.476	5,368.34	-1,288.62	1,875.05	1,765.53	109.53	17.120	
15,500.00	9,742.00	14,760.63	8,848.46	60.71	58.72	-90.477	5,468.33	-1,289.17	1,875.31	1,764.48	110.83	16.920	
15,600.00	9,742.00	14,860.63	8,847.94	61.42	59.45	-90.477	5,568.33	-1,289.71	1,875.56	1,763.42	112.15	16.724	
15,700.00	9,742.00	14,960.63	8,847.42	62.15	60.19	-90.477	5,668.32	-1,290.26	1,875.82	1,762.35	113.47	16.532	
15,800.00	9,742.00	15,060.63	8,846.89	62.87	60.93	-90.477	5,768.32	-1,290.81	1,876.07	1,761.28	114.79	16.343	
15,900.00	9,742.00	15,160.63	8,846.37	63.60	61.67	-90.477	5,868.32	-1,291.36	1,876.33	1,760.20	116.12	16.158	
16,000.00	9,742.00	15,260.63	8,845.85	64.33	62.42	-90.477	5,968.31	-1,291.90	1,876.58	1,759.12	117.46	15.976	
16,100.00	9,742.00	15,360.62	8,845.32	65.07	63.17	-90.477	6,068.31	-1,292.45	1,876.84	1,758.03	118.81	15.797	
16,200.00	9,742.00	15,460.62	8,844.80	65.81	63.92	-90.477	6,168.30	-1,293.00	1,877.09	1,756.94	120.16	15.622	
16,300.00	9,742.00	15,560.62	8,844.28	66.55	64.68	-90.477	6,268.30	-1,293.55	1,877.35	1,755.84	121.51	15.450	
16,400.00	9,742.00	15,660.62	8,843.75	67.29	65.44	-90.477	6,368.29	-1,294.10	1,877.60	1,754.73	122.87	15.281	
16,500.00	9,742.00	15,760.62	8,843.23	68.04	66.20	-90.477	6,468.29	-1,294.64	1,877.86	1,753.63	124.23	15.116	
16,600.00	9,742.00	15,860.62	8,842.70	68.79	66.96	-90.478	6,568.29	-1,295.19	1,878.11	1,752.51	125.60	14.953	
16,700.00	9,742.00	15,960.62	8,842.18	69.54	67.73	-90.478	6,668.28	-1,295.74	1,878.37	1,751.40	126.97	14.793	
16,800.00	9,742.00	16,060.62	8,841.66	70.30	68.50	-90.478	6,768.28	-1,296.29	1,878.63	1,750.27	128.35	14.637	
16,900.00	9,742.00	16,160.61	8,841.13	71.06	69.27	-90.478	6,868.27	-1,296.84	1,878.88	1,749.15	129.73	14.483	
17,000.00	9,742.00	16,260.61	8,840.61	71.82	70.04	-90.478	6,968.27	-1,297.38	1,879.14	1,748.02	131.12	14.332	
17,100.00	9,742.00	16,360.61	8,840.09	72.58	70.82	-90.478	7,068.27	-1,297.93	1,879.39	1,746.89	132.51	14.183	
17,200.00	9,742.00	16,460.61	8,839.56	73.35	71.60	-90.478	7,168.26	-1,298.48	1,879.65	1,745.75	133.90	14.037	
17,300.00	9,742.00	16,560.61	8,839.04	74.12	72.37	-90.478	7,268.26	-1,299.03	1,879.91	1,744.61	135.30	13.894	
17,400.00	9,742.00	16,660.61	8,838.52	74.89	73.16	-90.478	7,368.25	-1,299.58	1,880.16	1,743.46	136.70	13.754	
17,500.00	9,742.00	16,760.61	8,837.99	75.66	73.94	-90.478	7,468.25	-1,300.12	1,880.42	1,742.32	138.10	13.616	
17,600.00	9,742.00	16,860.60	8,837.47	76.43	74.73	-90.479	7,568.24	-1,300.67	1,880.68	1,741.17	139.51	13.480	
17,700.00	9,742.00	16,960.60	8,836.94	77.21	75.51	-90.479	7,668.24	-1,301.22	1,880.93	1,740.01	140.92	13.347	
17,800.00	9,742.00	17,060.60	8,836.42	77.99	76.30	-90.479	7,768.24	-1,301.77	1,881.19	1,738.85	142.34	13.216	
17,900.00	9,742.00	17,160.60	8,835.90	78.77	77.09	-90.479	7,868.23	-1,302.32	1,881.45	1,737.70	143.75	13.088	
18,000.00	9,742.00	17,260.60	8,835.37	79.55	77.88	-90.479	7,968.23	-1,302.86	1,881.71	1,736.53	145.17	12.962	
18,100.00	9,742.00	17,360.60	8,834.85	80.33	78.68	-90.479	8,068.22	-1,303.41	1,881.96	1,735.37	146.60	12.838	
18,200.00	9,742.00	17,460.60	8,834.33	81.12	79.47	-90.479	8,168.22	-1,303.96	1,882.22	1,734.20	148.02	12.716	
18,300.00	9,742.00	17,560.59	8,833.80	81.90	80.27	-90.479	8,268.21	-1,304.51	1,882.48	1,733.03	149.45	12.596	
18,400.00	9,742.00	17,660.59	8,833.28	82.69	81.07	-90.479	8,368.21	-1,305.05	1,882.74	1,731.86	150.88	12.478	
18,500.00	9,742.00	17,760.59	8,832.75	83.48	81.87	-90.479	8,468.21	-1,305.60	1,882.99	1,730.68	152.31	12.363	

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

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

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

Offset Site Error: 0.00 usft

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis		Azimuth from North (°)	Offset Wellbore Centre		Rule Assigned: Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
18,600.00	9,742.00	17,860.59	8,832.23	84.27	82.67	-90.479	8,568.20	-1,306.15	1,883.25	1,729.50	153.75	12.249	
18,700.00	9,742.00	17,960.59	8,831.71	85.07	83.47	-90.480	8,668.20	-1,306.70	1,883.51	1,728.32	155.18	12.137	
18,800.00	9,742.00	18,060.59	8,831.18	85.86	84.28	-90.480	8,768.19	-1,307.25	1,883.77	1,727.14	156.62	12.027	
18,900.00	9,742.00	18,160.59	8,830.66	86.66	85.08	-90.480	8,868.19	-1,307.79	1,884.03	1,725.96	158.07	11.919	
19,000.00	9,742.00	18,260.58	8,830.14	87.46	85.89	-90.480	8,968.18	-1,308.34	1,884.28	1,724.77	159.51	11.813	
19,100.00	9,742.00	18,360.58	8,829.61	88.25	86.69	-90.480	9,068.18	-1,308.89	1,884.54	1,723.59	160.96	11.708	
19,200.00	9,742.00	18,460.58	8,829.09	89.05	87.50	-90.480	9,168.18	-1,309.44	1,884.80	1,722.40	162.40	11.606	
19,300.00	9,742.00	18,560.58	8,828.57	89.85	88.31	-90.480	9,268.17	-1,309.99	1,885.06	1,721.21	163.85	11.504	
19,400.00	9,742.00	18,660.58	8,828.04	90.66	89.12	-90.480	9,368.17	-1,310.53	1,885.32	1,720.01	165.31	11.405	
19,500.00	9,742.00	18,760.58	8,827.52	91.46	89.94	-90.480	9,468.16	-1,311.08	1,885.58	1,718.82	166.76	11.307	
19,600.00	9,742.00	18,860.58	8,826.99	92.26	90.75	-90.480	9,568.16	-1,311.63	1,885.84	1,717.62	168.22	11.211	
19,700.00	9,742.00	18,960.58	8,826.47	93.07	91.56	-90.481	9,668.15	-1,312.18	1,886.10	1,716.42	169.67	11.116	
19,800.00	9,742.00	19,060.57	8,825.95	93.88	92.38	-90.481	9,768.15	-1,312.73	1,886.36	1,715.22	171.13	11.023	
19,900.00	9,742.00	19,160.57	8,825.42	94.69	93.19	-90.481	9,868.15	-1,313.27	1,886.61	1,714.02	172.59	10.931	
20,000.00	9,742.00	19,260.57	8,824.90	95.49	94.01	-90.481	9,968.14	-1,313.82	1,886.87	1,712.82	174.05	10.841	
20,032.45	9,742.00	19,292.97	8,824.73	95.76	94.27	-90.483	10,000.54	-1,314.00	1,886.96	1,712.43	174.53	10.812	

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference 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

Offset Well Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR		Reference Offset		Semi Major Axis		Azimuth from North (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	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	
600.00	600.00	600.00	600.00	2.06	2.06	45.000	25.00	25.00	35.36	31.24	4.11	8.599	
700.00	700.00	700.00	700.00	2.41	2.41	45.000	25.00	25.00	35.36	30.53	4.83	7.322	
800.00	800.00	800.00	800.00	2.77	2.77	45.000	25.00	25.00	35.36	29.81	5.55	6.375 CC	
900.00	899.99	899.99	899.99	3.11	3.13	43.645	25.00	25.00	35.59	29.35	6.25	5.699 ES	
1,000.00	999.96	999.96	999.96	3.45	3.49	39.696	25.00	25.00	36.43	29.49	6.94	5.253	
1,100.00	1,099.86	1,099.86	1,099.86	3.78	3.85	33.554	25.00	25.00	38.18	30.55	7.63	5.004	
1,200.00	1,199.68	1,199.68	1,199.68	4.12	4.21	25.961	25.00	25.00	41.28	32.95	8.33	4.957	
1,300.00	1,299.37	1,299.37	1,299.37	4.47	4.56	17.887	25.00	25.00	46.16	37.13	9.03	5.112	
1,370.13	1,369.19	1,369.19	1,369.19	4.71	4.81	12.426	25.00	25.00	50.79	41.27	9.52	5.335	
1,400.00	1,398.91	1,398.91	1,398.91	4.81	4.92	10.273	25.00	25.00	53.03	43.30	9.73	5.449	
1,500.00	1,498.42	1,498.42	1,498.42	5.16	5.28	4.257	25.00	25.00	60.97	50.54	10.43	5.844	
1,600.00	1,597.92	1,599.11	1,599.11	5.51	5.62	-0.287	24.15	25.06	68.58	57.46	11.12	6.166	
1,700.00	1,697.43	1,700.08	1,700.04	5.87	5.95	-3.900	21.52	25.25	74.79	62.99	11.80	6.339	
1,800.00	1,796.93	1,801.24	1,801.11	6.22	6.28	-7.015	17.10	25.58	79.48	67.01	12.48	6.371	
1,900.00	1,896.44	1,902.54	1,902.21	6.58	6.62	-9.902	10.90	26.03	82.63	69.48	13.15	6.282	
2,000.00	1,995.94	2,003.91	2,003.26	6.94	6.96	-12.754	2.91	26.61	84.22	70.39	13.83	6.088	
2,100.00	2,095.45	2,105.21	2,104.08	7.30	7.30	-15.740	-6.85	27.32	84.29	69.77	14.51	5.807	
2,200.00	2,194.95	2,205.11	2,203.43	7.66	7.64	-18.837	-17.27	28.08	83.80	68.59	15.21	5.511	
2,300.00	2,294.46	2,305.00	2,302.78	8.02	7.98	-21.959	-27.68	28.84	83.56	67.66	15.90	5.255	
2,347.87	2,342.09	2,352.82	2,350.34	8.19	8.14	-23.457	-32.67	29.20	83.53	67.30	16.23	5.145	
2,400.00	2,393.97	2,404.90	2,402.13	8.38	8.32	-25.089	-38.10	29.60	83.56	66.97	16.60	5.035	
2,500.00	2,493.47	2,504.80	2,501.48	8.74	8.67	-28.208	-48.52	30.35	83.82	66.52	17.30	4.845	
2,600.00	2,592.98	2,604.69	2,600.83	9.11	9.02	-31.298	-58.94	31.11	84.31	66.31	18.00	4.684	
2,700.00	2,692.48	2,704.59	2,700.18	9.47	9.37	-34.342	-69.35	31.87	85.05	66.34	18.71	4.546	
2,800.00	2,791.99	2,804.49	2,799.53	9.83	9.72	-37.324	-79.77	32.63	86.02	66.60	19.42	4.430	
2,900.00	2,891.49	2,904.38	2,898.88	10.20	10.07	-40.230	-90.19	33.39	87.22	67.09	20.13	4.333	
3,000.00	2,991.00	3,004.28	2,998.23	10.56	10.42	-43.049	-100.61	34.15	88.63	67.79	20.84	4.253	
3,100.00	3,090.50	3,104.18	3,097.58	10.92	10.78	-45.771	-111.02	34.91	90.25	68.70	21.56	4.187	
3,200.00	3,190.01	3,204.07	3,196.92	11.29	11.13	-48.391	-121.44	35.67	92.07	69.80	22.27	4.134	
3,300.00	3,289.51	3,303.97	3,296.27	11.65	11.49	-50.903	-131.86	36.42	94.07	71.08	22.99	4.091	
3,400.00	3,389.02	3,403.87	3,395.62	12.02	11.85	-53.304	-142.28	37.18	96.25	72.53	23.71	4.059	
3,500.00	3,488.52	3,503.76	3,494.97	12.38	12.21	-55.595	-152.69	37.94	98.58	74.15	24.44	4.034	
3,600.00	3,588.03	3,603.66	3,594.32	12.75	12.56	-57.775	-163.11	38.70	101.07	75.91	25.16	4.017	
3,700.00	3,687.53	3,703.56	3,693.67	13.11	12.92	-59.847	-173.53	39.46	103.70	77.81	25.89	4.006	
3,800.00	3,787.04	3,803.45	3,793.02	13.48	13.28	-61.814	-183.95	40.22	106.45	79.84	26.62	4.000	
3,900.00	3,886.55	3,903.35	3,892.37	13.85	13.64	-63.678	-194.36	40.98	109.33	81.99	27.34	3.998	
4,000.00	3,986.05	4,003.25	3,991.72	14.21	14.00	-65.445	-204.78	41.74	112.32	84.24	28.07	4.001	
4,100.00	4,085.56	4,103.14	4,091.07	14.58	14.37	-67.118	-215.20	42.49	115.40	86.60	28.80	4.007	
4,200.00	4,185.06	4,203.04	4,190.42	14.94	14.73	-68.702	-225.62	43.25	118.59	89.05	29.53	4.015	
4,300.00	4,284.57	4,302.94	4,289.76	15.31	15.09	-70.202	-236.03	44.01	121.85	91.59	30.26	4.026	
4,400.00	4,384.07	4,402.83	4,389.11	15.68	15.45	-71.623	-246.45	44.77	125.20	94.21	31.00	4.039	
4,500.00	4,483.58	4,502.73	4,488.46	16.04	15.81	-72.968	-256.87	45.53	128.62	96.89	31.73	4.054	
4,600.00	4,583.08	4,602.63	4,587.81	16.41	16.18	-74.243	-267.29	46.29	132.11	99.65	32.46	4.070	
4,700.00	4,682.59	4,702.52	4,687.16	16.78	16.54	-75.452	-277.71	47.05	135.66	102.47	33.19	4.087	
4,800.00	4,782.09	4,802.42	4,786.51	17.14	16.90	-76.598	-288.12	47.81	139.27	105.35	33.93	4.105	

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

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

Survey Program: 0-MWD+IFR1+SAG+FDIR													Offset Site Error: 0.00 usft
Reference Offset													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,881.60	4,902.32	4,885.86	17.51	17.27	-77.685	-298.54	48.56	142.94	108.28	34.66	4.124	
5,000.00	4,981.10	5,002.21	4,985.21	17.88	17.63	-78.718	-308.96	49.32	146.65	111.25	35.39	4.143	
5,100.00	5,080.61	5,102.11	5,084.56	18.24	17.99	-79.700	-319.38	50.08	150.41	114.28	36.13	4.163	
5,200.00	5,180.11	5,202.01	5,183.91	18.61	18.36	-80.633	-329.79	50.84	154.21	117.35	36.86	4.184	
5,300.00	5,279.62	5,301.90	5,283.26	18.98	18.72	-81.521	-340.21	51.60	158.04	120.45	37.59	4.204	
5,400.00	5,379.12	5,401.80	5,382.61	19.34	19.09	-82.367	-350.63	52.36	161.92	123.59	38.33	4.225	
5,500.00	5,478.63	5,501.70	5,481.95	19.71	19.45	-83.173	-361.05	53.12	165.83	126.77	39.06	4.245	
5,600.00	5,578.14	5,601.59	5,581.30	20.08	19.82	-83.942	-371.46	53.88	169.77	129.98	39.80	4.266	
5,700.00	5,677.64	5,701.49	5,680.65	20.44	20.18	-84.675	-381.88	54.63	173.74	133.21	40.53	4.287	
5,800.00	5,777.15	5,801.39	5,780.00	20.81	20.55	-85.376	-392.30	55.39	177.74	136.48	41.26	4.307	
5,900.00	5,876.65	5,901.28	5,879.35	21.18	20.91	-86.046	-402.72	56.15	181.77	139.77	42.00	4.328	
6,000.00	5,976.16	6,001.18	5,978.70	21.54	21.28	-86.686	-413.13	56.91	185.81	143.08	42.73	4.348	
6,100.00	6,075.66	6,101.08	6,078.05	21.91	21.64	-87.300	-423.55	57.67	189.88	146.42	43.47	4.368	
6,200.00	6,175.17	6,200.97	6,177.40	22.28	22.01	-87.887	-433.97	58.43	193.98	149.77	44.20	4.388	
6,300.00	6,274.67	6,300.87	6,276.75	22.65	22.38	-88.450	-444.39	59.19	198.09	153.15	44.94	4.408	
6,400.00	6,374.18	6,400.77	6,376.10	23.01	22.74	-88.990	-454.80	59.95	202.22	156.55	45.67	4.428	
6,456.91	6,430.81	6,457.52	6,432.55	23.22	22.95	-89.260	-460.64	60.37	204.58	158.50	46.09	4.439	
6,500.00	6,473.70	6,500.44	6,475.27	23.38	23.11	-89.407	-464.72	60.67	206.32	159.92	46.40	4.446	
6,600.00	6,573.35	6,600.00	6,574.49	23.75	23.47	-89.694	-472.95	61.27	209.84	162.71	47.13	4.452	
6,700.00	6,673.13	6,699.76	6,674.03	24.11	23.83	-89.918	-479.47	61.74	212.63	164.77	47.85	4.443	
6,800.00	6,773.02	6,799.47	6,773.62	24.47	24.19	-90.078	-484.27	62.09	214.68	166.10	48.57	4.420	
6,900.00	6,872.97	6,899.19	6,873.30	24.82	24.54	-90.179	-487.33	62.32	215.99	166.70	49.28	4.382	
7,000.00	6,972.96	6,998.93	6,973.03	25.18	24.90	-90.223	-488.67	62.41	216.56	166.56	49.99	4.332	
7,027.04	7,000.00	7,025.90	7,000.00	25.27	24.99	-90.225	-488.73	62.42	216.58	166.41	50.18	4.316	
7,100.00	7,072.96	7,098.86	7,072.96	25.51	25.23	-90.225	-488.73	62.42	216.58	165.93	50.65	4.276	
7,200.00	7,172.96	7,198.86	7,172.96	25.83	25.56	-90.225	-488.73	62.42	216.58	165.28	51.30	4.222	
7,300.00	7,272.96	7,298.86	7,272.96	26.16	25.89	-90.225	-488.73	62.42	216.58	164.63	51.96	4.168	
7,400.00	7,372.96	7,398.86	7,372.96	26.48	26.22	-90.225	-488.73	62.42	216.58	163.97	52.61	4.116	
7,500.00	7,472.96	7,498.86	7,472.96	26.81	26.55	-90.225	-488.73	62.42	216.58	163.31	53.27	4.066	
7,600.00	7,572.96	7,598.86	7,572.96	27.14	26.88	-90.225	-488.73	62.42	216.58	162.65	53.93	4.016	
7,700.00	7,672.96	7,698.86	7,672.96	27.47	27.21	-90.225	-488.73	62.42	216.58	161.99	54.59	3.967	
7,800.00	7,772.96	7,798.86	7,772.96	27.79	27.54	-90.225	-488.73	62.42	216.58	161.33	55.25	3.920	
7,900.00	7,872.96	7,898.86	7,872.96	28.12	27.88	-90.225	-488.73	62.42	216.58	160.67	55.92	3.873	
8,000.00	7,972.96	7,998.86	7,972.96	28.46	28.21	-90.225	-488.73	62.42	216.58	160.00	56.58	3.828	
8,100.00	8,072.96	8,098.86	8,072.96	28.79	28.54	-90.225	-488.73	62.42	216.58	159.34	57.25	3.783	
8,200.00	8,172.96	8,198.86	8,172.96	29.12	28.88	-90.225	-488.73	62.42	216.58	158.67	57.92	3.740	
8,300.00	8,272.96	8,298.86	8,272.96	29.45	29.22	-90.225	-488.73	62.42	216.58	158.00	58.58	3.697	
8,303.11	8,276.07	8,301.97	8,276.07	29.46	29.23	-90.225	-488.73	62.42	216.58	157.98	58.61	3.696	
8,400.00	8,372.96	8,398.70	8,372.72	29.78	29.55	-89.626	-486.47	62.40	216.60	157.35	59.25	3.656	
8,500.00	8,472.96	8,495.41	8,467.88	30.12	29.86	-85.231	-469.80	62.31	217.50	157.68	59.82	3.636 SF	
8,600.00	8,572.96	8,584.29	8,551.72	30.45	30.13	-77.697	-440.59	62.15	222.96	162.90	60.06	3.712	
8,700.00	8,672.96	8,662.60	8,621.08	30.79	30.35	-68.956	-404.37	61.96	238.27	178.88	59.39	4.012	
8,800.00	8,772.96	8,729.73	8,676.15	31.12	30.53	-60.716	-366.04	61.75	267.24	209.77	57.47	4.650	
8,900.00	8,872.96	8,786.44	8,718.91	31.46	30.66	-53.817	-328.82	61.54	310.35	255.69	54.66	5.678	
9,000.00	8,972.96	8,834.11	8,751.86	31.80	30.77	-48.364	-294.40	61.35	365.64	314.00	51.63	7.081	
9,100.00	9,072.96	8,874.21	8,777.28	32.13	30.86	-44.137	-263.40	61.18	430.42	381.56	48.85	8.811	
9,196.08	9,169.04	8,900.00	8,792.47	32.46	30.91	-41.615	-242.55	61.07	499.49	453.26	46.22	10.806	
9,200.00	9,172.96	8,900.00	8,792.47	32.47	30.91	-41.617	-242.55	61.07	502.44	456.36	46.08	10.904	
9,250.00	9,222.88	8,924.20	8,805.85	32.64	30.96	-39.708	-222.39	60.96	539.23	493.77	45.46	11.861	
9,300.00	9,272.39	8,950.00	8,819.16	32.80	31.01	-38.261	-200.29	60.84	575.35	530.43	44.92	12.809	

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference 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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
9,350.00	9,321.11	8,950.00	8,819.16	32.96	31.01	-39.593	-200.29	60.84	610.10	566.84	43.27	14.101			
9,400.00	9,368.68	8,975.84	8,831.48	33.12	31.06	-39.101	-177.58	60.71	643.37	600.60	42.77	15.044			
9,450.00	9,414.73	9,000.00	8,842.06	33.26	31.10	-39.203	-155.86	60.60	675.21	633.02	42.20	16.001			
9,500.00	9,458.90	9,000.00	8,842.06	33.40	31.10	-42.076	-155.86	60.60	705.44	664.61	40.83	17.276			
9,550.00	9,500.88	9,031.01	8,854.29	33.53	31.15	-42.380	-127.37	60.44	733.40	692.84	40.55	18.085			
9,600.00	9,540.32	9,050.00	8,861.01	33.65	31.18	-44.361	-109.61	60.34	759.62	719.69	39.93	19.024			
9,650.00	9,576.94	9,069.11	8,867.17	33.77	31.21	-46.838	-91.53	60.24	783.78	744.41	39.37	19.910			
9,700.00	9,610.46	9,100.00	8,875.85	33.87	31.25	-48.359	-61.88	60.08	805.99	766.87	39.12	20.600			
9,750.00	9,640.61	9,100.00	8,875.85	33.96	31.25	-54.479	-61.88	60.08	825.70	787.38	38.32	21.547			
9,800.00	9,667.18	9,127.53	8,882.23	34.05	31.29	-57.428	-35.10	59.93	843.16	805.03	38.13	22.112			
9,850.00	9,689.96	9,150.00	8,886.47	34.13	31.32	-61.592	-13.04	59.81	858.40	820.47	37.93	22.632			
9,900.00	9,708.77	9,167.05	8,889.12	34.20	31.34	-67.154	3.80	59.72	871.27	833.52	37.75	23.078			
9,950.00	9,723.48	9,200.00	8,892.80	34.27	31.38	-70.262	36.54	59.54	882.01	844.21	37.80	23.334			
10,000.00	9,733.96	9,200.00	8,892.80	34.32	31.38	-79.741	36.54	59.54	889.92	852.15	37.77	23.561			
10,050.00	9,740.15	9,226.77	8,894.40	34.37	31.41	-84.279	63.26	59.40	895.52	857.55	37.97	23.586			
10,096.08	9,742.00	9,249.73	8,894.78	34.41	31.43	-88.715	86.22	59.27	898.61	860.39	38.22	23.511			
10,100.00	9,742.00	9,249.73	8,894.78	34.41	31.43	-89.458	86.22	59.27	898.77	860.52	38.25	23.497			
10,200.00	9,742.00	9,341.49	8,894.46	34.50	31.53	-90.856	177.98	58.77	903.35	864.60	38.74	23.316			
10,300.00	9,742.00	9,441.07	8,894.12	34.62	31.66	-90.841	277.55	58.22	906.87	867.72	39.15	23.164			
10,400.00	9,742.00	9,540.91	8,893.77	34.75	31.82	-90.832	377.39	57.68	909.21	869.72	39.49	23.024			
10,500.00	9,742.00	9,640.88	8,893.42	34.91	32.00	-90.829	477.35	57.13	910.31	870.55	39.76	22.894			
10,511.62	9,742.00	9,652.50	8,893.38	34.93	32.02	-90.829	488.97	57.07	910.36	870.57	39.79	22.880			
10,600.00	9,742.00	9,740.88	8,893.07	35.09	32.20	-90.829	577.35	56.58	910.65	870.65	40.00	22.765			
10,700.00	9,742.00	9,840.88	8,892.72	35.29	32.42	-90.829	677.35	56.03	910.98	870.71	40.27	22.623			
10,800.00	9,742.00	9,940.88	8,892.37	35.51	32.66	-90.829	777.35	55.49	911.30	870.75	40.56	22.469			
10,900.00	9,742.00	10,040.88	8,892.02	35.75	32.93	-90.829	877.34	54.94	911.63	870.76	40.87	22.303			
11,000.00	9,742.00	10,140.87	8,891.67	36.00	33.21	-90.830	977.34	54.39	911.96	870.74	41.21	22.127			
11,100.00	9,742.00	10,240.87	8,891.33	36.28	33.52	-90.830	1,077.34	53.85	912.29	870.71	41.58	21.941			
11,200.00	9,742.00	10,340.87	8,890.98	36.58	33.85	-90.830	1,177.34	53.30	912.61	870.65	41.97	21.746			
11,300.00	9,742.00	10,440.87	8,890.63	36.89	34.19	-90.830	1,277.33	52.75	912.94	870.56	42.38	21.544			
11,400.00	9,742.00	10,540.87	8,890.28	37.22	34.55	-90.830	1,377.33	52.20	913.27	870.46	42.81	21.334			
11,500.00	9,742.00	10,640.87	8,889.93	37.57	34.93	-90.831	1,477.33	51.66	913.60	870.33	43.26	21.118			
11,600.00	9,742.00	10,740.87	8,889.58	37.93	35.33	-90.831	1,577.32	51.11	913.92	870.19	43.73	20.897			
11,700.00	9,742.00	10,840.87	8,889.23	38.31	35.74	-90.831	1,677.32	50.56	914.25	870.02	44.23	20.672			
11,800.00	9,742.00	10,940.87	8,888.88	38.71	36.17	-90.831	1,777.32	50.01	914.58	869.84	44.74	20.442			
11,900.00	9,742.00	11,040.87	8,888.53	39.12	36.62	-90.831	1,877.32	49.47	914.91	869.63	45.27	20.210			
12,000.00	9,742.00	11,140.87	8,888.18	39.55	37.08	-90.832	1,977.31	48.92	915.23	869.41	45.82	19.975			
12,100.00	9,742.00	11,240.87	8,887.83	39.99	37.56	-90.832	2,077.31	48.37	915.56	869.18	46.38	19.739			
12,200.00	9,742.00	11,340.87	8,887.49	40.44	38.04	-90.832	2,177.31	47.82	915.89	868.92	46.97	19.501			
12,300.00	9,742.00	11,440.87	8,887.14	40.91	38.55	-90.832	2,277.31	47.28	916.21	868.65	47.56	19.263			
12,400.00	9,742.00	11,540.87	8,886.79	41.39	39.06	-90.832	2,377.30	46.73	916.54	868.36	48.18	19.024			
12,500.00	9,742.00	11,640.87	8,886.44	41.88	39.59	-90.833	2,477.30	46.18	916.87	868.06	48.81	18.786			
12,600.00	9,742.00	11,740.86	8,886.09	42.39	40.13	-90.833	2,577.30	45.64	917.20	867.75	49.45	18.549			
12,700.00	9,742.00	11,840.86	8,885.74	42.91	40.68	-90.833	2,677.29	45.09	917.53	867.42	50.10	18.312			
12,800.00	9,742.00	11,940.86	8,885.39	43.43	41.24	-90.833	2,777.29	44.54	917.85	867.08	50.77	18.078			
12,900.00	9,742.00	12,040.86	8,885.04	43.97	41.81	-90.833	2,877.29	43.99	918.18	866.73	51.45	17.845			
13,000.00	9,742.00	12,140.86	8,884.69	44.52	42.39	-90.834	2,977.29	43.45	918.51	866.36	52.15	17.614			
13,100.00	9,742.00	12,240.86	8,884.34	45.08	42.99	-90.834	3,077.28	42.90	918.84	865.98	52.85	17.385			
13,200.00	9,742.00	12,340.86	8,884.00	45.65	43.59	-90.834	3,177.28	42.35	919.16	865.59	53.57	17.159			
13,300.00	9,742.00	12,440.86	8,883.65	46.23	44.20	-90.834	3,277.28	41.80	919.49	865.20	54.29	16.935			
13,400.00	9,742.00	12,540.86	8,883.30	46.81	44.81	-90.834	3,377.28	41.26	919.82	864.79	55.03	16.714			

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

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

Survey Program: 0-MWD+IFR1+SAG+FDIR										Rule Assigned:				Offset Site Error:
Reference Offset										Distance				Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
13,500.00	9,742.00	12,640.86	8,882.95	47.41	45.44	-90.835	3,477.27	40.71	920.15	864.37	55.78	16.496		
13,600.00	9,742.00	12,740.86	8,882.60	48.01	46.07	-90.835	3,577.27	40.16	920.47	863.94	56.53	16.282		
13,700.00	9,742.00	12,840.86	8,882.25	48.62	46.72	-90.835	3,677.27	39.61	920.80	863.50	57.30	16.070		
13,800.00	9,742.00	12,940.86	8,881.90	49.24	47.37	-90.835	3,777.26	39.07	921.13	863.06	58.07	15.862		
13,900.00	9,742.00	13,040.86	8,881.55	49.87	48.02	-90.835	3,877.26	38.52	921.46	862.60	58.86	15.656		
14,000.00	9,742.00	13,140.86	8,881.20	50.50	48.68	-90.836	3,977.26	37.97	921.78	862.14	59.64	15.455		
14,100.00	9,742.00	13,240.86	8,880.85	51.14	49.35	-90.836	4,077.26	37.43	922.11	861.67	60.44	15.256		
14,200.00	9,742.00	13,340.86	8,880.50	51.79	50.03	-90.836	4,177.25	36.88	922.44	861.19	61.25	15.061		
14,300.00	9,742.00	13,440.85	8,880.16	52.44	50.71	-90.836	4,277.25	36.33	922.77	860.71	62.06	14.869		
14,400.00	9,742.00	13,540.85	8,879.81	53.10	51.39	-90.837	4,377.25	35.78	923.10	860.22	62.88	14.681		
14,500.00	9,742.00	13,640.85	8,879.46	53.77	52.09	-90.837	4,477.25	35.24	923.42	859.72	63.70	14.496		
14,600.00	9,742.00	13,740.85	8,879.11	54.44	52.78	-90.837	4,577.24	34.69	923.75	859.22	64.53	14.314		
14,700.00	9,742.00	13,840.85	8,878.76	55.12	53.49	-90.837	4,677.24	34.14	924.08	858.71	65.37	14.136		
14,800.00	9,742.00	13,940.85	8,878.41	55.80	54.19	-90.837	4,777.24	33.59	924.41	858.19	66.21	13.961		
14,900.00	9,742.00	14,040.85	8,878.06	56.49	54.90	-90.838	4,877.23	33.05	924.74	857.67	67.06	13.789		
15,000.00	9,742.00	14,140.85	8,877.71	57.18	55.62	-90.838	4,977.23	32.50	925.06	857.15	67.92	13.620		
15,100.00	9,742.00	14,240.85	8,877.36	57.88	56.34	-90.838	5,077.23	31.95	925.39	856.61	68.78	13.455		
15,200.00	9,742.00	14,340.85	8,877.01	58.58	57.06	-90.838	5,177.23	31.41	925.72	856.08	69.64	13.293		
15,300.00	9,742.00	14,440.85	8,876.67	59.28	57.79	-90.838	5,277.22	30.86	926.05	855.54	70.51	13.134		
15,400.00	9,742.00	14,540.85	8,876.32	59.99	58.52	-90.839	5,377.22	30.31	926.38	854.99	71.38	12.978		
15,500.00	9,742.00	14,640.85	8,875.97	60.71	59.26	-90.839	5,477.22	29.76	926.70	854.44	72.26	12.825		
15,600.00	9,742.00	14,740.85	8,875.62	61.42	60.00	-90.839	5,577.22	29.22	927.03	853.89	73.14	12.674		
15,700.00	9,742.00	14,840.85	8,875.27	62.15	60.74	-90.839	5,677.21	28.67	927.36	853.33	74.03	12.527		
15,800.00	9,742.00	14,940.85	8,874.92	62.87	61.49	-90.839	5,777.21	28.12	927.69	852.77	74.92	12.383		
15,900.00	9,742.00	15,040.84	8,874.57	63.60	62.24	-90.840	5,877.21	27.57	928.02	852.20	75.81	12.241		
16,000.00	9,742.00	15,140.84	8,874.22	64.33	62.99	-90.840	5,977.20	27.03	928.34	851.64	76.71	12.102		
16,100.00	9,742.00	15,240.84	8,873.87	65.07	63.74	-90.840	6,077.20	26.48	928.67	851.06	77.61	11.966		
16,200.00	9,742.00	15,340.84	8,873.52	65.81	64.50	-90.840	6,177.20	25.93	929.00	850.49	78.51	11.832		
16,300.00	9,742.00	15,440.84	8,873.18	66.55	65.26	-90.840	6,277.20	25.38	929.33	849.91	79.42	11.701		
16,400.00	9,742.00	15,540.84	8,872.83	67.29	66.02	-90.841	6,377.19	24.84	929.66	849.33	80.33	11.573		
16,500.00	9,742.00	15,640.84	8,872.48	68.04	66.79	-90.841	6,477.19	24.29	929.98	848.74	81.24	11.447		
16,600.00	9,742.00	15,740.84	8,872.13	68.79	67.56	-90.841	6,577.19	23.74	930.31	848.15	82.16	11.323		
16,700.00	9,742.00	15,840.84	8,871.78	69.54	68.33	-90.841	6,677.19	23.20	930.64	847.56	83.08	11.202		
16,800.00	9,742.00	15,940.84	8,871.43	70.30	69.10	-90.841	6,777.18	22.65	930.97	846.97	84.00	11.083		
16,900.00	9,742.00	16,040.84	8,871.08	71.06	69.88	-90.842	6,877.18	22.10	931.30	846.37	84.93	10.966		
17,000.00	9,742.00	16,140.84	8,870.73	71.82	70.65	-90.842	6,977.18	21.55	931.63	845.77	85.85	10.852		
17,100.00	9,742.00	16,240.84	8,870.38	72.58	71.43	-90.842	7,077.17	21.01	931.95	845.17	86.78	10.739		
17,200.00	9,742.00	16,340.84	8,870.03	73.35	72.22	-90.842	7,177.17	20.46	932.28	844.57	87.71	10.629		
17,300.00	9,742.00	16,440.84	8,869.68	74.12	73.00	-90.842	7,277.17	19.91	932.61	843.96	88.65	10.521		
17,400.00	9,742.00	16,540.84	8,869.34	74.89	73.78	-90.843	7,377.17	19.36	932.94	843.36	89.58	10.414		
17,500.00	9,742.00	16,640.84	8,868.99	75.66	74.57	-90.843	7,477.16	18.82	933.27	842.75	90.52	10.310		
17,600.00	9,742.00	16,740.83	8,868.64	76.43	75.36	-90.843	7,577.16	18.27	933.60	842.13	91.46	10.208		
17,700.00	9,742.00	16,840.83	8,868.29	77.21	76.15	-90.843	7,677.16	17.72	933.92	841.52	92.40	10.107		
17,800.00	9,742.00	16,940.83	8,867.94	77.99	76.94	-90.843	7,777.16	17.17	934.25	840.90	93.35	10.008		
17,900.00	9,742.00	17,040.83	8,867.59	78.77	77.74	-90.844	7,877.15	16.63	934.58	840.29	94.29	9.911		
18,000.00	9,742.00	17,140.83	8,867.24	79.55	78.53	-90.844	7,977.15	16.08	934.91	839.67	95.24	9.816		
18,100.00	9,742.00	17,240.83	8,866.89	80.33	79.33	-90.844	8,077.15	15.53	935.24	839.05	96.19	9.723		
18,200.00	9,742.00	17,340.83	8,866.54	81.12	80.13	-90.844	8,177.15	14.99	935.57	838.42	97.14	9.631		
18,300.00	9,742.00	17,440.83	8,866.19	81.90	80.93	-90.844	8,277.14	14.44	935.89	837.80	98.10	9.541		
18,400.00	9,742.00	17,540.83	8,865.85	82.69	81.73	-90.845	8,377.14	13.89	936.22	837.17	99.05	9.452		

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference 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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
18,500.00	9,742.00	17,640.83	8,865.50	83.48	82.53	-90.845	8,477.14	13.34	936.55	836.54	100.01	9.365		
18,600.00	9,742.00	17,740.83	8,865.15	84.27	83.33	-90.845	8,577.13	12.80	936.88	835.92	100.96	9.279		
18,700.00	9,742.00	17,840.83	8,864.80	85.07	84.14	-90.845	8,677.13	12.25	937.21	835.29	101.92	9.195		
18,800.00	9,742.00	17,940.83	8,864.45	85.86	84.95	-90.845	8,777.13	11.70	937.54	834.65	102.88	9.113		
18,900.00	9,742.00	18,040.83	8,864.10	86.66	85.75	-90.846	8,877.13	11.15	937.86	834.02	103.84	9.031		
19,000.00	9,742.00	18,140.83	8,863.75	87.46	86.56	-90.846	8,977.12	10.61	938.19	833.39	104.81	8.952		
19,100.00	9,742.00	18,240.83	8,863.40	88.25	87.37	-90.846	9,077.12	10.06	938.52	832.75	105.77	8.873		
19,200.00	9,742.00	18,340.82	8,863.05	89.05	88.18	-90.846	9,177.12	9.51	938.85	832.11	106.74	8.796		
19,300.00	9,742.00	18,440.82	8,862.70	89.85	88.99	-90.846	9,277.12	8.96	939.18	831.48	107.70	8.720		
19,400.00	9,742.00	18,540.82	8,862.36	90.66	89.81	-90.847	9,377.11	8.42	939.51	830.84	108.67	8.645		
19,500.00	9,742.00	18,640.82	8,862.01	91.46	90.62	-90.847	9,477.11	7.87	939.84	830.20	109.64	8.572		
19,600.00	9,742.00	18,740.82	8,861.66	92.26	91.44	-90.847	9,577.11	7.32	940.16	829.55	110.61	8.500		
19,700.00	9,742.00	18,840.82	8,861.31	93.07	92.25	-90.847	9,677.10	6.78	940.49	828.91	111.58	8.429		
19,800.00	9,742.00	18,940.82	8,860.96	93.88	93.07	-90.847	9,777.10	6.23	940.82	828.27	112.55	8.359		
19,900.00	9,742.00	19,040.82	8,860.61	94.69	93.89	-90.848	9,877.10	5.68	941.15	827.62	113.53	8.290		
20,000.00	9,742.00	19,140.82	8,860.26	95.49	94.71	-90.848	9,977.10	5.13	941.48	826.98	114.50	8.223		
20,032.45	9,742.00	19,173.26	8,860.15	95.76	94.97	-90.848	10,009.54	4.96	941.59	826.77	114.82	8.201		

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

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

Survey Program: 0-MWD+IFR1+SAG+FDIR										Rule Assigned:		Offset Site Error: 0.00 usft	
Reference Offset										Offset Well Error: 0.00 usft		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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	
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	
600.00	600.00	600.00	600.00	2.06	2.06	90.000	0.00	25.00	25.00	20.89	4.11	6.080	
700.00	700.00	700.00	700.00	2.41	2.41	90.000	0.00	25.00	25.00	20.17	4.83	5.177	
800.00	800.00	800.00	800.00	2.77	2.77	90.000	0.00	25.00	25.00	19.45	5.55	4.508	
900.00	899.99	899.99	899.99	3.11	3.13	88.234	0.00	25.00	24.58	18.33	6.25	3.935	
1,000.00	999.96	999.96	999.96	3.45	3.49	82.581	0.00	25.00	23.46	16.53	6.93	3.384	
1,100.00	1,099.86	1,099.86	1,099.86	3.78	3.85	72.099	0.00	25.00	22.18	14.55	7.63	2.907	
1,177.18	1,176.91	1,176.91	1,176.91	4.04	4.12	60.236	0.00	25.00	21.70	13.53	8.17	2.657 CC	
1,200.00	1,199.68	1,199.68	1,199.68	4.12	4.21	56.161	0.00	25.00	21.76	13.43	8.33	2.613 ES	
1,300.00	1,299.37	1,299.76	1,299.75	4.47	4.55	36.323	-0.55	24.33	22.81	13.79	9.01	2.530 SF	
1,370.13	1,369.19	1,369.86	1,369.83	4.71	4.78	21.352	-1.61	23.06	24.70	15.21	9.49	2.603	
1,400.00	1,398.91	1,399.69	1,399.65	4.81	4.88	15.190	-2.22	22.32	25.87	16.18	9.69	2.670	
1,500.00	1,498.42	1,499.52	1,499.38	5.16	5.22	-2.794	-4.99	18.97	30.86	20.49	10.37	2.976	
1,600.00	1,597.92	1,599.23	1,598.91	5.51	5.56	-17.358	-8.87	14.29	37.27	26.21	11.06	3.371	
1,700.00	1,697.43	1,698.76	1,698.13	5.87	5.90	-29.346	-13.84	8.29	44.99	33.25	11.74	3.831	
1,800.00	1,796.93	1,798.04	1,796.96	6.22	6.24	-39.370	-19.89	0.98	54.06	41.62	12.43	4.347	
1,900.00	1,896.44	1,897.03	1,895.31	6.58	6.58	-47.843	-27.01	-7.62	64.52	51.39	13.13	4.915	
2,000.00	1,995.94	1,995.66	1,993.10	6.94	6.93	-55.060	-35.17	-17.49	76.44	62.62	13.82	5.533	
2,100.00	2,095.45	2,094.43	2,090.93	7.30	7.28	-60.801	-43.90	-28.03	89.57	75.06	14.51	6.173	
2,200.00	2,194.95	2,193.22	2,188.76	7.66	7.63	-65.048	-52.63	-38.57	103.39	88.18	15.21	6.799	
2,300.00	2,294.46	2,292.00	2,286.58	8.02	7.98	-68.283	-61.36	-49.12	117.64	101.73	15.91	7.395	
2,400.00	2,393.97	2,390.78	2,384.41	8.38	8.33	-70.815	-70.09	-59.66	132.19	115.58	16.61	7.958	
2,500.00	2,493.47	2,489.56	2,482.24	8.74	8.69	-72.843	-78.82	-70.20	146.94	129.63	17.32	8.486	
2,600.00	2,592.98	2,588.34	2,580.07	9.11	9.05	-74.500	-87.55	-80.75	161.85	143.83	18.02	8.980	
2,700.00	2,692.48	2,687.12	2,677.90	9.47	9.40	-75.877	-96.28	-91.29	176.87	158.14	18.73	9.442	
2,800.00	2,791.99	2,785.90	2,775.72	9.83	9.76	-77.039	-105.01	-101.83	191.98	172.54	19.44	9.874	
2,900.00	2,891.49	2,884.68	2,873.55	10.20	10.12	-78.031	-113.74	-112.38	207.16	187.00	20.16	10.278	
3,000.00	2,991.00	2,983.46	2,971.38	10.56	10.48	-78.888	-122.47	-122.92	222.39	201.52	20.87	10.657	
3,100.00	3,090.50	3,082.25	3,069.21	10.92	10.84	-79.635	-131.20	-133.46	237.66	216.08	21.58	11.012	
3,200.00	3,190.01	3,181.03	3,167.04	11.29	11.21	-80.292	-139.92	-144.01	252.97	230.67	22.30	11.346	
3,300.00	3,289.51	3,279.81	3,264.86	11.65	11.57	-80.874	-148.65	-154.55	268.31	245.30	23.01	11.659	
3,400.00	3,389.02	3,378.59	3,362.69	12.02	11.93	-81.393	-157.38	-165.09	283.67	259.94	23.73	11.955	
3,500.00	3,488.52	3,477.37	3,460.52	12.38	12.29	-81.858	-166.11	-175.64	299.06	274.61	24.45	12.233	
3,600.00	3,588.03	3,576.15	3,558.35	12.75	12.66	-82.279	-174.84	-186.18	314.46	289.30	25.16	12.497	
3,700.00	3,687.53	3,674.93	3,656.18	13.11	13.02	-82.660	-183.57	-196.72	329.88	304.00	25.88	12.745	
3,800.00	3,787.04	3,773.71	3,754.00	13.48	13.39	-83.007	-192.30	-207.27	345.31	318.71	26.60	12.981	
3,900.00	3,886.55	3,872.49	3,851.83	13.85	13.75	-83.324	-201.03	-217.81	360.75	333.43	27.32	13.205	
4,000.00	3,986.05	3,971.27	3,949.66	14.21	14.12	-83.615	-209.76	-228.35	376.20	348.17	28.04	13.417	
4,100.00	4,085.56	4,070.06	4,047.49	14.58	14.48	-83.884	-218.49	-238.90	391.67	362.91	28.76	13.619	
4,200.00	4,185.06	4,168.84	4,145.32	14.94	14.85	-84.132	-227.22	-249.44	407.14	377.66	29.48	13.811	
4,300.00	4,284.57	4,267.62	4,243.15	15.31	15.21	-84.361	-235.95	-259.98	422.61	392.41	30.20	13.993	
4,400.00	4,384.07	4,366.40	4,340.97	15.68	15.58	-84.575	-244.67	-270.53	438.10	407.17	30.92	14.168	
4,500.00	4,483.58	4,465.18	4,438.80	16.04	15.95	-84.774	-253.40	-281.07	453.59	421.94	31.64	14.334	
4,600.00	4,583.08	4,563.96	4,536.63	16.41	16.31	-84.960	-262.13	-291.61	469.08	436.71	32.36	14.493	
4,700.00	4,682.59	4,662.74	4,634.46	16.78	16.68	-85.134	-270.86	-302.16	484.58	451.49	33.09	14.646	
4,800.00	4,782.09	4,761.52	4,732.29	17.14	17.05	-85.297	-279.59	-312.70	500.08	466.27	33.81	14.791	

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

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

Survey Program: 0-MWD+IFR1+SAG+FDIR										Rule Assigned:				Offset Site Error:
Reference Offset										Distance				Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,900.00	4,881.60	4,860.30	4,830.11	17.51	17.41	-85.451	-288.32	-323.24	515.59	481.06	34.53	14.931		
5,000.00	4,981.10	4,959.09	4,927.94	17.88	17.78	-85.595	-297.05	-333.79	531.10	495.84	35.25	15.065		
5,100.00	5,080.61	5,057.87	5,025.77	18.24	18.15	-85.731	-305.78	-344.33	546.61	510.63	35.98	15.193		
5,200.00	5,180.11	5,156.65	5,123.60	18.61	18.52	-85.860	-314.51	-354.87	562.13	525.43	36.70	15.317		
5,300.00	5,279.62	5,255.43	5,221.43	18.98	18.88	-85.982	-323.24	-365.42	577.64	540.22	37.42	15.436		
5,400.00	5,379.12	5,354.21	5,319.25	19.34	19.25	-86.097	-331.97	-375.96	593.17	555.02	38.15	15.550		
5,500.00	5,478.63	5,452.99	5,417.08	19.71	19.62	-86.207	-340.70	-386.50	608.69	569.82	38.87	15.660		
5,600.00	5,578.14	5,551.77	5,514.91	20.08	19.99	-86.311	-349.42	-397.05	624.22	584.62	39.59	15.765		
5,700.00	5,677.64	5,650.55	5,612.74	20.44	20.35	-86.410	-358.15	-407.59	639.74	599.43	40.32	15.868		
5,800.00	5,777.15	5,749.33	5,710.57	20.81	20.72	-86.505	-366.88	-418.13	655.27	614.23	41.04	15.966		
5,900.00	5,876.65	5,848.12	5,808.39	21.18	21.09	-86.595	-375.61	-428.68	670.80	629.04	41.77	16.061		
6,000.00	5,976.16	5,946.90	5,906.22	21.54	21.46	-86.681	-384.34	-439.22	686.34	643.85	42.49	16.153		
6,100.00	6,075.66	6,045.68	6,004.05	21.91	21.83	-86.763	-393.07	-449.77	701.87	658.66	43.21	16.241		
6,200.00	6,175.17	6,144.46	6,101.88	22.28	22.20	-86.841	-401.80	-460.31	717.41	673.47	43.94	16.327		
6,300.00	6,274.67	6,243.24	6,199.71	22.65	22.56	-86.917	-410.53	-470.85	732.94	688.28	44.66	16.410		
6,400.00	6,374.18	6,342.02	6,297.54	23.01	22.93	-86.989	-419.26	-481.40	748.48	703.09	45.39	16.490		
6,456.91	6,430.81	6,398.24	6,353.21	23.22	23.14	-87.029	-424.23	-487.40	757.32	711.52	45.80	16.535		
6,500.00	6,473.70	6,440.81	6,395.38	23.38	23.30	-87.068	-427.99	-491.94	763.94	717.82	46.11	16.566		
6,600.00	6,573.35	6,539.70	6,493.31	23.75	23.67	-87.236	-436.73	-502.49	778.62	731.79	46.84	16.624		
6,700.00	6,673.13	6,638.68	6,591.33	24.11	24.04	-87.505	-445.47	-513.06	792.41	744.85	47.56	16.662		
6,800.00	6,773.02	6,737.71	6,689.41	24.47	24.41	-87.871	-454.22	-523.63	805.30	757.02	48.28	16.681		
6,900.00	6,872.97	6,846.68	6,797.43	24.82	24.82	-88.360	-463.39	-534.69	816.83	767.76	49.07	16.647		
7,000.00	6,972.96	6,958.15	6,908.18	25.18	25.23	-88.858	-471.42	-544.39	826.07	776.20	49.86	16.566		
7,027.04	7,000.00	6,988.38	6,938.25	25.27	25.34	-88.992	-473.36	-546.74	828.17	778.10	50.07	16.539		
7,100.00	7,072.96	7,070.06	7,019.59	25.51	25.64	-89.326	-478.09	-552.46	833.23	782.60	50.63	16.458		
7,200.00	7,172.96	7,182.33	7,131.55	25.83	26.04	-89.693	-483.40	-558.87	838.90	787.52	51.38	16.329		
7,300.00	7,272.96	7,294.88	7,243.94	26.16	26.45	-89.961	-487.31	-563.59	843.09	790.97	52.12	16.177		
7,400.00	7,372.96	7,407.63	7,356.62	26.48	26.85	-90.131	-489.82	-566.62	845.78	792.93	52.85	16.004		
7,500.00	7,472.96	7,520.50	7,469.47	26.81	27.24	-90.205	-490.91	-567.94	846.95	793.39	53.56	15.812		
7,600.00	7,572.96	7,623.98	7,572.96	27.14	27.58	-90.208	-490.96	-568.00	847.01	792.77	54.23	15.618		
7,700.00	7,672.96	7,723.98	7,672.96	27.47	27.91	-90.208	-490.96	-568.00	847.01	792.11	54.89	15.431		
7,800.00	7,772.96	7,823.98	7,772.96	27.79	28.24	-90.208	-490.96	-568.00	847.01	791.46	55.55	15.247		
7,900.00	7,872.96	7,923.98	7,872.96	28.12	28.57	-90.208	-490.96	-568.00	847.01	790.79	56.21	15.068		
8,000.00	7,972.96	8,023.98	7,972.96	28.46	28.90	-90.208	-490.96	-568.00	847.01	790.13	56.87	14.893		
8,100.00	8,072.96	8,123.98	8,072.96	28.79	29.23	-90.208	-490.96	-568.00	847.01	789.47	57.54	14.721		
8,200.00	8,172.96	8,223.98	8,172.96	29.12	29.56	-90.208	-490.96	-568.00	847.01	788.80	58.20	14.553		
8,300.00	8,272.96	8,323.98	8,272.96	29.45	29.89	-90.208	-490.96	-568.00	847.01	788.14	58.87	14.388		
8,400.00	8,372.96	8,423.98	8,372.96	29.78	30.22	-90.208	-490.96	-568.00	847.01	787.47	59.54	14.227		
8,500.00	8,472.96	8,523.98	8,472.96	30.12	30.56	-90.208	-490.96	-568.00	847.01	786.80	60.20	14.069		
8,600.00	8,572.96	8,623.98	8,572.96	30.45	30.89	-90.208	-490.96	-568.00	847.01	786.13	60.87	13.914		
8,700.00	8,672.96	8,723.98	8,672.96	30.79	31.22	-90.208	-490.96	-568.00	847.01	785.46	61.54	13.763		
8,800.00	8,772.96	8,823.98	8,772.96	31.12	31.56	-90.208	-490.96	-568.00	847.01	784.79	62.21	13.614		
8,900.00	8,872.96	8,923.98	8,872.96	31.46	31.89	-90.208	-490.96	-568.00	847.01	784.12	62.89	13.469		
9,000.00	8,972.96	9,023.98	8,972.96	31.80	32.23	-90.208	-490.96	-568.00	847.01	783.44	63.56	13.326		
9,100.00	9,072.96	9,123.98	9,072.96	32.13	32.56	-90.208	-490.96	-568.00	847.01	782.77	64.24	13.186		
9,113.11	9,086.06	9,137.09	9,086.06	32.18	32.61	-90.208	-490.96	-568.00	847.01	782.68	64.32	13.168		
9,196.08	9,169.04	9,219.53	9,168.50	32.46	32.89	-90.205	-490.91	-568.00	847.01	782.13	64.88	13.054		
9,200.00	9,172.96	9,223.18	9,172.15	32.47	32.90	-90.202	-490.85	-568.01	847.01	782.10	64.91	13.049		
9,250.00	9,222.88	9,269.79	9,218.66	32.64	33.05	-90.182	-488.06	-568.15	847.52	782.28	65.23	12.992		
9,300.00	9,272.39	9,316.35	9,264.75	32.80	33.20	-90.198	-481.51	-568.50	848.84	783.29	65.55	12.949		

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

Offset Design: Double Stamp W2-1 (111H,115H,121H,125H) - Double Stamp Fed Com 125H - Wellbore #1 - Design #1													Offset Site Error:
Survey Program: 0-MWD+IFR1+SAG+FDIR													Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,350.00	9,321.11	9,362.88	9,310.11	32.96	33.35	-90.251	-471.25	-569.03	850.97	785.11	65.86	12.920	
9,400.00	9,368.68	9,409.37	9,354.46	33.12	33.49	-90.339	-457.37	-569.76	853.89	787.73	66.16	12.906	
9,450.00	9,414.73	9,455.83	9,397.51	33.26	33.63	-90.460	-439.96	-570.67	857.58	791.13	66.45	12.906	
9,500.00	9,458.90	9,502.26	9,438.99	33.40	33.75	-90.612	-419.13	-571.76	862.00	795.28	66.72	12.920	
9,550.00	9,500.88	9,550.00	9,479.72	33.53	33.87	-90.744	-394.29	-573.07	867.13	800.15	66.98	12.946	
9,600.00	9,540.32	9,595.13	9,516.20	33.65	33.98	-90.994	-367.78	-574.46	872.93	805.71	67.22	12.986	
9,650.00	9,576.94	9,641.59	9,551.44	33.77	34.08	-91.214	-337.58	-576.04	879.35	811.90	67.45	13.037	
9,700.00	9,610.46	9,688.09	9,584.16	33.87	34.16	-91.447	-304.59	-577.77	886.34	818.68	67.67	13.099	
9,750.00	9,640.61	9,734.65	9,614.12	33.96	34.24	-91.685	-269.02	-579.63	893.86	826.00	67.86	13.171	
9,800.00	9,667.18	9,781.30	9,641.14	34.05	34.31	-91.922	-231.06	-581.62	901.85	833.80	68.05	13.253	
9,850.00	9,689.96	9,828.07	9,665.04	34.13	34.37	-92.152	-190.93	-583.72	910.24	842.03	68.22	13.344	
9,900.00	9,708.77	9,874.99	9,685.65	34.20	34.42	-92.367	-148.84	-585.93	918.98	850.62	68.37	13.442	
9,950.00	9,723.48	9,922.10	9,702.79	34.27	34.47	-92.560	-105.04	-588.23	928.01	859.51	68.50	13.547	
10,000.00	9,733.96	9,969.42	9,716.33	34.32	34.51	-92.726	-59.77	-590.60	937.25	868.63	68.63	13.657	
10,050.00	9,740.15	10,017.01	9,726.13	34.37	34.54	-92.858	-13.28	-593.03	946.65	877.92	68.73	13.773	
10,096.08	9,742.00	10,061.14	9,731.74	34.41	34.57	-92.945	30.42	-595.32	955.38	886.57	68.81	13.884	
10,100.00	9,742.00	10,064.90	9,732.06	34.41	34.57	-92.951	34.16	-595.52	956.12	887.30	68.82	13.893	
10,200.00	9,742.00	10,188.63	9,734.00	34.50	34.64	-91.469	157.72	-600.97	972.66	903.63	69.03	14.090	
10,300.00	9,742.00	10,307.87	9,734.00	34.62	34.73	-90.311	276.94	-602.20	982.16	912.88	69.28	14.177	
10,400.00	9,742.00	10,407.70	9,734.00	34.75	34.84	-90.311	376.78	-602.75	987.80	918.26	69.55	14.204	
10,500.00	9,742.00	10,507.67	9,734.00	34.91	34.98	-90.311	476.75	-603.29	989.95	920.10	69.85	14.172	
10,511.62	9,742.00	10,519.29	9,734.00	34.93	35.00	-90.311	488.36	-603.35	989.98	920.08	69.89	14.164	
10,600.00	9,742.00	10,607.67	9,734.00	35.09	35.14	-90.311	576.74	-603.83	989.98	919.77	70.20	14.101	
10,700.00	9,742.00	10,707.67	9,734.00	35.29	35.32	-90.311	676.74	-604.37	989.98	919.38	70.60	14.023	
10,800.00	9,742.00	10,807.67	9,734.00	35.51	35.53	-90.311	776.74	-604.92	989.98	918.95	71.03	13.938	
10,900.00	9,742.00	10,907.67	9,734.00	35.75	35.76	-90.311	876.74	-605.46	989.98	918.48	71.50	13.846	
11,000.00	9,742.00	11,007.67	9,734.00	36.00	36.01	-90.311	976.74	-606.00	989.98	917.97	72.01	13.748	
11,100.00	9,742.00	11,107.67	9,734.00	36.28	36.28	-90.311	1,076.74	-606.55	989.98	917.42	72.56	13.644	
11,200.00	9,742.00	11,207.67	9,734.00	36.58	36.57	-90.311	1,176.74	-607.09	989.98	916.84	73.14	13.535	
11,300.00	9,742.00	11,307.67	9,734.00	36.89	36.87	-90.311	1,276.73	-607.63	989.98	916.22	73.76	13.421	
11,400.00	9,742.00	11,407.67	9,734.00	37.22	37.20	-90.311	1,376.73	-608.17	989.98	915.56	74.42	13.303	
11,500.00	9,742.00	11,507.67	9,734.00	37.57	37.54	-90.311	1,476.73	-608.72	989.98	914.87	75.11	13.181	
11,600.00	9,742.00	11,607.67	9,734.00	37.93	37.90	-90.311	1,576.73	-609.26	989.98	914.15	75.83	13.055	
11,700.00	9,742.00	11,707.67	9,734.00	38.31	38.27	-90.311	1,676.73	-609.80	989.98	913.39	76.59	12.926	
11,800.00	9,742.00	11,807.67	9,734.00	38.71	38.67	-90.311	1,776.73	-610.34	989.98	912.61	77.38	12.794	
11,900.00	9,742.00	11,907.67	9,734.00	39.12	39.07	-90.311	1,876.73	-610.89	989.98	911.79	78.19	12.661	
12,000.00	9,742.00	12,007.67	9,734.00	39.55	39.49	-90.311	1,976.72	-611.43	989.98	910.94	79.04	12.525	
12,100.00	9,742.00	12,107.67	9,734.00	39.99	39.93	-90.311	2,076.72	-611.97	989.99	910.07	79.92	12.387	
12,200.00	9,742.00	12,207.67	9,734.00	40.44	40.38	-90.311	2,176.72	-612.52	989.99	909.16	80.82	12.249	
12,300.00	9,742.00	12,307.67	9,734.00	40.91	40.84	-90.311	2,276.72	-613.06	989.99	908.23	81.75	12.109	
12,400.00	9,742.00	12,407.67	9,734.00	41.39	41.32	-90.311	2,376.72	-613.60	989.99	907.28	82.71	11.969	
12,500.00	9,742.00	12,507.67	9,734.00	41.88	41.81	-90.311	2,476.72	-614.14	989.99	906.29	83.69	11.829	
12,600.00	9,742.00	12,607.67	9,734.00	42.39	42.31	-90.311	2,576.71	-614.69	989.99	905.29	84.70	11.688	
12,700.00	9,742.00	12,707.67	9,734.00	42.91	42.82	-90.311	2,676.71	-615.23	989.99	904.26	85.73	11.548	
12,800.00	9,742.00	12,807.67	9,734.00	43.43	43.35	-90.311	2,776.71	-615.77	989.99	903.21	86.78	11.408	
12,900.00	9,742.00	12,907.67	9,734.00	43.97	43.88	-90.311	2,876.71	-616.32	989.99	902.14	87.85	11.269	
13,000.00	9,742.00	13,007.67	9,734.00	44.52	44.43	-90.311	2,976.71	-616.86	989.99	901.04	88.95	11.130	
13,100.00	9,742.00	13,107.67	9,734.00	45.08	44.99	-90.311	3,076.71	-617.40	989.99	899.93	90.06	10.992	
13,200.00	9,742.00	13,207.67	9,734.00	45.65	45.55	-90.311	3,176.71	-617.94	989.99	898.80	91.20	10.856	
13,300.00	9,742.00	13,307.67	9,734.00	46.23	46.13	-90.311	3,276.70	-618.49	989.99	897.64	92.35	10.720	
13,400.00	9,742.00	13,407.67	9,734.00	46.81	46.71	-90.311	3,376.70	-619.03	989.99	896.47	93.52	10.586	

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference 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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
13,500.00	9,742.00	13,507.67	9,734.00	47.41	47.30	-90.311	3,476.70	-619.57	989.99	895.29	94.71	10.453			
13,600.00	9,742.00	13,607.67	9,734.00	48.01	47.90	-90.311	3,576.70	-620.12	989.99	894.08	95.91	10.322			
13,700.00	9,742.00	13,707.67	9,734.00	48.62	48.51	-90.311	3,676.70	-620.66	989.99	892.86	97.13	10.192			
13,800.00	9,742.00	13,807.67	9,734.00	49.24	49.13	-90.311	3,776.70	-621.20	990.00	891.63	98.37	10.064			
13,900.00	9,742.00	13,907.67	9,734.00	49.87	49.75	-90.311	3,876.70	-621.74	990.00	890.38	99.62	9.938			
14,000.00	9,742.00	14,007.67	9,734.00	50.50	50.39	-90.311	3,976.69	-622.29	990.00	889.11	100.88	9.813			
14,100.00	9,742.00	14,107.67	9,734.00	51.14	51.02	-90.311	4,076.69	-622.83	990.00	887.84	102.16	9.691			
14,200.00	9,742.00	14,207.67	9,734.00	51.79	51.67	-90.311	4,176.69	-623.37	990.00	886.54	103.45	9.570			
14,300.00	9,742.00	14,307.67	9,734.00	52.44	52.32	-90.311	4,276.69	-623.92	990.00	885.24	104.76	9.450			
14,400.00	9,742.00	14,407.67	9,734.00	53.10	52.98	-90.311	4,376.69	-624.46	990.00	883.92	106.08	9.333			
14,500.00	9,742.00	14,507.67	9,734.00	53.77	53.64	-90.311	4,476.69	-625.00	990.00	882.60	107.40	9.218			
14,600.00	9,742.00	14,607.67	9,734.00	54.44	54.31	-90.311	4,576.69	-625.54	990.00	881.26	108.74	9.104			
14,700.00	9,742.00	14,707.67	9,734.00	55.12	54.99	-90.311	4,676.68	-626.09	990.00	879.90	110.10	8.992			
14,800.00	9,742.00	14,807.67	9,734.00	55.80	55.67	-90.311	4,776.68	-626.63	990.00	878.54	111.46	8.882			
14,900.00	9,742.00	14,907.67	9,734.00	56.49	56.35	-90.311	4,876.68	-627.17	990.00	877.17	112.83	8.774			
15,000.00	9,742.00	15,007.67	9,734.00	57.18	57.04	-90.311	4,976.68	-627.72	990.00	875.79	114.21	8.668			
15,100.00	9,742.00	15,107.67	9,734.00	57.88	57.74	-90.311	5,076.68	-628.26	990.00	874.40	115.60	8.564			
15,200.00	9,742.00	15,207.67	9,734.00	58.58	58.44	-90.311	5,176.68	-628.80	990.00	873.00	117.00	8.461			
15,300.00	9,742.00	15,307.67	9,734.00	59.28	59.14	-90.311	5,276.68	-629.34	990.00	871.59	118.41	8.361			
15,400.00	9,742.00	15,407.67	9,734.00	59.99	59.85	-90.311	5,376.67	-629.89	990.00	870.17	119.83	8.262			
15,500.00	9,742.00	15,507.67	9,734.00	60.71	60.56	-90.311	5,476.67	-630.43	990.01	868.75	121.26	8.164			
15,600.00	9,742.00	15,607.67	9,734.00	61.42	61.28	-90.311	5,576.67	-630.97	990.01	867.31	122.69	8.069			
15,700.00	9,742.00	15,707.67	9,734.00	62.15	62.00	-90.311	5,676.67	-631.52	990.01	865.87	124.13	7.975			
15,800.00	9,742.00	15,807.67	9,734.00	62.87	62.72	-90.311	5,776.67	-632.06	990.01	864.42	125.58	7.883			
15,900.00	9,742.00	15,907.67	9,734.00	63.60	63.45	-90.311	5,876.67	-632.60	990.01	862.97	127.04	7.793			
16,000.00	9,742.00	16,007.67	9,734.00	64.33	64.18	-90.311	5,976.66	-633.14	990.01	861.51	128.50	7.704			
16,100.00	9,742.00	16,107.67	9,734.00	65.07	64.91	-90.311	6,076.66	-633.69	990.01	860.04	129.97	7.617			
16,200.00	9,742.00	16,207.67	9,734.00	65.81	65.65	-90.311	6,176.66	-634.23	990.01	858.56	131.45	7.531			
16,300.00	9,742.00	16,307.67	9,734.00	66.55	66.39	-90.311	6,276.66	-634.77	990.01	857.08	132.93	7.447			
16,400.00	9,742.00	16,407.67	9,734.00	67.29	67.14	-90.311	6,376.66	-635.32	990.01	855.59	134.42	7.365			
16,500.00	9,742.00	16,507.67	9,734.00	68.04	67.88	-90.311	6,476.66	-635.86	990.01	854.10	135.92	7.284			
16,600.00	9,742.00	16,607.67	9,734.00	68.79	68.63	-90.311	6,576.66	-636.40	990.01	852.60	137.42	7.204			
16,700.00	9,742.00	16,707.67	9,734.00	69.54	69.39	-90.311	6,676.65	-636.94	990.01	851.09	138.92	7.126			
16,800.00	9,742.00	16,807.67	9,734.00	70.30	70.14	-90.311	6,776.65	-637.49	990.01	849.58	140.43	7.050			
16,900.00	9,742.00	16,907.67	9,734.00	71.06	70.90	-90.311	6,876.65	-638.03	990.01	848.07	141.95	6.974			
17,000.00	9,742.00	17,007.67	9,734.00	71.82	71.66	-90.311	6,976.65	-638.57	990.01	846.55	143.47	6.901			
17,100.00	9,742.00	17,107.67	9,734.00	72.58	72.42	-90.311	7,076.65	-639.12	990.01	845.02	144.99	6.828			
17,200.00	9,742.00	17,207.67	9,734.00	73.35	73.19	-90.311	7,176.65	-639.66	990.02	843.49	146.53	6.757			
17,300.00	9,742.00	17,307.67	9,734.00	74.12	73.95	-90.311	7,276.65	-640.20	990.02	841.96	148.06	6.687			
17,400.00	9,742.00	17,407.67	9,734.00	74.89	74.72	-90.311	7,376.64	-640.74	990.02	840.42	149.60	6.618			
17,500.00	9,742.00	17,507.67	9,734.00	75.66	75.49	-90.311	7,476.64	-641.29	990.02	838.87	151.14	6.550			
17,600.00	9,742.00	17,607.67	9,734.00	76.43	76.27	-90.311	7,576.64	-641.83	990.02	837.33	152.69	6.484			
17,700.00	9,742.00	17,707.67	9,734.00	77.21	77.04	-90.311	7,676.64	-642.37	990.02	835.78	154.24	6.419			
17,800.00	9,742.00	17,807.67	9,734.00	77.99	77.82	-90.311	7,776.64	-642.92	990.02	834.22	155.80	6.355			
17,900.00	9,742.00	17,907.67	9,734.00	78.77	78.60	-90.311	7,876.64	-643.46	990.02	832.66	157.36	6.292			
18,000.00	9,742.00	18,007.67	9,734.00	79.55	79.38	-90.311	7,976.64	-644.00	990.02	831.10	158.92	6.230			
18,100.00	9,742.00	18,107.67	9,734.00	80.33	80.16	-90.311	8,076.63	-644.54	990.02	829.54	160.49	6.169			
18,200.00	9,742.00	18,207.67	9,734.00	81.12	80.95	-90.311	8,176.63	-645.09	990.02	827.97	162.05	6.109			
18,300.00	9,742.00	18,307.67	9,734.00	81.90	81.73	-90.311	8,276.63	-645.63	990.02	826.39	163.63	6.050			
18,400.00	9,742.00	18,407.67	9,734.00	82.69	82.52	-90.311	8,376.63	-646.17	990.02	824.82	165.20	5.993			

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference 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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
18,500.00	9,742.00	18,507.67	9,734.00	83.48	83.31	-90.311	8,476.63	-646.72	990.02	823.24	166.78	5.936		
18,600.00	9,742.00	18,607.67	9,734.00	84.27	84.10	-90.311	8,576.63	-647.26	990.02	821.66	168.37	5.880		
18,700.00	9,742.00	18,707.67	9,734.00	85.07	84.89	-90.311	8,676.63	-647.80	990.02	820.07	169.95	5.825		
18,800.00	9,742.00	18,807.67	9,734.00	85.86	85.69	-90.311	8,776.62	-648.34	990.03	818.49	171.54	5.771		
18,900.00	9,742.00	18,907.67	9,734.00	86.66	86.48	-90.311	8,876.62	-648.89	990.03	816.89	173.13	5.718		
19,000.00	9,742.00	19,007.67	9,734.00	87.46	87.28	-90.311	8,976.62	-649.43	990.03	815.30	174.72	5.666		
19,100.00	9,742.00	19,107.67	9,734.00	88.25	88.08	-90.311	9,076.62	-649.97	990.03	813.71	176.32	5.615		
19,200.00	9,742.00	19,207.67	9,734.00	89.05	88.88	-90.311	9,176.62	-650.52	990.03	812.11	177.92	5.564		
19,300.00	9,742.00	19,307.67	9,734.00	89.85	89.68	-90.311	9,276.62	-651.06	990.03	810.51	179.52	5.515		
19,400.00	9,742.00	19,407.67	9,734.00	90.66	90.48	-90.311	9,376.61	-651.60	990.03	808.90	181.13	5.466		
19,500.00	9,742.00	19,507.67	9,734.00	91.46	91.28	-90.311	9,476.61	-652.14	990.03	807.30	182.73	5.418		
19,600.00	9,742.00	19,607.67	9,734.00	92.26	92.08	-90.311	9,576.61	-652.69	990.03	805.69	184.34	5.371		
19,700.00	9,742.00	19,707.67	9,734.00	93.07	92.89	-90.311	9,676.61	-653.23	990.03	804.08	185.95	5.324		
19,800.00	9,742.00	19,807.67	9,734.00	93.88	93.70	-90.311	9,776.61	-653.77	990.03	802.47	187.56	5.278		
19,900.00	9,742.00	19,907.67	9,734.00	94.69	94.50	-90.311	9,876.61	-654.32	990.03	800.85	189.18	5.233		
20,000.00	9,742.00	20,007.67	9,734.00	95.49	95.31	-90.311	9,976.61	-654.86	990.03	799.23	190.80	5.189		
20,002.50	9,742.00	20,010.17	9,734.00	95.51	95.33	-90.311	9,979.10	-654.87	990.03	799.19	190.84	5.188		
20,032.45	9,742.00	20,037.15	9,734.00	95.76	95.55	-90.483	10,006.09	-655.02	990.04	798.74	191.30	5.175		

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

Reference Depths are relative to WELL @ 3557.50usft (H&P 264)

Offset Depths are relative to Offset Datum

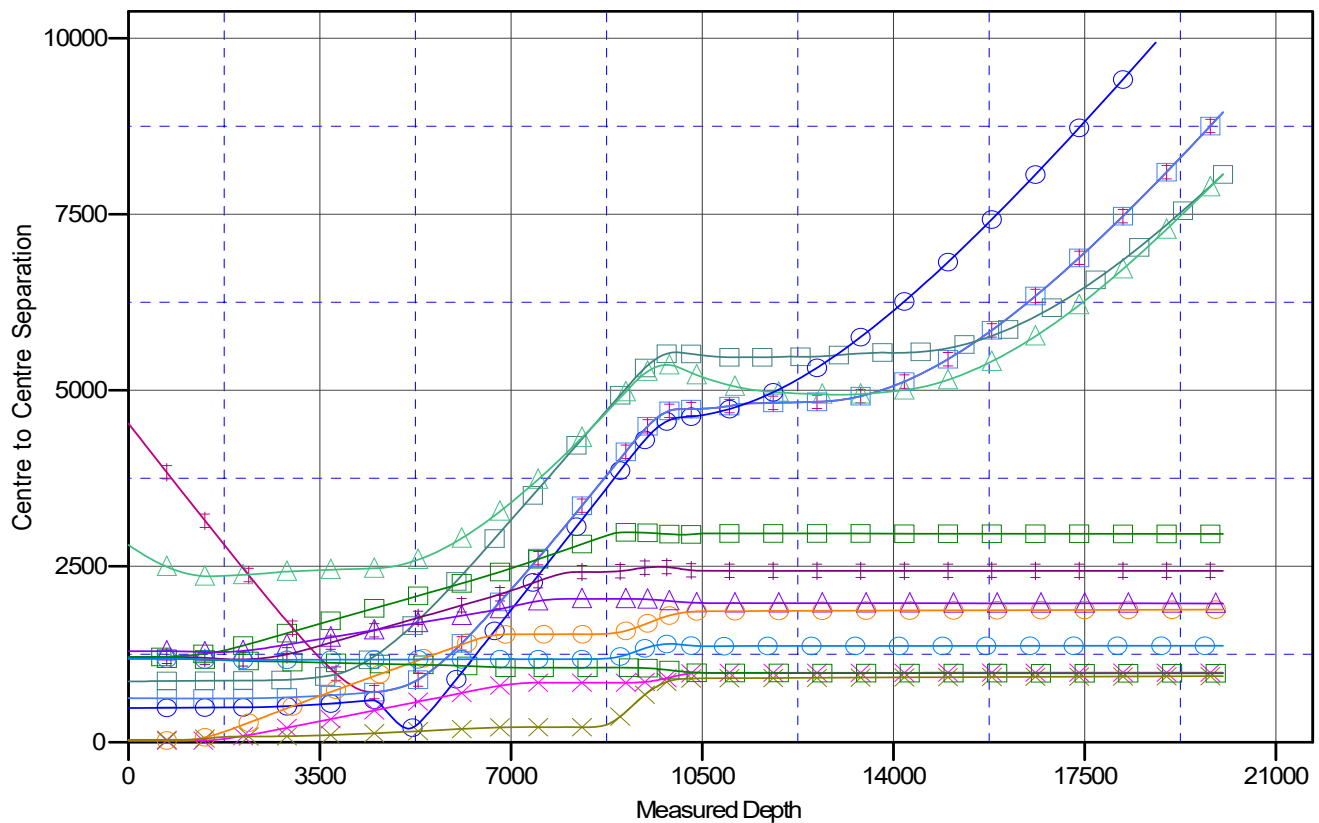
Central Meridian is -104.333334

Coordinates are relative to: Double Stamp Fed Com 121H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.319°

Ladder Plot



LEGEND

Beiko A/Federal 2H, Wellbore #1, Survey V0	Double Stamp Fed Com 125H, Wellbore #1, Design #1 V0	Double Stamp Fed Com 126H, Wellbore #1, Design #1 V0
Beiko A/Federal 2H, Wellbore #1, Mod Survey (from Surface) V0	Double Stamp Fed Com 111H, Wellbore #1, Design #1 V0	Double Stamp Fed Com 123H, Wellbore #1, Design #1 V0
Queenie 151H, Wellbore #1, Survey V0	Double Stamp Fed Com 115H, Wellbore #1, Design #1 V0	Double Stamp Fed Com 113H, Wellbore #1, Design #1 V0
Beiko A/Federal 3H, Wellbore #1, Survey V0	Double Stamp Fed Com 116H, Wellbore #1, Design #1 V0	
Beiko A/Federal 4H, Wellbore #1, Survey V0	Double Stamp Fed Com 128H, Wellbore #1, Design #1 V0	

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 121H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3557.50usft (H&P 264)
Reference Site:	Double Stamp W2-1 (111H,115H,121H,125H)	MD Reference:	WELL @ 3557.50usft (H&P 264)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 121H	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:	Reference Datum

Reference Depths are relative to WELL @ 3557.50usft (H&P 264)

Offset Depths are relative to Offset Datum

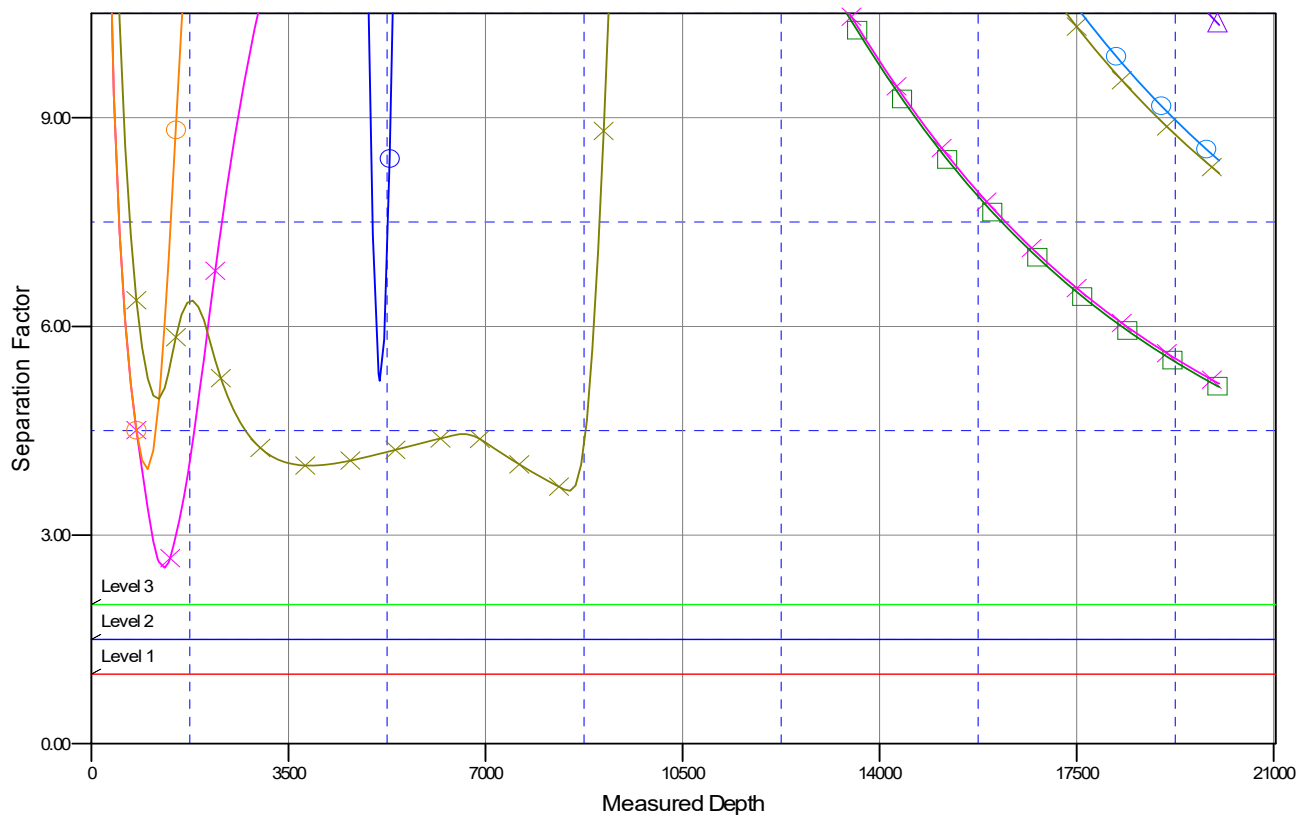
Central Meridian is -104.333334

Coordinates are relative to: Double Stamp Fed Com 121H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.319°

Separation Factor Plot



LEGEND

- Belto APFederal2H, Wellbore#1, Survey#V0 - Belto APFederal2H, Wellbore#1, Mod(Survey#10m Surface) V0 - Queenie 151H, Wellbore#1, Survey#V0 - Belto APFederal3H, Wellbore#1, Survey#V0 - Belto APFederal4H, Wellbore#1, Survey#V0	- Double StampFedCom125H, Wellbore#1, Design#1 V0 - Double StampFedCom111H, Wellbore#1, Design#1 V0 - Double StampFedCom115H, Wellbore#1, Design#1 V0 - Double StampFedCom119H, Wellbore#1, Design#1 V0 - Double StampFedCom126H, Wellbore#1, Design#1 V0	- Double StampFedCom126H, Wellbore#1, Design#1 V0 - Double StampFedCom123H, Wellbore#1, Design#1 V0 - Double StampFedCom113H, Wellbore#1, Design#1 V0
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CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-54001	Pool Code 53560	Pool Name SALT LAKE; BONE SPRING
Property Code 336572	Property Name DOUBLE STAMP FED COM	Well Number 121H
OGRID No. 332195	Operator Name CIVITAS PERMIAN OPERATING, LLC	Ground Level Elevation 3531'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL or lot no. N	Section 14	Township 20-S	Range 32-E	Lot Idn -	Feet from the N/S 549' S	Feet from the E/W 1589' W	Latitude N 32.5674392	Longitude W 103.7403099	County LEA
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Bottom Hole Location

UL or lot no. C	Section 11	Township 20-S	Range 32-E	Lot Idn -	Feet from the N/S 5' N	Feet from the E/W 1979' W	Latitude N 32.5949599	Longitude W 103.7390412	County LEA
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Dedicated Acres 640.00	Infill or Defining Well -	Defining Well API -	Overlapping Spacing Unit (Y/N) -	Consolidated Code -
Order Numbers -			Well Setbacks are under Common Ownership: ☐ Yes ☐ No	

Kick Off Point (KOP)

UL or lot no. N	Section 14	Township 20-S	Range 32-E	Lot Idn -	Feet from the N/S 50' S	Feet from the E/W 1979' W	Latitude N 32.5660658	Longitude W 103.7390450	County LEA
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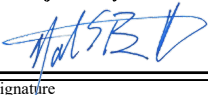
First Take Point (FTP)

UL or lot no. N	Section 14	Township 20-S	Range 32-E	Lot Idn -	Feet from the N/S 100' S	Feet from the E/W 1979' W	Latitude N 32.5662032	Longitude W 103.7390451	County LEA
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Last Take Point (LTP)

UL or lot no. C	Section 11	Township 20-S	Range 32-E	Lot Idn -	Feet from the N/S 100' N	Feet from the E/W 1979' W	Latitude N 32.5946987	Longitude W 103.7390413	County LEA
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Unitized Area or Area of Uniform Intrest -	Spacing Unity Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation -
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OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief; and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received The consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i>  01/07/2025 Signature Nathan Bennett Print Name nbennett@civiresources.com E-mail Address		SURVEYORS CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>  1/7/2025 11:20:09 AM Signature and Seal of Professional Surveyor Date Certificate Number Date of Survey 08/11/2022	
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<u>C-102</u> Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	☐ Initial Submittal
			☒ Amended Report
Property Name and Well Number			
DOUBLE STAMP FED COM 121H			

SURFACE LOCATION (SHL)

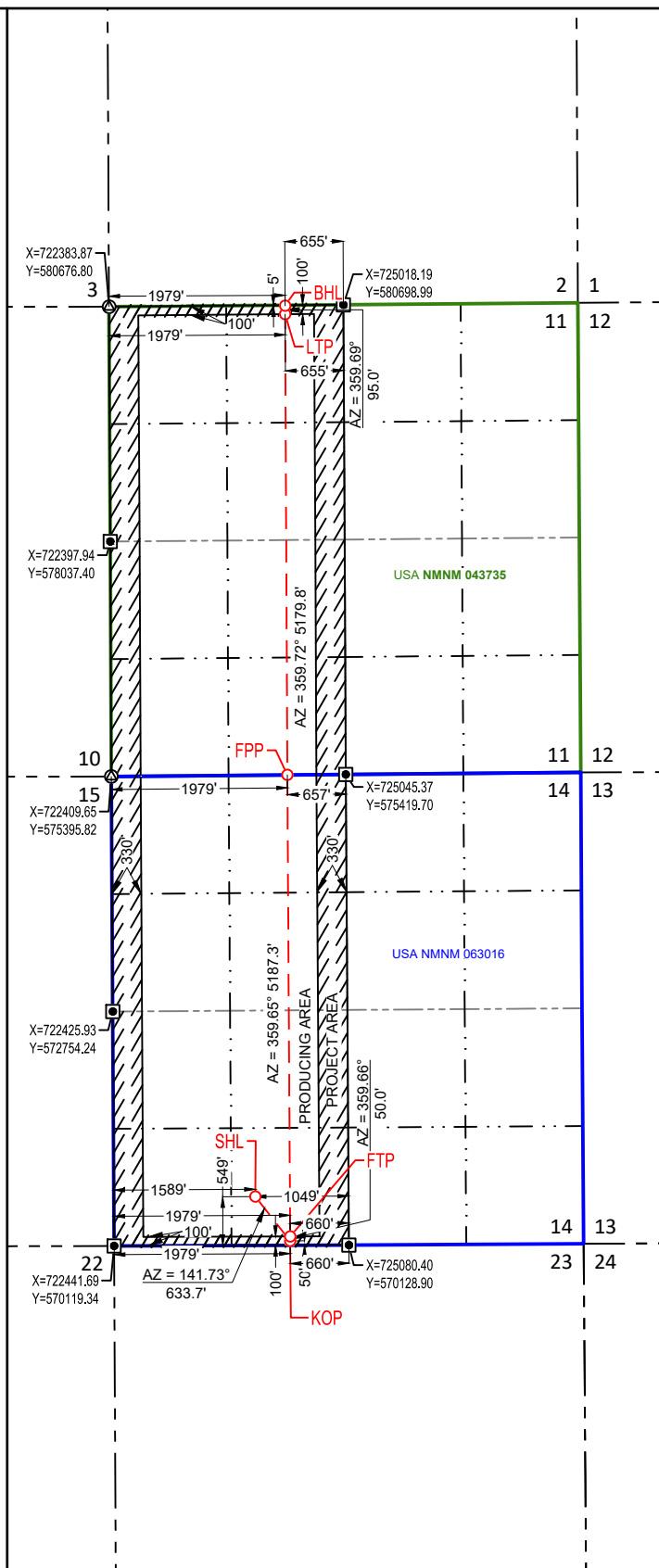
NEW MEXICO EAST
NAD 1983
X=724028 Y=570674
LAT.: N 32.5674392
LONG.: W 103.7403099
NAD 1927
X=682847 Y=570612
LAT.: N 32.5673176
LONG.: W 103.7398137
549' FSL 1589' FWL

KICK OFF POINT (KOP)

NEW MEXICO EAST
NAD 1983
X=724420 Y=570177
LAT.: N 32.5660658
LONG.: W 103.7390450
NAD 1927
X=683240 Y=570114
LAT.: N 32.5659442
LONG.: W 103.7385489
50' FSL 1979' FWL

FIRST TAKE POINT (FTP)

NEW MEXICO EAST
NAD 1983
X=724420 Y=570227
LAT.: N 32.5662032
LONG.: W 103.7390451
NAD 1927
X=683240 Y=570164
LAT.: N 32.566018
LONG.: W 103.7385490
100' FSL 1979' FWL



FED PERF. POINT (FPP)

NEW MEXICO EAST
NAD 1983
X=724389 Y=575414
LAT.: N 32.5804614
LONG.: W 103.7390533
NAD 1927
X=683208 Y=575351
LAT.: N 32.5803398
LONG.: W 103.7385566
0' FSL 1979' FWL

LAST TAKE POINT (LTP)

NEW MEXICO EAST
NAD 1983
X=724363 Y=580593
LAT.: N 32.5946987
LONG.: W 103.7390413
NAD 1927
X=683183 Y=580531
LAT.: N 32.5945773
LONG.: W 103.7385441
100' FNL 1979' FWL

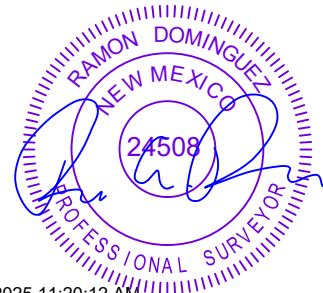
BOTTOM HOLE LOCATION (BHL)

NEW MEXICO EAST
NAD 1983
X=724363 Y=580688
LAT.: N 32.5949599
LONG.: W 103.7390412
NAD 1927
X=683183 Y=580626
LAT.: N 32.5948854
LONG.: W 103.7385440
5' FNL 1979' FWL

SURVEYORS CERTIFICATION

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

Date of Survey
Signature and Seal of Professional Surveyor:



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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 425411

CONDITIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 425411
	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	Administrative order required for non-standard spacing unit prior to production.	1/30/2025
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing.	1/30/2025