

Well Name: DOUBLE STAMP FED COM	Well Location: T20S / R32E / SEC 14 / SESW / 32.5675077 / -103.7402284	County or Parish/State: LEA / NM
Well Number: 115H	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: 2831198

Type of Submission: Notice of Intent Type of Action: APD Change

Date Sundry Submitted: 01/10/2025 Time Sundry Submitted: 01:52

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: 115H – Sundry ID #2831198 (30-025-53999) 1) SHL is unchanged. 2) Proposed KOP is Section 14, T20S, R32E @ 50’FSL / 1649’ FWL. 3) Proposed FTP is Section 14, T20S, R32E @ 100’ FSL / 1649’ FWL. 4) Proposed LTP is Section 11, T20S, R32E @ 100’ FNL / 1649’ FWL. 5) Proposed BHL is Section 11, T20S, R32E @ 5’ FNL / 1649’ FWL. *Note – 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__115H_01.10.2025_20250110135209.pdf
- Double_Stamp_Fed_Com_115H_Directional_Plan_01.10.2025_20250110135154.pdf
- Double_Stamp_Fed_Com_115H_AC_01.10.2025_20250110135142.pdf
- DOUBLE_STAMP_FED_COM_115H_C102_Revised_01.09.2025_20250110135130.pdf

Received by OCD: 1/27/2025 7:58:26 PM

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Well Name: DOUBLE STAMP FED COM	Well Location: T20S / R32E / SEC 14 / SESW / 32.5675077 / -103.7402284	County or Parish/State: LEA / NM
Well Number: 115H	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 01:52 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
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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

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 / 574 FSL / 1615 FWL / TWSP: 20S / RANGE: 32E / SECTION: 14 / LAT: 32.5675077 / LONG: -103.7402284 (TVD: 0 feet, MD: 0 feet)

PPP: SWSW / 100 FSL / 1254 FWL / TWSP: 20S / RANGE: 32E / SECTION: 14 / LAT: 32.5662071 / LONG: -103.7413984 (TVD: 9022 feet, MD: 9398 feet)

BHL: NWNW / 5 FNL / 1254 FWL / TWSP: 20S / RANGE: 32E / SECTION: 11 / LAT: 32.5949542 / LONG: -103.7413953 (TVD: 9983 feet, MD: 19330 feet)



Drilling Operations Plan
 Double Stamp Fed Com #115H
 Civitas Permian Operating, LLC
 SHL 574' FSL & 1615' FWL, Sec. 14
 BHL 5' FNL & 1649' 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	1,500	1,500	Surface	Anhydrite
Top Salt	1,760	2,931	Salt	Salt
Yates	2,925	2,391	Sandstone	None
Capitan Reef Complex	3,564	3,573	Carbonate	None
DMG	4,635	4,650	Sandstone	None
Brushy Canyon	7,415	7,439	Sandstone	Hydrocarbons
Bone Spring Lime	7,740	7,765	Limestone	Hydrocarbons
Upper Avalon	7,795	7,822	Carbonate	Hydrocarbons
Middle Avalon	8,205	8,230	Carbonate	Hydrocarbons
Lower Avalon	8,540	8,570	Carbonate	Hydrocarbons
1st BS Sand	8,765	8,855	Sandstone	Hydrocarbons
KOP	8,321	8,347	Carbonate	Hydrocarbons
TD	8,860	19,175	Sandstone	Hydrocarbons

2. Notable Zones

1st Bone Spring Sand is the formation target.

3. Pressure Control

Pressure Control Equipment (See Schematics):

At 19,175', 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:

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.



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T20S, R32E Lea County, NM

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	1,525	16	API	No	0	1,525	0	1,525	J-55	75	BTC	1.13	1.15	1.6
1st Intermediate	14 3/4	1,525	2,441	11 3/4	API	No	0	2,441	0	2,825	J-55	47	BTC	1.13	1.15	1.6
2nd Intermediate	10 5/8	2,441	4,500	8 5/8	API	No	0	4,500	0	4,485	J-55	32	BTC	1.13	1.15	1.6
Production	7 7/8	4,500	19,175	5 1/2	NON API	No	0	19,175	0	8,860	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	979	1.72	1684	13.5	75%	C	5% NCI + LCM
	Tail	1225	310	1.33	412	14.8	75%	C	5% NCI + LCM
1st Intermediate	Lead	0	334	2.72	909	11.0	65%	C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	1741	229	1.72	394	13.5	30%	C	5% NaCl + LCM
2nd Intermediate	Lead	0	372	2.72	1013	11.0	65%	C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	3500	159	1.72	273	13.5	30%	C	5% NaCl + LCM
Production	Lead	4300	217	3.38	732	10.5	20%	C	Fluid Loss + Dispersant + Retarder + LCM
	Tail	7847	2122	1.44	3055	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	1,525	FW Spud Mud	8.40	28	NC
1st Intermediate	1,525	2,441	Brine Water	10.00	27-30	NC
2nd Intermediate	2,441	4,500	FW/Cut Brine	9.00	27-30	NC
Production	4,500	19,175	FW/Cut Brine	9.00	27-30	NC

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

6. Cores, Tests, & Logs

- Electric Logging Program: No open-hole logs are planned at this time.



CIVITAS

Drilling Operations Plan
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 SHL 574' FSL & 1615' FWL, Sec. 14
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 T20S, R32E Lea County, NM

- 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 $\approx 4,186$ psi. Expected bottom hole temperature is $\approx 160^{\circ}$ F.

Civitas does not anticipate that there will be enough H₂S from the surface to the 1st 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.

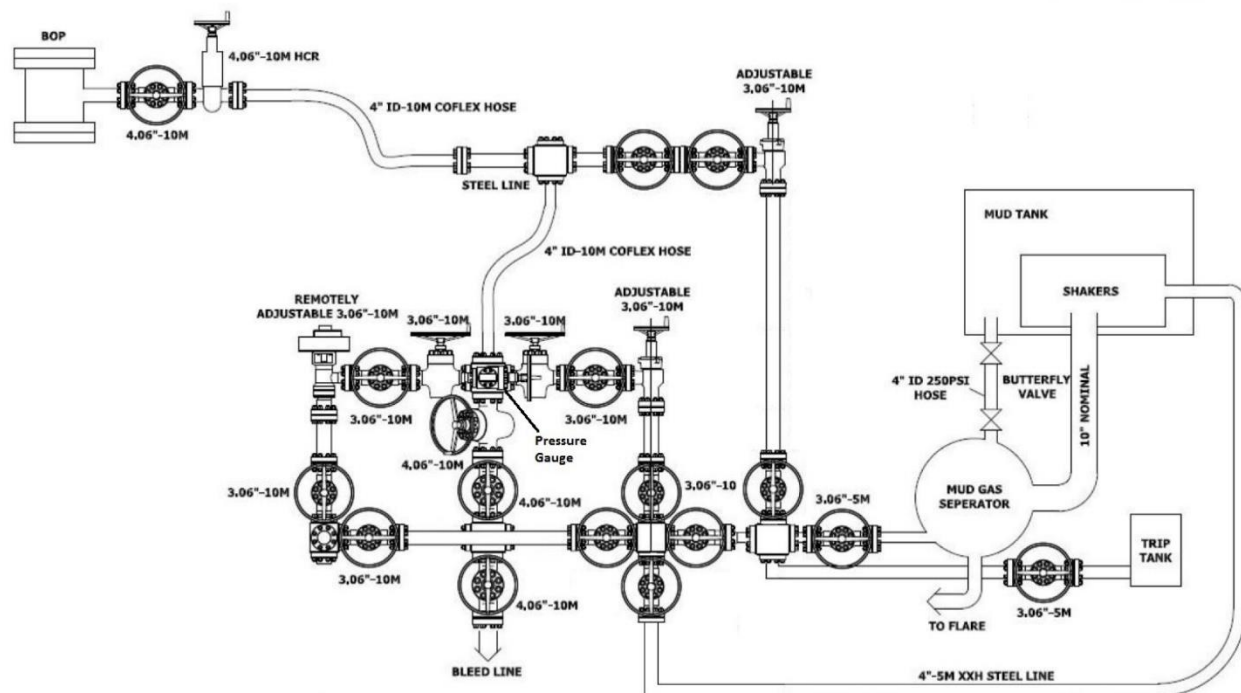
- A. **Anticollision:** While drilling a SF of 1.0 will be maintained for any active or inactive well through the salt interval. For any wells that have only inclination surveys, maintaining a 300' center-to-center will be done.
- B. **Centralization:**
 - a. **Surface:**
 - i. One centralizer per joint 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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10M Choke Layout

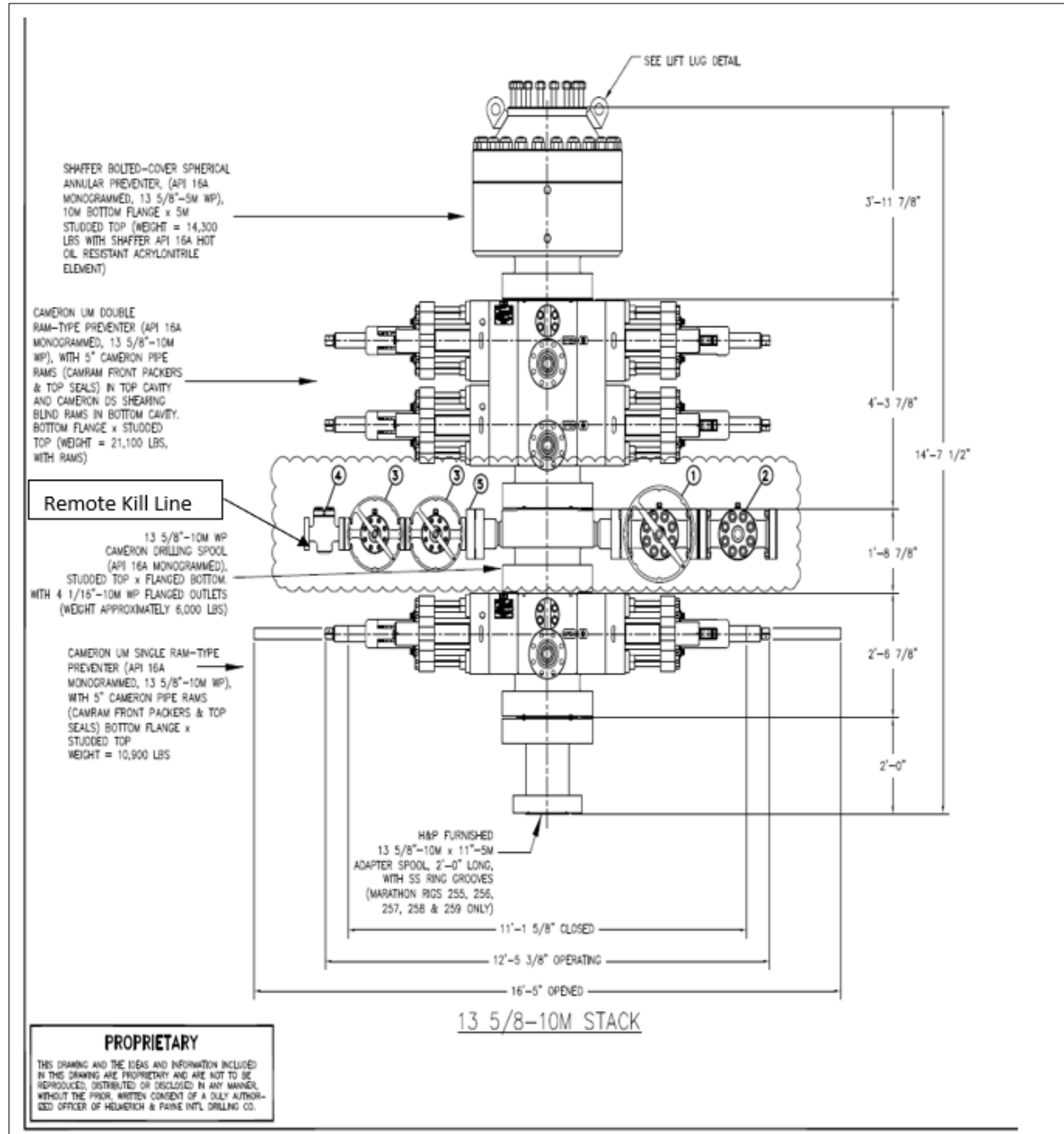




CIVITAS

Drilling Operations Plan Double Stamp Fed Com #115H Civitas Permian Operating, LLC SHL 574' FSL & 1615' FWL, Sec. 14 BHL 5' FNL & 1649' FWL, Sec. 11 T20S, R32E Lea County, NM

10,000 psi BOP Stack





CIVITAS

Drilling Operations Plan

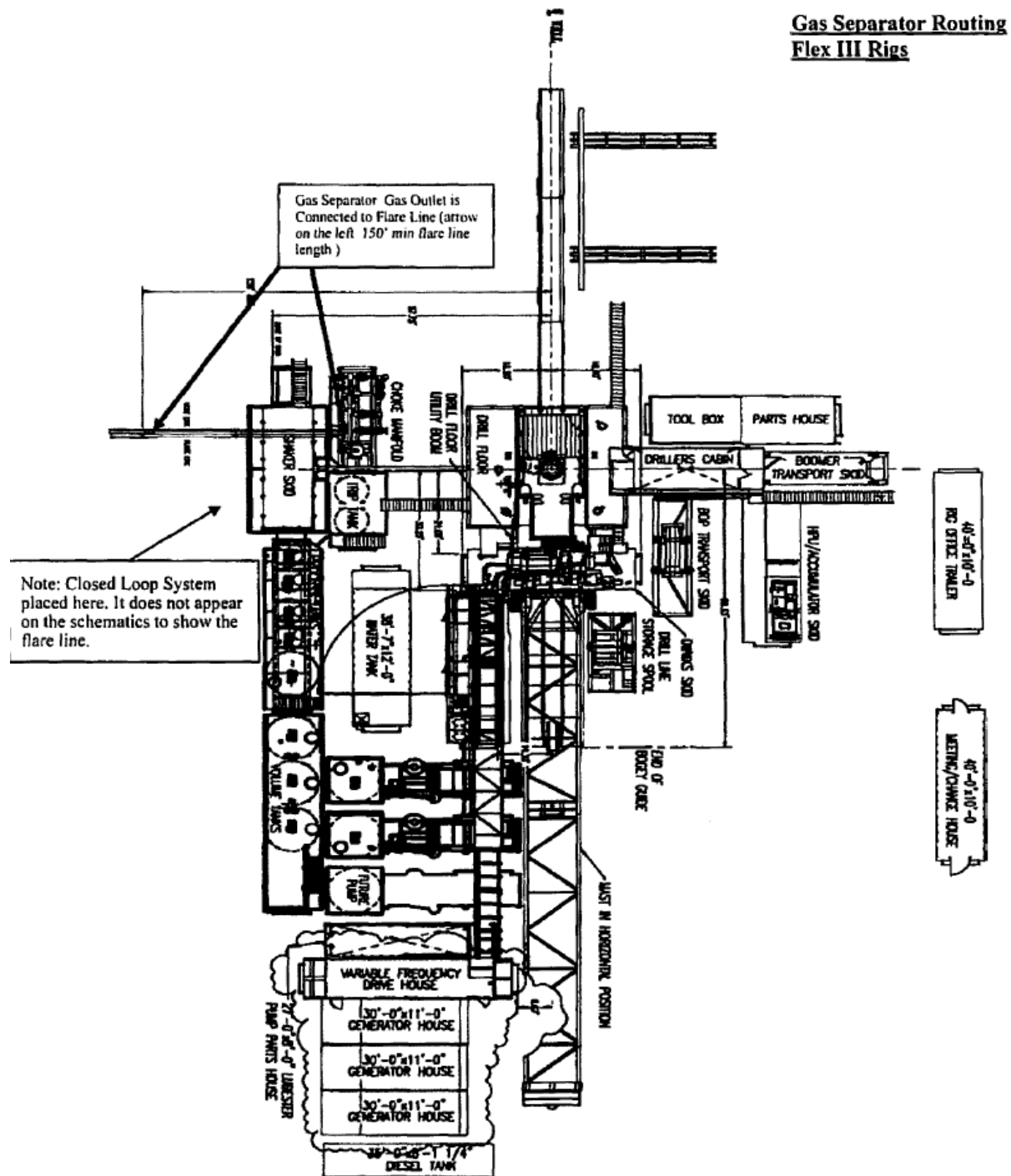
Double Stamp Fed Com #115H

Civitas Permian Operating, LLC

SHL 574' FSL & 1615' FWL, Sec. 14

BHL 5' FNL & 1649' FWL, Sec. 11

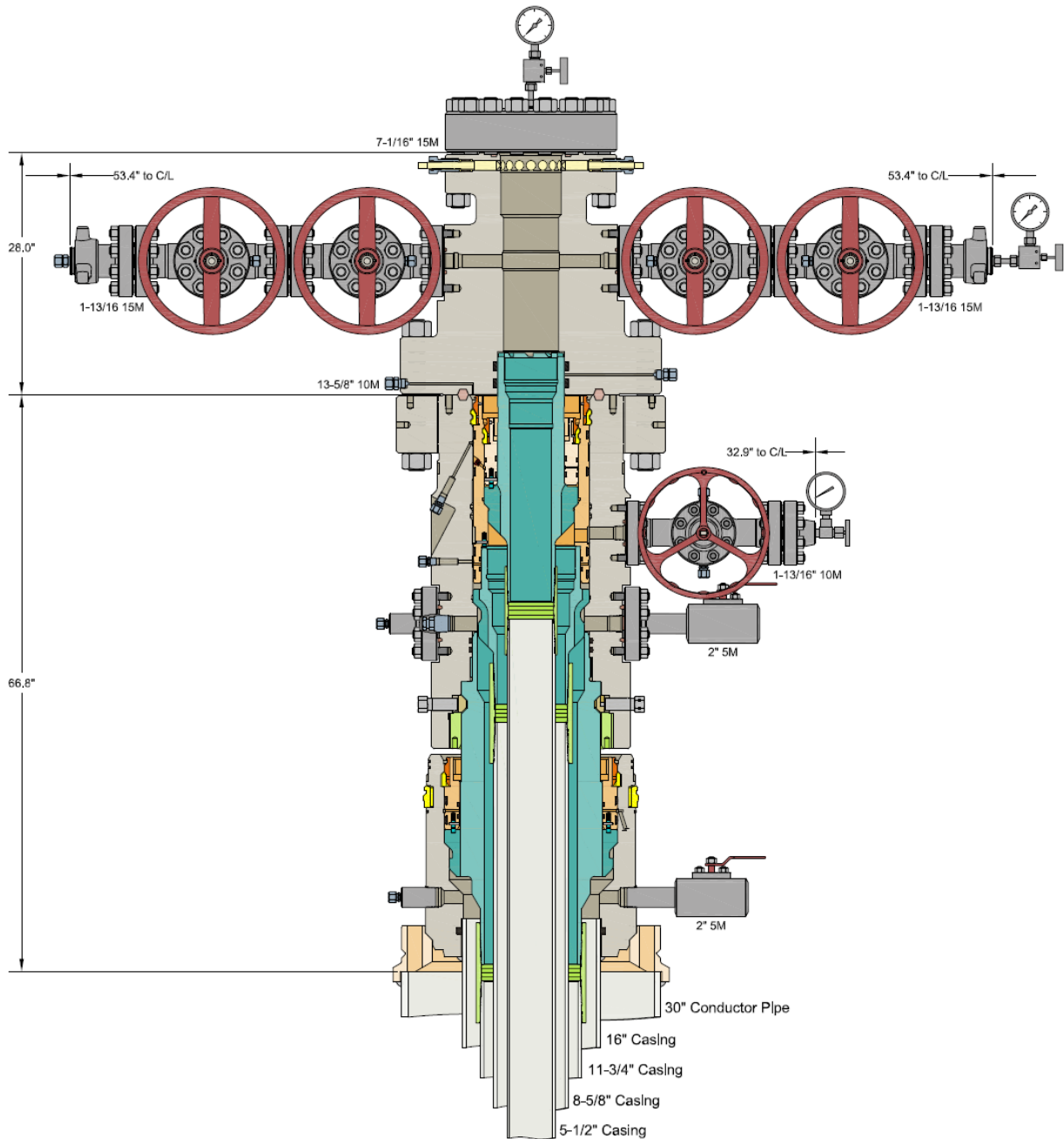
T20S, R32E Lea County, NM





Drilling Operations Plan
Double Stamp Fed Com #115H
Civitas Permian Operating, LLC
SHL 574' FSL & 1615' FWL, Sec. 14
BHL 5' FNL & 1649' FWL, Sec. 11
T20S, R32E Lea County, NM

Multi-bowl Wellhead Design





Company: Civitas Permian Operating, LLC
Well: Double Stamp Fed Com 115H
County: Lea County, New Mexico (NAD 83)
Rig: H&P 264
Wellbore: Wellbore #1
Design: Design #1
Date: 15:23, 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 115H

Target Data Ver. 1

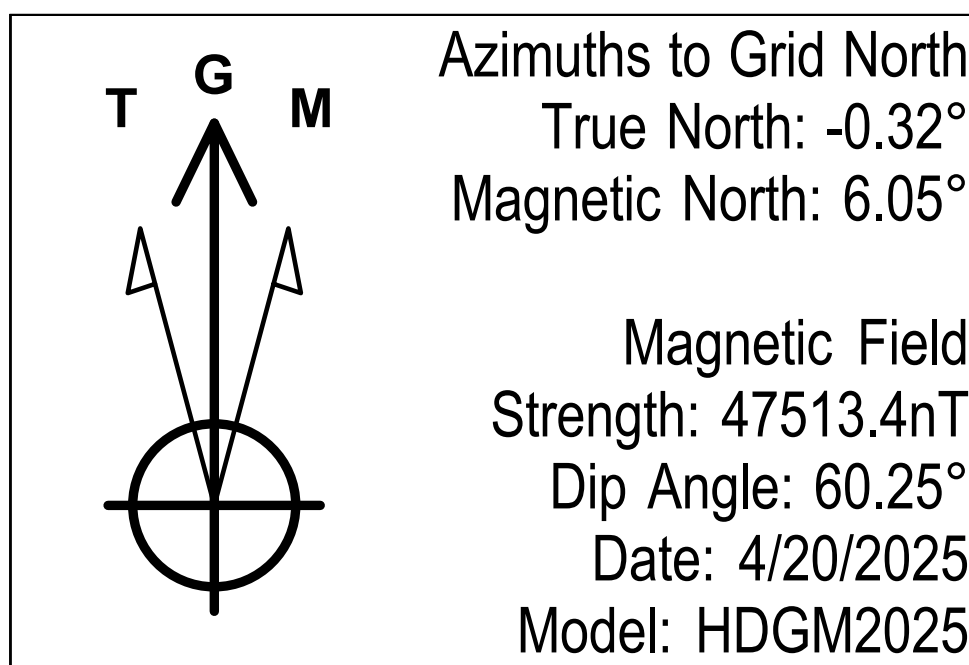
TVD	VS	INC
8895	0	90.2

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP v1_Double Stamp Fed Com 115H	8532.16	-473.73	37.20	570225.31	724090.08	32.566205	-103.740116
KOP v1_Double Stamp Fed Com 115H	8321.83	-523.73	37.50	570175.31	724090.38	32.566068	-103.740116
LTP v1_Double Stamp Fed Com 115H	8860.47	9891.65	-19.53	580590.69	724033.35	32.594696	-103.740113
PBHL v1_Double Stamp Fed Com 115H	8860.14	9986.64	-20.06	580685.69	724032.83	32.594957	-103.740113

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.000	0.00	KOP, 1.00°/100' Build
2100.18	6.00	175.83	2099.08	-31.32	2.28	1.00	175.834	-31.34	Hold 6.00° Inc, 175.83° Azm
6425.72	6.00	175.83	6400.92	-482.41	35.14	0.00	0.000	-482.59	Begin 1.00°/100' Drop
7025.90	0.00	0.00	7000.00	-513.73	37.42	1.00	180.000	-513.92	Begin Vertical Hold
8347.73	0.00	0.00	8321.83	-513.73	37.42	0.00	0.000	-513.92	Begin 10.00°/100' Build
9249.73	90.20	359.69	8894.78	61.22	34.27	10.00	359.686	61.03	Hold 90.20° Inc, 359.69° Azm
19175.37	90.20	359.69	8860.14	9986.64	-20.06	0.00	0.000	9986.61	PBHL



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

Magnetic Field
Strength: 47513.4nT
Dip Angle: 60.25°
Date: 4/20/2025
Model: HDGM2025

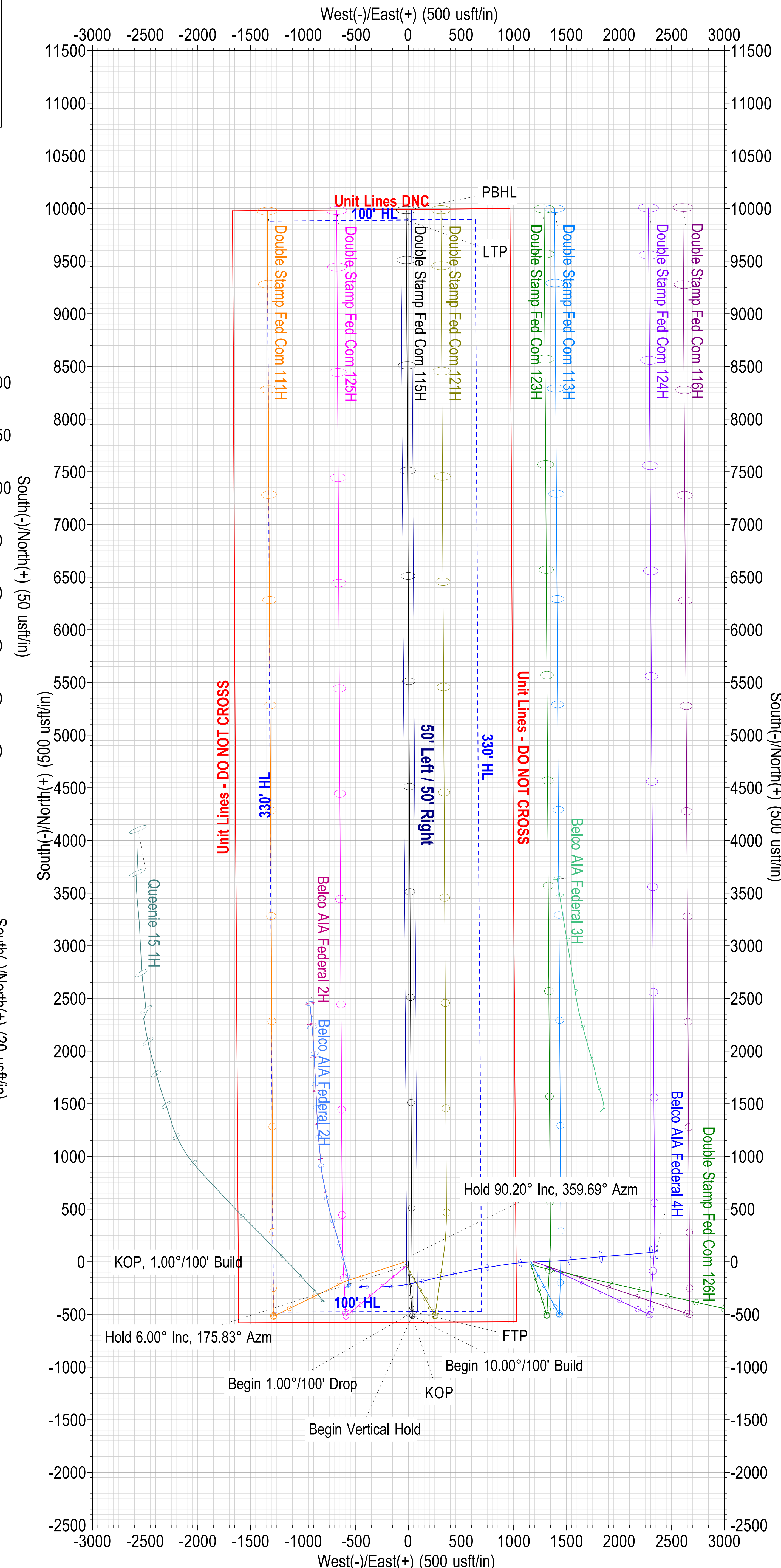
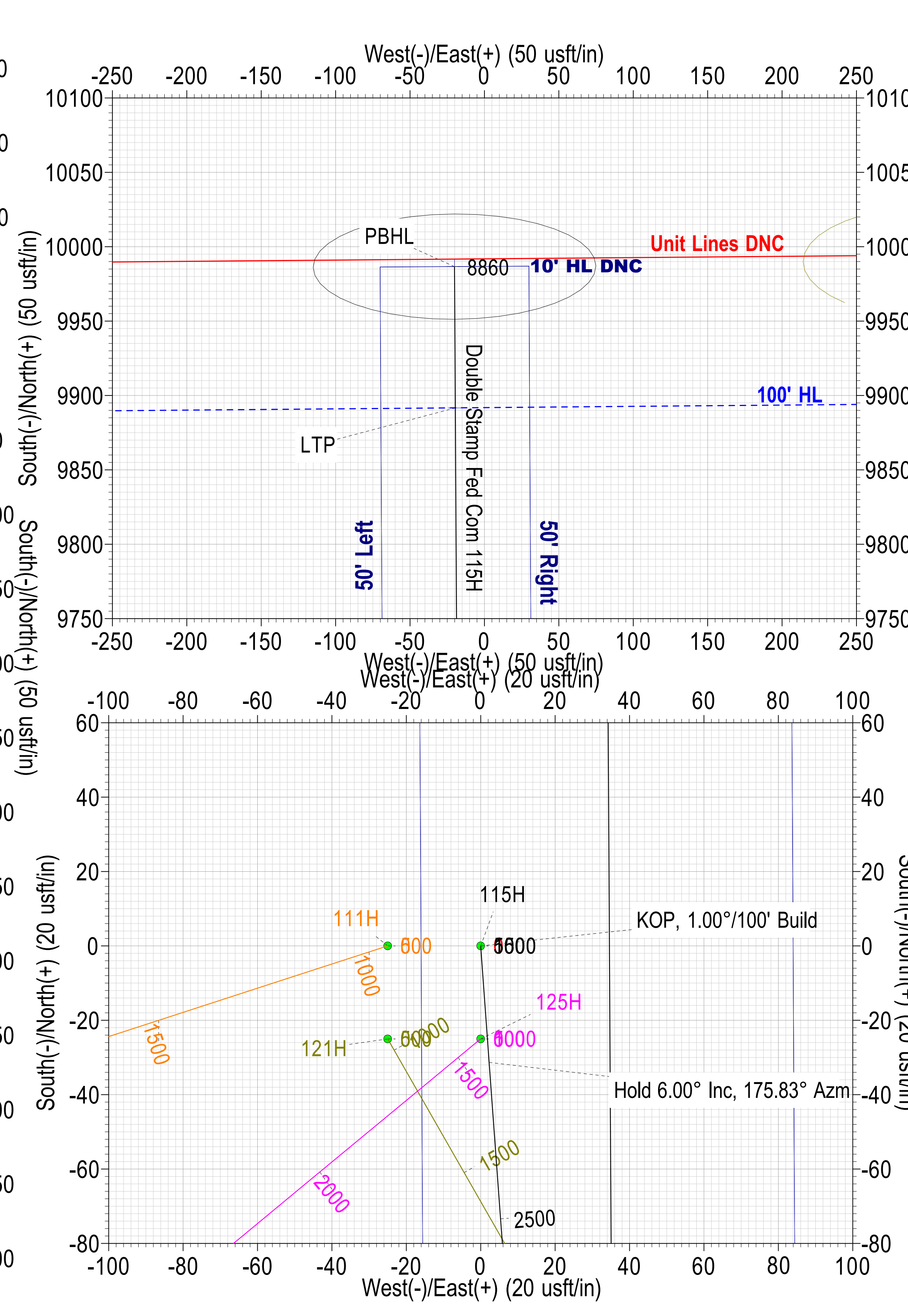
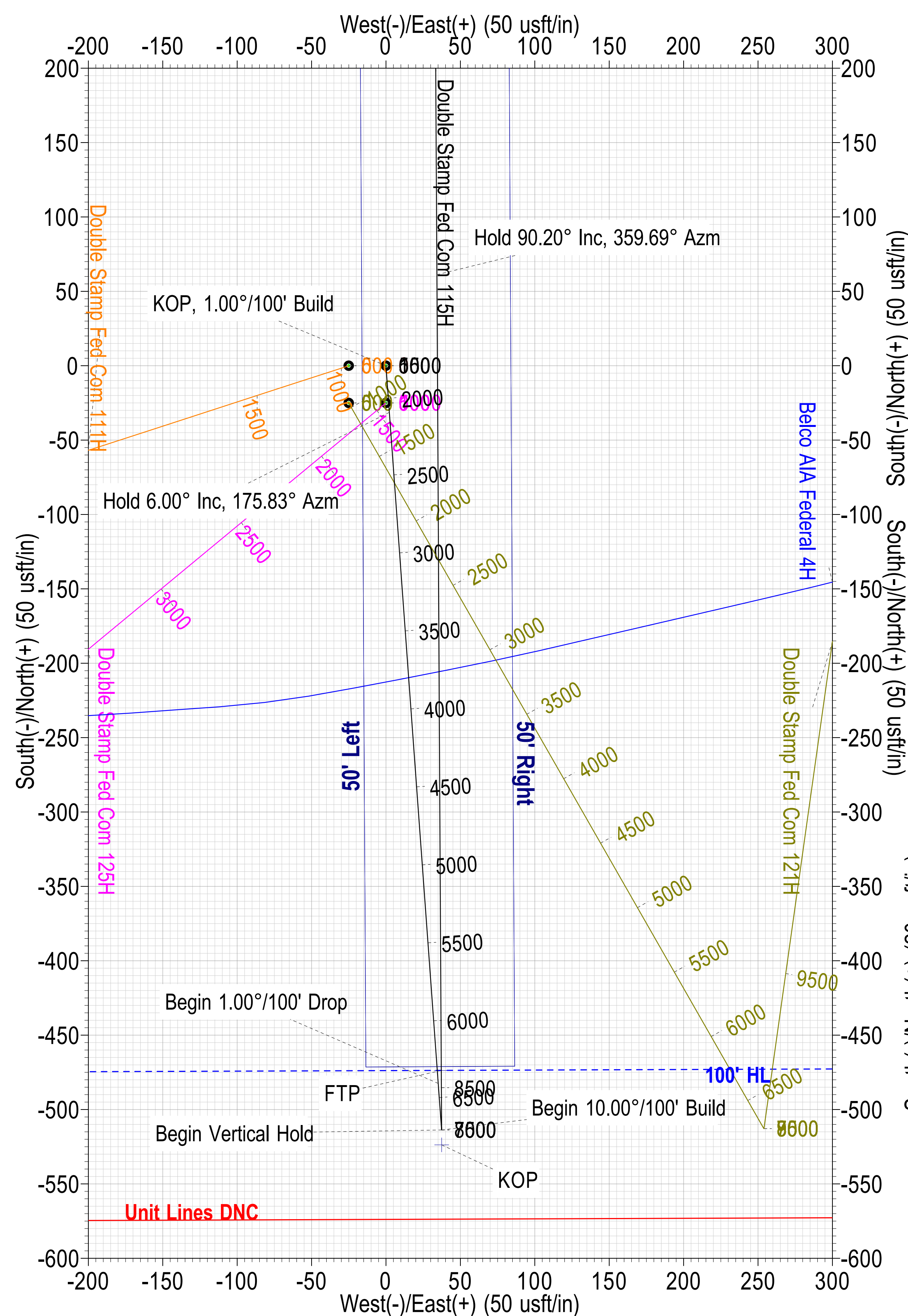
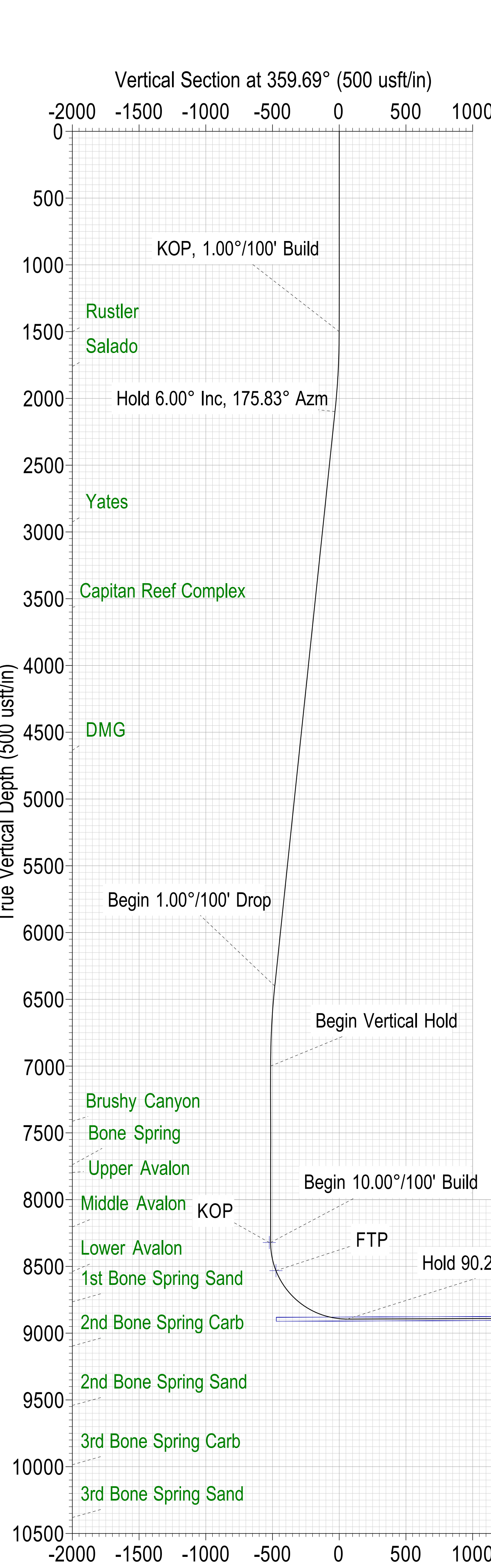
WELL DETAILS: Double Stamp Fed Com 115H

+N/-S	+E/-W	GL @ 3531.00	WELL @ 3557.50usft (H&P 264)
0.00	0.00	Northing 570699.04	Easting 724052.89 Latitude 32.567508 Longitude -103.740228



SURVEY PROGRAM

Depth From	Depth To	Survey/Plan	Tool
0.00	19175.37	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 115H

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 115H
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 115H	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
From:	Map	Easting:	724,027.88 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.567508
		Longitude:	-103.740310

Well	Double Stamp Fed Com 115H		
Well Position	+N/-S	0.00 usft	Northing: 570,699.05 usft
	+E/-W	0.00 usft	Easting: 724,052.88 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
Grid Convergence:	0.319 °	Ground Level:	3,531.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2025	4/20/2025	6.367	60.250	47,513.400

Design	Design #1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	359.69	

Plan Survey Tool Program	Date	1/8/2025			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	19,175.37	Design #1 (Wellbore #1)	MWD+IFR1+SAG+FDIR	
				OWSG MWD + IFR1 + Sag	

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		
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.000		
2,100.18	6.00	175.83	2,099.08	-31.32	2.28	1.00	1.00	0.00	175.834		
6,425.72	6.00	175.83	6,400.92	-482.41	35.14	0.00	0.00	0.00	0.000		
7,025.90	0.00	0.00	7,000.00	-513.73	37.42	1.00	-1.00	0.00	180.000		
8,347.73	0.00	0.00	8,321.83	-513.73	37.42	0.00	0.00	0.00	0.000		
9,249.73	90.20	359.69	8,894.78	61.22	34.27	10.00	10.00	-0.03	359.686		
19,175.37	90.20	359.69	8,860.14	9,986.64	-20.06	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 115H
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 115H	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
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, 1.00°/100' Build									
1,500.20	0.00	0.00	1,500.20	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
1,600.00	1.00	175.83	1,599.99	-0.87	0.06	-0.87	1.00	1.00	0.00
1,700.00	2.00	175.83	1,699.96	-3.48	0.25	-3.48	1.00	1.00	0.00
1,760.59	2.61	175.83	1,760.50	-5.91	0.43	-5.91	1.00	1.00	0.00
Salado									
1,800.00	3.00	175.83	1,799.86	-7.83	0.57	-7.83	1.00	1.00	0.00
1,900.00	4.00	175.83	1,899.68	-13.92	1.01	-13.93	1.00	1.00	0.00
2,000.00	5.00	175.83	1,999.37	-21.75	1.58	-21.75	1.00	1.00	0.00
2,100.18	6.00	175.83	2,099.08	-31.32	2.28	-31.34	1.00	1.00	0.00
Hold 6.00° Inc, 175.83° Azm									
2,200.00	6.00	175.83	2,198.36	-41.73	3.04	-41.75	0.00	0.00	0.00
2,300.00	6.00	175.83	2,297.81	-52.16	3.80	-52.18	0.00	0.00	0.00
2,400.00	6.00	175.83	2,397.26	-62.59	4.56	-62.61	0.00	0.00	0.00
2,500.00	6.00	175.83	2,496.71	-73.02	5.32	-73.05	0.00	0.00	0.00
2,600.00	6.00	175.83	2,596.16	-83.45	6.08	-83.48	0.00	0.00	0.00
2,700.00	6.00	175.83	2,695.62	-93.87	6.84	-93.91	0.00	0.00	0.00
2,800.00	6.00	175.83	2,795.07	-104.30	7.60	-104.34	0.00	0.00	0.00
2,900.00	6.00	175.83	2,894.52	-114.73	8.36	-114.77	0.00	0.00	0.00
2,931.15	6.00	175.83	2,925.50	-117.98	8.59	-118.02	0.00	0.00	0.00
Yates									
3,000.00	6.00	175.83	2,993.97	-125.16	9.12	-125.21	0.00	0.00	0.00
3,100.00	6.00	175.83	3,093.42	-135.59	9.88	-135.64	0.00	0.00	0.00
3,200.00	6.00	175.83	3,192.87	-146.02	10.63	-146.07	0.00	0.00	0.00
3,300.00	6.00	175.83	3,292.33	-156.44	11.39	-156.50	0.00	0.00	0.00
3,400.00	6.00	175.83	3,391.78	-166.87	12.15	-166.94	0.00	0.00	0.00
3,500.00	6.00	175.83	3,491.23	-177.30	12.91	-177.37	0.00	0.00	0.00
3,573.17	6.00	175.83	3,564.00	-184.93	13.47	-185.00	0.00	0.00	0.00
Capitan Reef Complex									
3,600.00	6.00	175.83	3,590.68	-187.73	13.67	-187.80	0.00	0.00	0.00
3,700.00	6.00	175.83	3,690.13	-198.16	14.43	-198.23	0.00	0.00	0.00
3,800.00	6.00	175.83	3,789.59	-208.59	15.19	-208.67	0.00	0.00	0.00
3,900.00	6.00	175.83	3,889.04	-219.02	15.95	-219.10	0.00	0.00	0.00
4,000.00	6.00	175.83	3,988.49	-229.44	16.71	-229.53	0.00	0.00	0.00
4,100.00	6.00	175.83	4,087.94	-239.87	17.47	-239.96	0.00	0.00	0.00
4,200.00	6.00	175.83	4,187.39	-250.30	18.23	-250.40	0.00	0.00	0.00



MS Directional Planning Report



Database:	TRG_EDMConroe	Local Co-ordinate Reference:	Well Double Stamp Fed Com 115H
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 115H	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)
4,300.00	6.00	175.83	4,286.84	-260.73	18.99	-260.83	0.00	0.00	0.00
4,400.00	6.00	175.83	4,386.30	-271.16	19.75	-271.26	0.00	0.00	0.00
4,500.00	6.00	175.83	4,485.75	-281.59	20.51	-281.69	0.00	0.00	0.00
4,600.00	6.00	175.83	4,585.20	-292.01	21.27	-292.12	0.00	0.00	0.00
4,650.17	6.00	175.83	4,635.10	-297.25	21.65	-297.36	0.00	0.00	0.00
DMG									
4,700.00	6.00	175.83	4,684.65	-302.44	22.03	-302.56	0.00	0.00	0.00
4,800.00	6.00	175.83	4,784.10	-312.87	22.79	-312.99	0.00	0.00	0.00
4,900.00	6.00	175.83	4,883.56	-323.30	23.55	-323.42	0.00	0.00	0.00
5,000.00	6.00	175.83	4,983.01	-333.73	24.31	-333.85	0.00	0.00	0.00
5,100.00	6.00	175.83	5,082.46	-344.16	25.07	-344.29	0.00	0.00	0.00
5,200.00	6.00	175.83	5,181.91	-354.58	25.83	-354.72	0.00	0.00	0.00
5,300.00	6.00	175.83	5,281.36	-365.01	26.59	-365.15	0.00	0.00	0.00
5,400.00	6.00	175.83	5,380.82	-375.44	27.34	-375.58	0.00	0.00	0.00
5,500.00	6.00	175.83	5,480.27	-385.87	28.10	-386.02	0.00	0.00	0.00
5,600.00	6.00	175.83	5,579.72	-396.30	28.86	-396.45	0.00	0.00	0.00
5,700.00	6.00	175.83	5,679.17	-406.73	29.62	-406.88	0.00	0.00	0.00
5,800.00	6.00	175.83	5,778.62	-417.15	30.38	-417.31	0.00	0.00	0.00
5,900.00	6.00	175.83	5,878.07	-427.58	31.14	-427.74	0.00	0.00	0.00
6,000.00	6.00	175.83	5,977.53	-438.01	31.90	-438.18	0.00	0.00	0.00
6,100.00	6.00	175.83	6,076.98	-448.44	32.66	-448.61	0.00	0.00	0.00
6,200.00	6.00	175.83	6,176.43	-458.87	33.42	-459.04	0.00	0.00	0.00
6,300.00	6.00	175.83	6,275.88	-469.30	34.18	-469.47	0.00	0.00	0.00
6,400.00	6.00	175.83	6,375.33	-479.72	34.94	-479.91	0.00	0.00	0.00
6,425.72	6.00	175.83	6,400.92	-482.41	35.14	-482.59	0.00	0.00	0.00
Begin 1.00°/100' Drop									
6,500.00	5.26	175.83	6,474.83	-489.67	35.67	-489.86	1.00	-1.00	0.00
6,600.00	4.26	175.83	6,574.49	-497.95	36.27	-498.14	1.00	-1.00	0.00
6,700.00	3.26	175.83	6,674.27	-504.49	36.74	-504.68	1.00	-1.00	0.00
6,800.00	2.26	175.83	6,774.15	-509.29	37.09	-509.48	1.00	-1.00	0.00
6,900.00	1.26	175.83	6,874.11	-512.35	37.32	-512.54	1.00	-1.00	0.00
7,000.00	0.26	175.83	6,974.10	-513.67	37.41	-513.87	1.00	-1.00	0.00
7,025.90	0.00	0.00	7,000.00	-513.73	37.42	-513.92	1.00	-1.00	0.00
Begin Vertical Hold									
7,100.00	0.00	0.00	7,074.10	-513.73	37.42	-513.92	0.00	0.00	0.00
7,200.00	0.00	0.00	7,174.10	-513.73	37.42	-513.92	0.00	0.00	0.00
7,300.00	0.00	0.00	7,274.10	-513.73	37.42	-513.92	0.00	0.00	0.00
7,400.00	0.00	0.00	7,374.10	-513.73	37.42	-513.92	0.00	0.00	0.00
7,439.60	0.00	0.00	7,413.70	-513.73	37.42	-513.92	0.00	0.00	0.00
Brushy Canyon									
7,500.00	0.00	0.00	7,474.10	-513.73	37.42	-513.92	0.00	0.00	0.00
7,600.00	0.00	0.00	7,574.10	-513.73	37.42	-513.92	0.00	0.00	0.00
7,700.00	0.00	0.00	7,674.10	-513.73	37.42	-513.92	0.00	0.00	0.00
7,765.00	0.00	0.00	7,739.10	-513.73	37.42	-513.92	0.00	0.00	0.00
Bone Spring									
7,800.00	0.00	0.00	7,774.10	-513.73	37.42	-513.92	0.00	0.00	0.00
7,822.50	0.00	0.00	7,796.60	-513.73	37.42	-513.92	0.00	0.00	0.00
Upper Avalon									
7,900.00	0.00	0.00	7,874.10	-513.73	37.42	-513.92	0.00	0.00	0.00
8,000.00	0.00	0.00	7,974.10	-513.73	37.42	-513.92	0.00	0.00	0.00
8,100.00	0.00	0.00	8,074.10	-513.73	37.42	-513.92	0.00	0.00	0.00
8,200.00	0.00	0.00	8,174.10	-513.73	37.42	-513.92	0.00	0.00	0.00
8,230.70	0.00	0.00	8,204.80	-513.73	37.42	-513.92	0.00	0.00	0.00



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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 115H	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)
Middle Avalon									
8,300.00	0.00	0.00	8,274.10	-513.73	37.42	-513.92	0.00	0.00	0.00
8,347.73	0.00	0.00	8,321.83	-513.73	37.42	-513.92	0.00	0.00	0.00
Begin 10.00°/100' Build									
8,350.00	0.23	359.69	8,324.10	-513.73	37.42	-513.92	10.00	10.00	0.00
8,400.00	5.23	359.69	8,374.02	-511.35	37.40	-511.54	10.00	10.00	0.00
8,450.00	10.23	359.69	8,423.55	-504.63	37.37	-504.82	10.00	10.00	0.00
8,500.00	15.23	359.69	8,472.31	-493.62	37.31	-493.81	10.00	10.00	0.00
8,550.00	20.23	359.69	8,519.92	-478.40	37.22	-478.59	10.00	10.00	0.00
8,570.58	22.28	359.69	8,539.10	-470.94	37.18	-471.13	10.00	10.00	0.00
Lower Avalon									
8,600.00	25.23	359.69	8,566.02	-459.09	37.12	-459.28	10.00	10.00	0.00
8,650.00	30.23	359.69	8,610.27	-435.83	36.99	-436.03	10.00	10.00	0.00
8,700.00	35.23	359.69	8,652.32	-408.81	36.84	-409.00	10.00	10.00	0.00
8,750.00	40.23	359.69	8,691.85	-378.23	36.68	-378.42	10.00	10.00	0.00
8,800.00	45.23	359.69	8,728.57	-344.31	36.49	-344.50	10.00	10.00	0.00
8,850.00	50.23	359.69	8,762.19	-307.33	36.29	-307.52	10.00	10.00	0.00
8,855.20	50.75	359.69	8,765.50	-303.32	36.27	-303.51	10.00	10.00	0.00
1st Bone Spring Sand									
8,900.00	55.23	359.69	8,792.47	-267.55	36.07	-267.74	10.00	10.00	0.00
8,950.00	60.23	359.69	8,819.16	-225.29	35.84	-225.48	10.00	10.00	0.00
9,000.00	65.23	359.69	8,842.06	-180.86	35.60	-181.05	10.00	10.00	0.00
9,050.00	70.23	359.69	8,861.01	-134.61	35.34	-134.80	10.00	10.00	0.00
9,100.00	75.23	359.69	8,875.85	-86.88	35.08	-87.07	10.00	10.00	0.00
9,150.00	80.23	359.69	8,886.47	-38.04	34.81	-38.23	10.00	10.00	0.00
9,200.00	85.23	359.69	8,892.80	11.54	34.54	11.35	10.00	10.00	0.00
9,249.73	90.20	359.69	8,894.78	61.22	34.27	61.03	10.00	10.00	0.00
Hold 90.20° Inc, 359.69° Azm									
9,300.00	90.20	359.69	8,894.61	111.48	34.00	111.30	0.00	0.00	0.00
9,400.00	90.20	359.69	8,894.26	211.48	33.45	211.30	0.00	0.00	0.00
9,500.00	90.20	359.69	8,893.91	311.48	32.90	311.30	0.00	0.00	0.00
9,600.00	90.20	359.69	8,893.56	411.48	32.35	411.30	0.00	0.00	0.00
9,700.00	90.20	359.69	8,893.21	511.48	31.81	511.30	0.00	0.00	0.00
9,800.00	90.20	359.69	8,892.86	611.47	31.26	611.30	0.00	0.00	0.00
9,900.00	90.20	359.69	8,892.51	711.47	30.71	711.29	0.00	0.00	0.00
10,000.00	90.20	359.69	8,892.17	811.47	30.16	811.29	0.00	0.00	0.00
10,100.00	90.20	359.69	8,891.82	911.47	29.62	911.29	0.00	0.00	0.00
10,200.00	90.20	359.69	8,891.47	1,011.47	29.07	1,011.29	0.00	0.00	0.00
10,300.00	90.20	359.69	8,891.12	1,111.46	28.52	1,111.29	0.00	0.00	0.00
10,400.00	90.20	359.69	8,890.77	1,211.46	27.97	1,211.29	0.00	0.00	0.00
10,500.00	90.20	359.69	8,890.42	1,311.46	27.43	1,311.29	0.00	0.00	0.00
10,600.00	90.20	359.69	8,890.07	1,411.46	26.88	1,411.29	0.00	0.00	0.00
10,700.00	90.20	359.69	8,889.72	1,511.45	26.33	1,511.29	0.00	0.00	0.00
10,800.00	90.20	359.69	8,889.37	1,611.45	25.79	1,611.29	0.00	0.00	0.00
10,900.00	90.20	359.69	8,889.02	1,711.45	25.24	1,711.29	0.00	0.00	0.00
11,000.00	90.20	359.69	8,888.68	1,811.45	24.69	1,811.29	0.00	0.00	0.00
11,100.00	90.20	359.69	8,888.33	1,911.45	24.14	1,911.29	0.00	0.00	0.00
11,200.00	90.20	359.69	8,887.98	2,011.44	23.60	2,011.29	0.00	0.00	0.00
11,300.00	90.20	359.69	8,887.63	2,111.44	23.05	2,111.29	0.00	0.00	0.00
11,400.00	90.20	359.69	8,887.28	2,211.44	22.50	2,211.29	0.00	0.00	0.00
11,500.00	90.20	359.69	8,886.93	2,311.44	21.95	2,311.29	0.00	0.00	0.00
11,600.00	90.20	359.69	8,886.58	2,411.44	21.41	2,411.28	0.00	0.00	0.00
11,700.00	90.20	359.69	8,886.23	2,511.43	20.86	2,511.28	0.00	0.00	0.00



MS Directional Planning Report



Database:	TRG_EDMConroe	Local Co-ordinate Reference:	Well Double Stamp Fed Com 115H
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 115H	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)
11,800.00	90.20	359.69	8,885.88	2,611.43	20.31	2,611.28	0.00	0.00	0.00
11,900.00	90.20	359.69	8,885.53	2,711.43	19.76	2,711.28	0.00	0.00	0.00
12,000.00	90.20	359.69	8,885.19	2,811.43	19.22	2,811.28	0.00	0.00	0.00
12,100.00	90.20	359.69	8,884.84	2,911.43	18.67	2,911.28	0.00	0.00	0.00
12,200.00	90.20	359.69	8,884.49	3,011.42	18.12	3,011.28	0.00	0.00	0.00
12,300.00	90.20	359.69	8,884.14	3,111.42	17.58	3,111.28	0.00	0.00	0.00
12,400.00	90.20	359.69	8,883.79	3,211.42	17.03	3,211.28	0.00	0.00	0.00
12,500.00	90.20	359.69	8,883.44	3,311.42	16.48	3,311.28	0.00	0.00	0.00
12,600.00	90.20	359.69	8,883.09	3,411.41	15.93	3,411.28	0.00	0.00	0.00
12,700.00	90.20	359.69	8,882.74	3,511.41	15.39	3,511.28	0.00	0.00	0.00
12,800.00	90.20	359.69	8,882.39	3,611.41	14.84	3,611.28	0.00	0.00	0.00
12,900.00	90.20	359.69	8,882.04	3,711.41	14.29	3,711.28	0.00	0.00	0.00
13,000.00	90.20	359.69	8,881.69	3,811.41	13.74	3,811.28	0.00	0.00	0.00
13,100.00	90.20	359.69	8,881.35	3,911.40	13.20	3,911.28	0.00	0.00	0.00
13,200.00	90.20	359.69	8,881.00	4,011.40	12.65	4,011.27	0.00	0.00	0.00
13,300.00	90.20	359.69	8,880.65	4,111.40	12.10	4,111.27	0.00	0.00	0.00
13,400.00	90.20	359.69	8,880.30	4,211.40	11.55	4,211.27	0.00	0.00	0.00
13,500.00	90.20	359.69	8,879.95	4,311.40	11.01	4,311.27	0.00	0.00	0.00
13,600.00	90.20	359.69	8,879.60	4,411.39	10.46	4,411.27	0.00	0.00	0.00
13,700.00	90.20	359.69	8,879.25	4,511.39	9.91	4,511.27	0.00	0.00	0.00
13,800.00	90.20	359.69	8,878.90	4,611.39	9.37	4,611.27	0.00	0.00	0.00
13,900.00	90.20	359.69	8,878.55	4,711.39	8.82	4,711.27	0.00	0.00	0.00
14,000.00	90.20	359.69	8,878.20	4,811.39	8.27	4,811.27	0.00	0.00	0.00
14,100.00	90.20	359.69	8,877.86	4,911.38	7.72	4,911.27	0.00	0.00	0.00
14,200.00	90.20	359.69	8,877.51	5,011.38	7.18	5,011.27	0.00	0.00	0.00
14,300.00	90.20	359.69	8,877.16	5,111.38	6.63	5,111.27	0.00	0.00	0.00
14,400.00	90.20	359.69	8,876.81	5,211.38	6.08	5,211.27	0.00	0.00	0.00
14,500.00	90.20	359.69	8,876.46	5,311.37	5.53	5,311.27	0.00	0.00	0.00
14,600.00	90.20	359.69	8,876.11	5,411.37	4.99	5,411.27	0.00	0.00	0.00
14,700.00	90.20	359.69	8,875.76	5,511.37	4.44	5,511.27	0.00	0.00	0.00
14,800.00	90.20	359.69	8,875.41	5,611.37	3.89	5,611.27	0.00	0.00	0.00
14,900.00	90.20	359.69	8,875.06	5,711.37	3.34	5,711.26	0.00	0.00	0.00
15,000.00	90.20	359.69	8,874.71	5,811.36	2.80	5,811.26	0.00	0.00	0.00
15,100.00	90.20	359.69	8,874.36	5,911.36	2.25	5,911.26	0.00	0.00	0.00
15,200.00	90.20	359.69	8,874.02	6,011.36	1.70	6,011.26	0.00	0.00	0.00
15,300.00	90.20	359.69	8,873.67	6,111.36	1.16	6,111.26	0.00	0.00	0.00
15,400.00	90.20	359.69	8,873.32	6,211.36	0.61	6,211.26	0.00	0.00	0.00
15,500.00	90.20	359.69	8,872.97	6,311.35	0.06	6,311.26	0.00	0.00	0.00
15,600.00	90.20	359.69	8,872.62	6,411.35	-0.49	6,411.26	0.00	0.00	0.00
15,700.00	90.20	359.69	8,872.27	6,511.35	-1.03	6,511.26	0.00	0.00	0.00
15,800.00	90.20	359.69	8,871.92	6,611.35	-1.58	6,611.26	0.00	0.00	0.00
15,900.00	90.20	359.69	8,871.57	6,711.35	-2.13	6,711.26	0.00	0.00	0.00
16,000.00	90.20	359.69	8,871.22	6,811.34	-2.68	6,811.26	0.00	0.00	0.00
16,100.00	90.20	359.69	8,870.87	6,911.34	-3.22	6,911.26	0.00	0.00	0.00
16,200.00	90.20	359.69	8,870.53	7,011.34	-3.77	7,011.26	0.00	0.00	0.00
16,300.00	90.20	359.69	8,870.18	7,111.34	-4.32	7,111.26	0.00	0.00	0.00
16,400.00	90.20	359.69	8,869.83	7,211.33	-4.87	7,211.26	0.00	0.00	0.00
16,500.00	90.20	359.69	8,869.48	7,311.33	-5.41	7,311.25	0.00	0.00	0.00
16,600.00	90.20	359.69	8,869.13	7,411.33	-5.96	7,411.25	0.00	0.00	0.00
16,700.00	90.20	359.69	8,868.78	7,511.33	-6.51	7,511.25	0.00	0.00	0.00
16,800.00	90.20	359.69	8,868.43	7,611.33	-7.05	7,611.25	0.00	0.00	0.00
16,900.00	90.20	359.69	8,868.08	7,711.32	-7.60	7,711.25	0.00	0.00	0.00
17,000.00	90.20	359.69	8,867.73	7,811.32	-8.15	7,811.25	0.00	0.00	0.00
17,100.00	90.20	359.69	8,867.38	7,911.32	-8.70	7,911.25	0.00	0.00	0.00


MS Directional
 Planning Report


Database:	TRG_EDMConroe	Local Co-ordinate Reference:	Well Double Stamp Fed Com 115H
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 115H	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)
17,200.00	90.20	359.69	8,867.03	8,011.32	-9.24	8,011.25	0.00	0.00	0.00
17,300.00	90.20	359.69	8,866.69	8,111.32	-9.79	8,111.25	0.00	0.00	0.00
17,400.00	90.20	359.69	8,866.34	8,211.31	-10.34	8,211.25	0.00	0.00	0.00
17,500.00	90.20	359.69	8,865.99	8,311.31	-10.89	8,311.25	0.00	0.00	0.00
17,600.00	90.20	359.69	8,865.64	8,411.31	-11.43	8,411.25	0.00	0.00	0.00
17,700.00	90.20	359.69	8,865.29	8,511.31	-11.98	8,511.25	0.00	0.00	0.00
17,800.00	90.20	359.69	8,864.94	8,611.31	-12.53	8,611.25	0.00	0.00	0.00
17,900.00	90.20	359.69	8,864.59	8,711.30	-13.08	8,711.25	0.00	0.00	0.00
18,000.00	90.20	359.69	8,864.24	8,811.30	-13.62	8,811.25	0.00	0.00	0.00
18,100.00	90.20	359.69	8,863.89	8,911.30	-14.17	8,911.24	0.00	0.00	0.00
18,200.00	90.20	359.69	8,863.54	9,011.30	-14.72	9,011.24	0.00	0.00	0.00
18,300.00	90.20	359.69	8,863.20	9,111.29	-15.26	9,111.24	0.00	0.00	0.00
18,400.00	90.20	359.69	8,862.85	9,211.29	-15.81	9,211.24	0.00	0.00	0.00
18,500.00	90.20	359.69	8,862.50	9,311.29	-16.36	9,311.24	0.00	0.00	0.00
18,600.00	90.20	359.69	8,862.15	9,411.29	-16.91	9,411.24	0.00	0.00	0.00
18,700.00	90.20	359.69	8,861.80	9,511.29	-17.45	9,511.24	0.00	0.00	0.00
18,800.00	90.20	359.69	8,861.45	9,611.28	-18.00	9,611.24	0.00	0.00	0.00
18,900.00	90.20	359.69	8,861.10	9,711.28	-18.55	9,711.24	0.00	0.00	0.00
19,000.00	90.20	359.69	8,860.75	9,811.28	-19.10	9,811.24	0.00	0.00	0.00
19,100.00	90.20	359.69	8,860.40	9,911.28	-19.64	9,911.24	0.00	0.00	0.00
19,175.37	90.20	359.69	8,860.14	9,986.64	-20.06	9,986.61	0.00	0.00	0.00
PBHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP v1_Double Stamp - hit/miss target - Shape - Point	0.00	0.00	8,321.83	-523.73	37.50	570,175.32	724,090.38	32.566068	-103.740116
- plan misses target center by 10.00usft at 8347.73usft MD (8321.83 TVD, -513.73 N, 37.42 E)									
FTP v1_Double Stamp - plan hits target center - Point	0.00	0.00	8,532.16	-473.73	37.20	570,225.32	724,090.08	32.566205	-103.740116
PBHL v1_Double Stamp - plan hits target center - Rectangle (sides W100.00 H10,458.00 D30.00)	-0.20	359.69	8,860.14	9,986.64	-20.06	580,685.69	724,032.83	32.594957	-103.740113
LTP v1_Double Stamp - plan hits target center - Point	0.00	0.00	8,860.47	9,891.65	-19.53	580,590.69	724,033.35	32.594696	-103.740113


MS Directional
 Planning Report


Database:	TRG_EDMConroe	Local Co-ordinate Reference:	Well Double Stamp Fed Com 115H
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 115H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,500.20	1,500.20	Rustler			
1,760.59	1,760.50	Salado			
2,931.15	2,925.50	Yates			
3,573.17	3,564.00	Capitan Reef Complex			
4,650.17	4,635.10	DMG			
7,439.60	7,413.70	Brushy Canyon			
7,765.00	7,739.10	Bone Spring			
7,822.50	7,796.60	Upper Avalon			
8,230.70	8,204.80	Middle Avalon			
8,570.58	8,539.10	Lower Avalon			
8,855.20	8,765.50	1st Bone Spring Sand			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,500.00	1,500.00	0.00	0.00	KOP, 1.00°/100' Build
2,100.18	2,099.08	-31.32	2.28	Hold 6.00° Inc, 175.83° Azm
6,425.72	6,400.92	-482.41	35.14	Begin 1.00°/100' Drop
7,025.90	7,000.00	-513.73	37.42	Begin Vertical Hold
8,347.73	8,321.83	-513.73	37.42	Begin 10.00°/100' Build
9,249.73	8,894.78	61.22	34.27	Hold 90.20° Inc, 359.69° Azm
19,175.37	8,860.14	9,986.64	-20.06	PBHL



CIVITAS

Civitas Permian Operating, LLC

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

**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 115H
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 115H	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	19,175.37	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	3,799.31	3,766.07	579.13	552.55	21.788	CC
Belco AIA Federal 2H - Wellbore #1 - Mock Surveys (from	4,000.00	3,964.17	579.79	551.79	20.705	ES
Belco AIA Federal 2H - Wellbore #1 - Mock Surveys (from	4,700.00	4,618.45	597.34	564.65	18.268	SF
Belco AIA Federal 2H - Wellbore #1 - Surveys	4,496.17	4,467.00	587.16	571.37	37.196	CC
Belco AIA Federal 2H - Wellbore #1 - Surveys	4,500.00	4,467.00	587.17	571.37	37.163	ES
Belco AIA Federal 2H - Wellbore #1 - Surveys	5,000.00	4,846.17	643.34	623.91	33.100	SF
Belco AIA Federal 3H - Wellbore #1 - Surveys	1,523.18	1,500.00	2,316.45	2,311.09	432.080	CC, ES
Belco AIA Federal 3H - Wellbore #1 - Surveys	14,000.00	6,955.00	4,392.86	4,339.34	82.079	SF
Belco AIA Federal 4H - Wellbore #1 - Surveys	5,112.18	5,316.53	135.96	101.03	3.893	CC, ES, SF
Queenie 15 1H - Wellbore #1 - Surveys	3,010.00	2,984.40	848.54	830.64	47.402	CC, ES
Queenie 15 1H - Wellbore #1 - Surveys	3,800.00	3,654.00	878.81	856.22	38.915	SF
Double Stamp E2-1 (113H,116H,123H,124H,126H)						
Double Stamp Fed Com 113H - Wellbore #1 - Design #1	1,165.99	1,167.99	1,164.34	1,156.16	142.398	CC
Double Stamp Fed Com 113H - Wellbore #1 - Design #1	1,300.00	1,293.09	1,164.73	1,155.64	128.141	ES
Double Stamp Fed Com 113H - Wellbore #1 - Design #1	19,175.37	19,203.27	1,409.85	1,220.04	7.428	SF
Double Stamp Fed Com 116H - Wellbore #1 - Design #1	1,817.08	1,814.62	1,188.77	1,176.03	93.309	CC, ES
Double Stamp Fed Com 116H - Wellbore #1 - Design #1	19,175.37	19,425.24	2,629.49	2,440.22	13.893	SF
Double Stamp Fed Com 123H - Wellbore #1 - Design #1	1,165.99	1,167.99	1,164.61	1,156.43	142.431	CC
Double Stamp Fed Com 123H - Wellbore #1 - Design #1	1,300.00	1,295.79	1,164.88	1,155.78	128.035	ES
Double Stamp Fed Com 123H - Wellbore #1 - Design #1	19,175.37	20,020.12	1,606.24	1,440.76	9.707	SF
Double Stamp Fed Com 124H - Wellbore #1 - Design #1	1,165.99	1,167.99	1,269.59	1,261.41	155.270	CC
Double Stamp Fed Com 124H - Wellbore #1 - Design #1	1,200.00	1,200.00	1,269.59	1,261.17	150.902	ES
Double Stamp Fed Com 124H - Wellbore #1 - Design #1	19,175.37	20,136.31	2,495.50	2,317.04	13.983	SF
Double Stamp Fed Com 126H - Wellbore #1 - Design #1	465.99	467.99	1,189.60	1,186.44	376.691	CC
Double Stamp Fed Com 126H - Wellbore #1 - Design #1	600.00	587.79	1,190.21	1,186.16	293.474	ES
Double Stamp Fed Com 126H - Wellbore #1 - Design #1	19,175.37	20,341.94	3,435.82	3,252.78	18.771	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, ES
Double Stamp Fed Com 111H - Wellbore #1 - Design #1	900.00	899.36	26.24	19.99	4.200	SF
Double Stamp Fed Com 121H - Wellbore #1 - Design #1	800.00	800.00	35.36	29.81	6.375	CC
Double Stamp Fed Com 121H - Wellbore #1 - Design #1	900.00	899.83	35.59	29.35	5.699	ES
Double Stamp Fed Com 121H - Wellbore #1 - Design #1	8,500.00	8,499.35	217.55	157.68	3.634	SF
Double Stamp Fed Com 125H - Wellbore #1 - Design #1	1,200.00	1,200.00	25.00	16.59	2.971	CC
Double Stamp Fed Com 125H - Wellbore #1 - Design #1	1,300.00	1,299.71	25.56	16.45	2.805	ES
Double Stamp Fed Com 125H - Wellbore #1 - Design #1	1,400.00	1,399.36	27.35	17.55	2.790	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 115H
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 115H	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
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)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	25.50	0.00	0.00	-112.047	-247.60	-611.41	660.13				
100.00	100.00	75.09	100.59	0.26	0.13	-112.047	-247.59	-611.37	659.61	659.21	0.40	1,656.792	
200.00	200.00	175.88	201.38	0.62	0.45	-112.048	-247.55	-611.23	659.46	658.38	1.07	614.466	
300.00	300.00	276.67	302.17	0.98	0.81	-112.051	-247.47	-610.97	659.19	657.40	1.79	367.643	
400.00	400.00	377.46	402.95	1.34	1.17	-112.054	-247.36	-610.59	658.80	656.29	2.51	262.177	
500.00	500.00	478.24	503.74	1.70	1.54	-112.058	-247.22	-610.10	658.29	655.06	3.23	203.642	
600.00	600.00	579.03	604.52	2.06	1.90	-112.064	-247.04	-609.49	657.66	653.71	3.95	166.397	
700.00	700.00	679.81	705.31	2.41	2.26	-112.070	-246.82	-608.76	656.92	652.24	4.67	140.602	
800.00	800.00	780.60	806.08	2.77	2.62	-112.077	-246.57	-607.92	656.05	650.66	5.39	121.672	
900.00	900.00	881.38	906.86	3.13	2.98	-112.086	-246.29	-606.96	655.06	648.95	6.11	107.181	
1,000.00	1,000.00	982.15	1,007.63	3.49	3.34	-112.096	-245.97	-605.88	653.95	647.12	6.83	95.727	
1,100.00	1,100.00	1,082.93	1,108.40	3.85	3.70	-112.106	-245.62	-604.69	652.73	645.18	7.55	86.440	
1,200.00	1,200.00	1,183.70	1,209.16	4.21	4.07	-112.118	-245.23	-603.39	651.38	643.11	8.27	78.755	
1,300.00	1,300.00	1,284.47	1,309.92	4.57	4.43	-112.131	-244.81	-601.96	649.91	640.92	8.99	72.287	
1,400.00	1,400.00	1,385.23	1,410.67	4.92	4.79	-112.145	-244.35	-600.42	648.33	638.62	9.71	66.766	
1,500.00	1,500.00	1,485.99	1,511.41	5.28	5.15	-112.160	-243.86	-598.77	646.62	636.19	10.43	61.996	
1,600.00	1,599.99	1,586.74	1,612.15	5.62	5.51	-112.102	-243.34	-597.00	644.53	633.40	11.13	57.901	
1,700.00	1,699.96	1,687.44	1,712.83	5.95	5.88	-111.897	-242.78	-595.11	641.78	629.96	11.82	54.307	
1,800.00	1,799.86	1,788.07	1,813.44	6.28	6.24	-111.542	-242.19	-593.11	638.40	625.90	12.51	51.044	
1,900.00	1,899.68	1,888.59	1,913.93	6.61	6.60	-111.033	-241.56	-590.99	634.42	621.23	13.20	48.068	
2,000.00	1,999.37	1,988.97	2,014.29	6.94	6.96	-110.366	-240.90	-588.76	629.89	616.00	13.89	45.341	
2,100.00	2,098.90	2,089.00	2,114.29	7.28	7.32	-109.537	-240.21	-586.43	624.87	610.28	14.59	42.835	
2,100.18	2,099.08	2,089.18	2,114.47	7.28	7.32	-109.536	-240.21	-586.43	624.86	610.27	14.59	42.831	
2,200.00	2,198.36	2,187.67	2,212.92	7.62	7.67	-108.615	-239.52	-584.16	619.78	604.50	15.28	40.559	
2,300.00	2,297.81	2,286.33	2,311.56	7.96	8.03	-107.675	-238.84	-582.00	614.98	599.00	15.98	38.491	
2,400.00	2,397.26	2,385.00	2,410.21	8.30	8.38	-106.718	-238.16	-579.96	610.45	593.78	16.68	36.608	
2,500.00	2,496.71	2,483.68	2,508.87	8.65	8.74	-105.745	-237.49	-578.03	606.22	588.84	17.38	34.889	
2,600.00	2,596.16	2,582.36	2,607.53	9.00	9.09	-104.757	-236.82	-576.22	602.27	584.19	18.08	33.315	
2,700.00	2,695.62	2,681.05	2,706.19	9.35	9.45	-103.753	-236.17	-574.53	598.62	579.84	18.78	31.872	
2,800.00	2,795.07	2,779.73	2,804.87	9.70	9.80	-102.736	-235.52	-572.95	595.27	575.79	19.49	30.547	
2,900.00	2,894.52	2,878.42	2,903.55	10.05	10.16	-101.706	-234.87	-571.49	592.23	572.04	20.19	29.327	
3,000.00	2,993.97	2,977.12	3,002.23	10.41	10.51	-100.664	-234.24	-570.15	589.50	568.60	20.90	28.204	
3,100.00	3,093.42	3,075.82	3,100.92	10.76	10.87	-99.612	-233.61	-568.92	587.08	565.47	21.61	27.167	
3,200.00	3,192.87	3,174.51	3,199.61	11.12	11.22	-98.550	-232.98	-567.80	584.98	562.66	22.32	26.209	
3,300.00	3,292.33	3,273.22	3,298.30	11.48	11.57	-97.481	-232.37	-566.81	583.19	560.16	23.03	25.323	
3,400.00	3,391.78	3,371.92	3,397.00	11.83	11.93	-96.404	-231.76	-565.92	581.73	557.99	23.74	24.503	
3,500.00	3,491.23	3,470.62	3,495.70	12.19	12.28	-95.322	-231.15	-565.16	580.59	556.14	24.45	23.744	
3,600.00	3,590.68	3,569.33	3,594.40	12.55	12.63	-94.236	-230.56	-564.51	579.78	554.62	25.16	23.041	
3,700.00	3,690.13	3,668.04	3,693.11	12.91	12.98	-93.148	-229.97	-563.98	579.29	553.42	25.87	22.389	
3,799.31	3,788.90	3,766.07	3,791.13	13.27	13.33	-92.066	-229.39	-563.56	579.13	552.55	26.58	21.788 CC	
3,800.00	3,789.59	3,766.75	3,791.81	13.27	13.33	-92.058	-229.39	-563.56	579.13	552.55	26.59	21.784	
3,900.00	3,889.04	3,865.46	3,890.52	13.63	13.68	-90.969	-228.81	-563.26	579.30	552.00	27.29	21.224	
4,000.00	3,988.49	3,964.17	3,989.23	13.99	14.03	-89.881	-228.24	-563.07	579.79	551.79	28.00	20.705 ES	
4,100.00	4,087.94	4,062.87	4,087.93	14.35	14.38	-88.797	-227.68	-563.01	580.61	551.90	28.71	20.224	
4,200.00	4,187.39	4,161.58	4,186.64	14.72	14.72	-87.717	-227.12	-563.05	581.75	552.33	29.41	19.779	
4,300.00	4,286.84	4,260.29	4,285.35	15.08	15.06	-86.643	-226.57	-563.22	583.21	553.10	30.11	19.367	
4,400.00	4,386.30	4,359.00	4,384.05	15.44	15.40	-85.576	-226.03	-563.50	584.99	554.18	30.81	18.986	
4,500.00	4,485.75	4,457.72	4,482.78	15.80	15.73	-84.518	-225.50	-563.89	587.09	555.58	31.51	18.633	
4,600.00	4,585.20	4,543.83	4,568.71	16.17	16.03	-83.089	-221.04	-564.30	590.08	557.93	32.15	18.352	

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 115H
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 115H	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		
4,700.00	4,684.65	4,618.45	4,641.90	16.53	16.29	-80.773	-206.90	-566.07	597.34	564.65	32.70	18.268 SF			
4,800.00	4,784.10	4,702.41	4,722.54	16.89	16.57	-77.682	-183.70	-568.73	608.58	575.31	33.27	18.294			
4,900.00	4,883.56	4,782.83	4,798.43	17.26	16.86	-74.408	-157.26	-571.48	623.60	589.82	33.77	18.464			
5,000.00	4,983.01	4,850.00	4,861.10	17.62	17.12	-71.506	-133.34	-574.81	643.40	609.31	34.09	18.872			
5,100.00	5,082.46	4,888.52	4,895.81	17.99	17.27	-69.359	-116.98	-578.02	670.94	637.02	33.91	19.784			
5,200.00	5,181.91	4,925.00	4,927.15	18.35	17.41	-67.187	-98.82	-582.23	707.14	673.61	33.53	21.092			
5,300.00	5,281.36	4,950.00	4,947.55	18.72	17.51	-65.417	-84.83	-585.86	751.68	718.87	32.81	22.911			
5,400.00	5,380.82	4,975.00	4,967.07	19.08	17.62	-63.673	-69.84	-590.25	803.74	771.71	32.02	25.097			
5,500.00	5,480.27	5,007.13	4,990.82	19.45	17.76	-61.680	-49.20	-596.65	862.10	830.71	31.39	27.463			
5,600.00	5,579.72	5,036.55	5,011.30	19.81	17.89	-59.805	-28.90	-602.50	925.58	894.84	30.74	30.107			
5,700.00	5,679.17	5,062.07	5,028.10	20.18	18.01	-58.106	-10.32	-607.37	993.38	963.30	30.08	33.028			
5,800.00	5,778.62	5,080.83	5,039.75	20.54	18.10	-56.707	3.96	-610.88	1,065.12	1,035.77	29.35	36.286			
5,900.00	5,878.07	5,100.00	5,050.95	20.91	18.20	-55.321	19.09	-614.45	1,140.37	1,111.65	28.72	39.702			
6,000.00	5,977.53	5,109.16	5,056.04	21.27	18.25	-54.369	26.51	-616.19	1,218.59	1,190.59	28.00	43.523			
6,100.00	6,076.98	5,120.00	5,061.82	21.64	18.31	-53.375	35.44	-618.27	1,299.38	1,271.98	27.40	47.427			
6,200.00	6,176.43	5,120.00	5,061.82	22.01	18.31	-52.820	35.44	-618.27	1,382.53	1,355.83	26.70	51.777			
6,300.00	6,275.88	5,131.17	5,067.41	22.37	18.37	-51.859	44.84	-620.56	1,467.46	1,441.18	26.28	55.841			
6,400.00	6,375.33	5,140.00	5,071.48	22.74	18.42	-51.014	52.42	-622.52	1,554.18	1,528.29	25.89	60.027			
6,425.72	6,400.92	5,140.00	5,071.48	22.83	18.42	-50.881	52.42	-622.52	1,576.69	1,550.92	25.77	61.188			
6,500.00	6,474.83	5,140.00	5,071.48	23.10	18.42	-50.525	52.42	-622.52	1,642.10	1,616.66	25.43	64.561			
6,600.00	6,574.49	5,144.46	5,073.42	23.47	18.44	-49.971	56.30	-623.57	1,730.83	1,705.73	25.10	68.964			
6,700.00	6,674.27	5,149.00	5,075.32	23.83	18.47	-49.507	60.27	-624.66	1,820.18	1,795.37	24.81	73.373			
6,800.00	6,774.15	5,150.00	5,075.73	24.19	18.47	-49.249	61.15	-624.91	1,910.05	1,885.54	24.51	77.924			
6,900.00	6,874.11	5,150.00	5,075.73	24.55	18.47	-49.107	61.15	-624.91	2,000.40	1,976.16	24.24	82.509			
7,000.00	6,974.10	5,161.32	5,080.09	24.90	18.54	-48.674	71.21	-627.73	2,090.88	2,066.73	24.15	86.579			
7,025.90	7,000.00	5,162.37	5,080.47	24.99	18.54	-48.637	72.16	-627.99	2,114.39	2,090.28	24.11	87.712			
7,100.00	7,074.10	5,175.00	5,084.75	25.23	18.61	-48.226	83.58	-631.24	2,182.05	2,157.95	24.10	90.529			
7,200.00	7,174.10	5,175.00	5,084.75	25.56	18.61	-48.226	83.58	-631.24	2,273.59	2,249.66	23.94	94.981			
7,300.00	7,274.10	5,175.00	5,084.75	25.89	18.61	-48.226	83.58	-631.24	2,365.82	2,342.01	23.81	99.363			
7,400.00	7,374.10	5,175.00	5,084.75	26.22	18.61	-48.226	83.58	-631.24	2,458.65	2,434.93	23.72	103.666			
7,500.00	7,474.10	5,180.00	5,086.29	26.55	18.64	-48.064	88.15	-632.55	2,552.00	2,528.30	23.70	107.663			
7,600.00	7,574.10	5,180.00	5,086.29	26.88	18.64	-48.064	88.15	-632.55	2,645.81	2,622.14	23.67	111.786			
7,700.00	7,674.10	5,190.13	5,089.26	27.21	18.70	-47.741	97.47	-635.23	2,739.96	2,716.21	23.75	115.368			
7,800.00	7,774.10	5,200.00	5,092.03	27.55	18.76	-47.431	106.56	-637.88	2,834.47	2,810.63	23.85	118.866			
7,900.00	7,874.10	5,200.00	5,092.03	27.88	18.76	-47.431	106.56	-637.88	2,929.28	2,905.40	23.88	122.689			
8,000.00	7,974.10	5,212.00	5,095.26	28.21	18.84	-47.063	117.65	-641.13	3,024.37	3,000.34	24.02	125.894			
8,100.00	8,074.10	5,212.00	5,095.26	28.55	18.84	-47.063	117.65	-641.13	3,119.70	3,095.62	24.09	129.513			
8,200.00	8,174.10	5,212.00	5,095.26	28.88	18.84	-47.063	117.65	-641.13	3,215.33	3,191.16	24.17	133.029			
8,300.00	8,274.10	5,225.00	5,098.47	29.22	18.92	-46.671	129.72	-644.70	3,311.18	3,286.81	24.36	135.901			
8,347.73	8,321.83	5,225.00	5,098.47	29.38	18.92	-46.671	129.72	-644.70	3,356.99	3,332.57	24.42	137.497			
8,350.00	8,324.10	5,225.00	5,098.47	29.39	18.92	-46.671	129.72	-644.70	3,359.16	3,334.74	24.42	137.573			
8,400.00	8,374.02	5,225.00	5,098.47	29.55	18.92	-46.776	129.72	-644.70	3,406.68	3,382.22	24.46	139.260			
8,450.00	8,423.55	5,225.00	5,098.47	29.72	18.92	-47.076	129.72	-644.70	3,453.08	3,428.59	24.49	140.976			
8,500.00	8,472.31	5,225.00	5,098.47	29.87	18.92	-47.573	129.72	-644.70	3,498.07	3,473.55	24.51	142.698			
8,550.00	8,519.92	5,225.00	5,098.47	30.03	18.92	-48.274	129.72	-644.70	3,541.35	3,516.83	24.52	144.414			
8,600.00	8,566.02	5,225.00	5,098.47	30.18	18.92	-49.187	129.72	-644.70	3,582.67	3,558.15	24.52	146.112			
8,650.00	8,610.27	5,243.00	5,102.31	30.32	19.03	-49.697	146.58	-649.70	3,621.67	3,597.05	24.63	147.065			
8,700.00	8,652.32	5,243.00	5,102.31	30.45	19.03	-51.028	146.58	-649.70	3,658.19	3,633.59	24.60	148.689			
8,750.00	8,691.85	5,243.00	5,102.31	30.58	19.03	-52.598	146.58	-649.70	3,692.06	3,667.49	24.57	150.252			
8,800.00	8,728.57	5,265.40	5,106.56	30.70	19.18	-53.518	167.69	-655.89	3,722.97	3,698.30	24.68	150.876			
8,850.00	8,762.19	5,275.00	5,108.33	30.81	19.25	-55.134	176.76	-658.51	3,750.71	3,726.02	24.69	151.913			

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



Anticollision Report



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Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Double Stamp Fed Com 115H	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		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	
8,900.00	8,792.47	5,293.46	5,111.58	30.91	19.38	-56.572	194.23	-663.50	3,775.12	3,750.37	24.76	152.499		
8,950.00	8,819.16	5,307.00	5,113.82	31.01	19.48	-58.407	207.07	-667.15	3,796.13	3,771.35	24.78	153.166		
9,000.00	8,842.06	5,325.02	5,116.66	31.10	19.61	-60.208	224.21	-671.94	3,813.57	3,788.73	24.84	153.521		
9,050.00	8,861.01	5,338.00	5,118.61	31.18	19.71	-62.420	236.59	-675.30	3,827.31	3,802.45	24.86	153.924		
9,100.00	8,875.85	5,350.00	5,120.32	31.25	19.80	-64.854	248.05	-678.44	3,837.36	3,812.47	24.89	154.194		
9,150.00	8,886.47	5,359.76	5,121.60	31.32	19.88	-67.577	257.36	-681.08	3,843.70	3,818.80	24.90	154.363		
9,200.00	8,892.80	5,370.00	5,122.85	31.38	19.96	-70.419	267.11	-683.93	3,846.30	3,821.38	24.92	154.323		
9,249.73	8,894.78	5,370.00	5,122.85	31.43	19.96	-74.004	267.11	-683.93	3,845.22	3,820.32	24.90	154.429		
9,300.00	8,894.61	5,370.00	5,122.85	31.48	19.96	-77.769	267.11	-683.93	3,842.63	3,817.74	24.89	154.386		
9,400.00	8,894.26	5,401.00	5,125.68	31.60	20.21	-83.303	296.74	-692.60	3,838.83	3,813.76	25.07	153.105		
9,500.00	8,893.91	5,401.00	5,125.68	31.75	20.21	-91.164	296.74	-692.60	3,837.47	3,812.31	25.16	152.526		
9,504.45	8,893.90	5,401.00	5,125.68	31.76	20.21	-91.515	296.74	-692.60	3,837.47	3,812.30	25.17	152.492		
9,600.00	8,893.56	5,425.00	5,126.44	31.92	20.41	-97.145	319.76	-699.31	3,838.61	3,813.20	25.41	151.047		
9,700.00	8,893.21	5,425.00	5,126.44	32.11	20.41	-104.693	319.76	-699.31	3,841.85	3,816.23	25.62	149.944		
9,800.00	8,892.86	5,433.00	5,126.34	32.32	20.48	-111.186	327.43	-701.58	3,847.65	3,821.73	25.92	148.439		
9,900.00	8,892.51	5,450.00	5,125.76	32.56	20.63	-116.514	343.71	-706.45	3,855.79	3,829.49	26.30	146.605		
10,000.00	8,892.17	5,465.00	5,124.94	32.82	20.76	-121.464	358.04	-710.80	3,866.08	3,839.36	26.72	144.696		
10,100.00	8,891.82	5,544.25	5,119.77	33.09	21.52	-122.054	433.95	-732.99	3,877.88	3,850.51	27.37	141.686		
10,200.00	8,891.47	5,654.00	5,112.28	33.39	22.65	-120.848	539.94	-760.43	3,889.46	3,861.29	28.17	138.053		
10,300.00	8,891.12	5,907.00	5,096.03	33.71	25.59	-111.123	787.33	-810.49	3,900.21	3,870.51	29.70	131.301		
10,400.00	8,890.77	6,244.64	5,085.32	34.04	29.89	-95.799	1,122.55	-847.48	3,905.86	3,873.92	31.95	122.267		
10,500.00	8,890.42	6,356.06	5,085.43	34.40	31.39	-95.033	1,233.48	-857.94	3,907.41	3,874.43	32.98	118.467		
10,600.00	8,890.07	6,473.58	5,085.10	34.77	32.99	-93.893	1,350.77	-865.00	3,908.57	3,874.50	34.07	114.732		
10,700.00	8,889.72	6,561.74	5,084.22	35.16	34.21	-94.638	1,438.85	-868.62	3,910.00	3,875.02	34.98	111.787		
10,800.00	8,889.37	6,621.00	5,083.55	35.57	35.04	-97.204	1,498.04	-871.41	3,911.79	3,876.06	35.73	109.489		
10,900.00	8,889.02	6,760.52	5,081.90	35.99	37.03	-94.689	1,637.43	-877.20	3,913.32	3,876.32	37.00	105.752		
11,000.00	8,888.68	6,831.43	5,081.03	36.43	38.05	-96.504	1,708.25	-880.56	3,915.14	3,877.27	37.86	103.400		
11,100.00	8,888.33	6,971.00	5,080.05	36.89	40.11	-94.002	1,847.58	-888.65	3,916.66	3,877.46	39.20	99.911		
11,200.00	8,887.98	7,098.00	5,079.69	37.36	41.99	-92.308	1,974.43	-894.52	3,917.57	3,877.11	40.47	96.808		
11,300.00	8,887.63	7,151.94	5,079.78	37.84	42.81	-95.160	2,028.23	-898.32	3,918.62	3,877.35	41.27	94.956		
11,400.00	8,887.28	7,229.37	5,079.00	38.34	43.98	-96.527	2,105.48	-903.58	3,920.70	3,878.45	42.24	92.816		
11,500.00	8,886.93	7,313.82	5,078.25	38.85	45.28	-97.443	2,189.70	-909.91	3,922.92	3,879.64	43.28	90.638		
11,600.00	8,886.58	7,534.84	5,080.52	39.37	48.72	-90.103	2,409.72	-930.53	3,923.30	3,877.96	45.33	86.542		
11,658.75	8,886.38	7,577.00	5,081.52	39.68	49.38	-91.110	2,451.67	-934.60	3,923.08	3,877.17	45.92	85.436		
11,700.00	8,886.23	7,577.00	5,081.52	39.90	49.38	-93.579	2,451.67	-934.60	3,923.30	3,877.19	46.11	85.080		
11,800.00	8,885.88	7,577.00	5,081.52	40.45	49.38	-99.498	2,451.67	-934.60	3,925.63	3,879.03	46.60	84.244		
11,900.00	8,885.53	7,577.00	5,081.52	41.01	49.38	-105.226	2,451.67	-934.60	3,930.50	3,883.40	47.10	83.457		
12,000.00	8,885.19	7,577.00	5,081.52	41.58	49.38	-110.665	2,451.67	-934.60	3,937.90	3,890.29	47.60	82.722		
12,100.00	8,884.84	7,577.00	5,081.52	42.15	49.38	-115.748	2,451.67	-934.60	3,947.82	3,899.70	48.12	82.042		
12,200.00	8,884.49	7,577.00	5,081.52	42.74	49.38	-120.435	2,451.67	-934.60	3,960.25	3,911.61	48.64	81.421		
12,300.00	8,884.14	7,577.00	5,081.52	43.34	49.38	-124.718	2,451.67	-934.60	3,975.15	3,925.99	49.16	80.861		
12,400.00	8,883.79	7,577.00	5,081.52	43.94	49.38	-128.603	2,451.67	-934.60	3,992.50	3,942.82	49.68	80.362		
12,500.00	8,883.44	7,577.00	5,081.52	44.56	49.38	-132.112	2,451.67	-934.60	4,012.27	3,962.07	50.20	79.927		
12,600.00	8,883.09	7,577.00	5,081.52	45.18	49.38	-135.276	2,451.67	-934.60	4,034.42	3,983.71	50.71	79.555		
12,700.00	8,882.74	7,577.00	5,081.52	45.81	49.38	-138.126	2,451.67	-934.60	4,058.92	4,007.70	51.22	79.247		
12,800.00	8,882.39	7,577.00	5,081.52	46.45	49.38	-140.694	2,451.67	-934.60	4,085.71	4,034.00	51.72	79.002		
12,900.00	8,882.04	7,577.00	5,081.52	47.10	49.38	-143.011	2,451.67	-934.60	4,114.77	4,062.56	52.20	78.820		
13,000.00	8,881.69	7,577.00	5,081.52	47.75	49.38	-145.106	2,451.67	-934.60	4,146.03	4,093.35	52.68	78.700		
13,100.00	8,881.35	7,577.00	5,081.52	48.41	49.38	-147.004	2,451.67	-934.60	4,179.45	4,126.30	53.15	78.640		
13,200.00	8,881.00	7,577.00	5,081.52	49.08	49.38	-148.729	2,451.67	-934.60	4,214.98	4,161.38	53.60	78.639		

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 115H
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 115H	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)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
13,300.00	8,880.65	7,577.00	5,081.52	49.75	49.38	-150.300	2,451.67	-934.60	4,252.56	4,198.53	54.04	78.696			
13,400.00	8,880.30	7,577.00	5,081.52	50.43	49.38	-151.734	2,451.67	-934.60	4,292.15	4,237.69	54.46	78.809			
13,500.00	8,879.95	7,577.00	5,081.52	51.11	49.38	-153.048	2,451.67	-934.60	4,333.68	4,278.81	54.87	78.976			
13,600.00	8,879.60	7,577.00	5,081.52	51.80	49.38	-154.255	2,451.67	-934.60	4,377.11	4,321.84	55.27	79.195			
13,700.00	8,879.25	7,577.00	5,081.52	52.50	49.38	-155.365	2,451.67	-934.60	4,422.36	4,366.71	55.65	79.465			
13,800.00	8,878.90	7,577.00	5,081.52	53.20	49.38	-156.391	2,451.67	-934.60	4,469.40	4,413.38	56.02	79.783			
13,900.00	8,878.55	7,577.00	5,081.52	53.90	49.38	-157.340	2,451.67	-934.60	4,518.16	4,461.79	56.37	80.148			
14,000.00	8,878.20	7,577.00	5,081.52	54.61	49.38	-158.220	2,451.67	-934.60	4,568.59	4,511.88	56.71	80.558			
14,100.00	8,877.86	7,577.00	5,081.52	55.33	49.38	-159.038	2,451.67	-934.60	4,620.64	4,563.60	57.04	81.012			
14,200.00	8,877.51	7,577.00	5,081.52	56.04	49.38	-159.800	2,451.67	-934.60	4,674.24	4,616.90	57.35	81.506			
14,300.00	8,877.16	7,577.00	5,081.52	56.77	49.38	-160.512	2,451.67	-934.60	4,729.36	4,671.71	57.65	82.040			
14,400.00	8,876.81	7,577.00	5,081.52	57.49	49.38	-161.178	2,451.67	-934.60	4,785.92	4,727.99	57.93	82.612			
14,500.00	8,876.46	7,577.00	5,081.52	58.22	49.38	-161.802	2,451.67	-934.60	4,843.89	4,785.69	58.21	83.220			
14,600.00	8,876.11	7,577.00	5,081.52	58.96	49.38	-162.387	2,451.67	-934.60	4,903.22	4,844.75	58.47	83.863			
14,700.00	8,875.76	7,577.00	5,081.52	59.70	49.38	-162.938	2,451.67	-934.60	4,963.85	4,905.13	58.72	84.538			
14,800.00	8,875.41	7,577.00	5,081.52	60.44	49.38	-163.458	2,451.67	-934.60	5,025.74	4,966.78	58.96	85.246			
14,900.00	8,875.06	7,577.00	5,081.52	61.18	49.38	-163.947	2,451.67	-934.60	5,088.84	5,029.66	59.18	85.983			
15,000.00	8,874.71	7,577.00	5,081.52	61.93	49.38	-164.410	2,451.67	-934.60	5,153.11	5,093.71	59.40	86.748			
15,100.00	8,874.36	7,577.00	5,081.52	62.68	49.38	-164.848	2,451.67	-934.60	5,218.51	5,158.89	59.61	87.541			
15,200.00	8,874.02	7,577.00	5,081.52	63.43	49.38	-165.263	2,451.67	-934.60	5,284.98	5,225.17	59.81	88.360			
15,300.00	8,873.67	7,577.00	5,081.52	64.19	49.38	-165.657	2,451.67	-934.60	5,352.51	5,292.50	60.00	89.204			
15,400.00	8,873.32	7,577.00	5,081.52	64.95	49.38	-166.031	2,451.67	-934.60	5,421.03	5,360.84	60.19	90.071			
15,500.00	8,872.97	7,577.00	5,081.52	65.71	49.38	-166.387	2,451.67	-934.60	5,490.52	5,430.16	60.36	90.960			
15,600.00	8,872.62	7,577.00	5,081.52	66.48	49.38	-166.726	2,451.67	-934.60	5,560.94	5,500.41	60.53	91.871			
15,700.00	8,872.27	7,577.00	5,081.52	67.24	49.38	-167.049	2,451.67	-934.60	5,632.26	5,571.57	60.69	92.802			
15,800.00	8,871.92	7,577.00	5,081.52	68.01	49.38	-167.358	2,451.67	-934.60	5,704.43	5,643.59	60.85	93.752			
15,900.00	8,871.57	7,577.00	5,081.52	68.79	49.38	-167.652	2,451.67	-934.60	5,777.44	5,716.45	60.99	94.721			
16,000.00	8,871.22	7,577.00	5,081.52	69.56	49.38	-167.934	2,451.67	-934.60	5,851.24	5,790.11	61.14	95.706			
16,100.00	8,870.87	7,577.00	5,081.52	70.34	49.38	-168.204	2,451.67	-934.60	5,925.82	5,864.54	61.27	96.709			
16,200.00	8,870.53	7,577.00	5,081.52	71.11	49.38	-168.462	2,451.67	-934.60	6,001.13	5,939.72	61.41	97.726			
16,300.00	8,870.18	7,577.00	5,081.52	71.90	49.38	-168.710	2,451.67	-934.60	6,077.16	6,015.62	61.54	98.759			
16,400.00	8,869.83	7,577.00	5,081.52	72.68	49.38	-168.947	2,451.67	-934.60	6,153.87	6,092.21	61.66	99.806			
16,500.00	8,869.48	7,577.00	5,081.52	73.46	49.38	-169.195	2,451.67	-934.60	6,231.24	6,169.46	61.78	100.866			
16,600.00	8,869.13	7,577.00	5,081.52	74.25	49.38	-169.395	2,451.67	-934.60	6,309.24	6,247.35	61.89	101.938			
16,700.00	8,868.78	7,577.00	5,081.52	75.04	49.38	-169.606	2,451.67	-934.60	6,387.87	6,325.86	62.00	103.023			
16,800.00	8,868.43	7,577.00	5,081.52	75.83	49.38	-169.809	2,451.67	-934.60	6,467.08	6,404.96	62.11	104.119			
16,900.00	8,868.08	7,577.00	5,081.52	76.62	49.38	-170.004	2,451.67	-934.60	6,546.86	6,484.64	62.22	105.225			
17,000.00	8,867.73	7,577.00	5,081.52	77.41	49.38	-170.193	2,451.67	-934.60	6,627.18	6,564.86	62.32	106.342			
17,100.00	8,867.38	7,577.00	5,081.52	78.21	49.38	-170.375	2,451.67	-934.60	6,708.04	6,645.62	62.42	107.468			
17,200.00	8,867.03	7,577.00	5,081.52	79.00	49.38	-170.550	2,451.67	-934.60	6,789.41	6,726.89	62.52	108.603			
17,300.00	8,866.69	7,577.00	5,081.52	79.80	49.38	-170.720	2,451.67	-934.60	6,871.27	6,808.66	62.61	109.747			
17,400.00	8,866.34	7,577.00	5,081.52	80.60	49.38	-170.883	2,451.67	-934.60	6,953.60	6,890.90	62.70	110.898			
17,500.00	8,865.99	7,577.00	5,081.52	81.40	49.38	-171.042	2,451.67	-934.60	7,036.39	6,973.60	62.79	112.058			
17,600.00	8,865.64	7,577.00	5,081.52	82.20	49.38	-171.195	2,451.67	-934.60	7,119.63	7,056.74	62.88	113.224			
17,700.00	8,865.29	7,577.00	5,081.52	83.01	49.38	-171.343	2,451.67	-934.60	7,203.29	7,140.32	62.97	114.396			
17,800.00	8,864.94	7,577.00	5,081.52	83.81	49.38	-171.486	2,451.67	-934.60	7,287.36	7,224.30	63.05	115.575			
17,900.00	8,864.59	7,577.00	5,081.52	84.62	49.38	-171.625	2,451.67	-934.60	7,371.83	7,308.69	63.14	116.760			
18,000.00	8,864.24	7,577.00	5,081.52	85.42	49.38	-171.760	2,451.67	-934.60	7,456.68	7,393.46	63.22	117.951			
18,100.00	8,863.89	7,577.00	5,081.52	86.23	49.38	-171.891	2,451.67	-934.60	7,541.90	7,478.61	63.30	119.146			
18,200.00	8,863.54	7,577.00	5,081.52	87.04	49.38	-172.017	2,451.67	-934.60	7,627.49	7,564.11	63.38	120.346			
18,300.00	8,863.20	7,577.00	5,081.52	87.85	49.38	-172.140	2,451.67	-934.60	7,713.42	7,649.96	63.46	121.550			

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 115H
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 115H	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
Reference	Offset	Semi Major Axis		Azimuth		Offset Wellbore Centre		Rule Assigned:		Distance		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	from North (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Factor		
18,400.00	8,862.85	7,577.00	5,081.52	88.66	49.38	-172.260	2,451.67	-934.60	7,799.68	7,736.15	63.54	122.759		
18,500.00	8,862.50	7,577.00	5,081.52	89.47	49.38	-172.376	2,451.67	-934.60	7,886.27	7,822.66	63.61	123.971		
18,600.00	8,862.15	7,577.00	5,081.52	90.29	49.38	-172.488	2,451.67	-934.60	7,973.18	7,909.49	63.69	125.187		
18,700.00	8,861.80	7,577.00	5,081.52	91.10	49.38	-172.598	2,451.67	-934.60	8,060.39	7,996.62	63.77	126.406		
18,800.00	8,861.45	7,577.00	5,081.52	91.92	49.38	-172.704	2,451.67	-934.60	8,147.89	8,084.05	63.84	127.628		
18,900.00	8,861.10	7,577.00	5,081.52	92.74	49.38	-172.808	2,451.67	-934.60	8,235.67	8,171.76	63.92	128.852		
19,000.00	8,860.75	7,577.00	5,081.52	93.55	49.38	-172.909	2,451.67	-934.60	8,323.74	8,259.75	63.99	130.079		
19,100.00	8,860.40	7,577.00	5,081.52	94.37	49.38	-173.007	2,451.67	-934.60	8,412.06	8,348.00	64.06	131.308		
19,175.37	8,860.14	7,577.00	5,081.52	94.99	49.38	-173.080	2,451.67	-934.60	8,478.81	8,414.69	64.12	132.235		

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 115H
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 115H	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		
0.00	0.00	4,467.00	4,492.24	0.00	0.00	-111.790	-225.44	-563.94	4,533.11						
100.00	100.00	4,467.00	4,492.24	0.26	0.00	-111.790	-225.44	-563.94	4,434.03	4,431.75	2.28	1,946.495			
200.00	200.00	4,467.00	4,492.24	0.62	0.00	-111.790	-225.44	-563.94	4,334.99	4,332.71	2.29	1,895.974			
300.00	300.00	4,467.00	4,492.24	0.98	0.00	-111.790	-225.44	-563.94	4,236.00	4,233.70	2.30	1,840.605			
400.00	400.00	4,467.00	4,492.24	1.34	0.00	-111.790	-225.44	-563.94	4,137.06	4,134.74	2.32	1,780.908			
500.00	500.00	4,467.00	4,492.24	1.70	0.00	-111.790	-225.44	-563.94	4,038.17	4,035.82	2.35	1,717.480			
600.00	600.00	4,467.00	4,492.24	2.06	0.00	-111.790	-225.44	-563.94	3,939.34	3,936.95	2.39	1,650.974			
700.00	700.00	4,467.00	4,492.24	2.41	0.00	-111.790	-225.44	-563.94	3,840.56	3,838.14	2.43	1,582.069			
800.00	800.00	4,467.00	4,492.24	2.77	0.00	-111.790	-225.44	-563.94	3,741.86	3,739.38	2.48	1,511.447			
900.00	900.00	4,467.00	4,492.24	3.13	0.00	-111.790	-225.44	-563.94	3,643.22	3,640.69	2.53	1,439.770			
1,000.00	1,000.00	4,467.00	4,492.24	3.49	0.00	-111.790	-225.44	-563.94	3,544.66	3,542.06	2.59	1,367.659			
1,100.00	1,100.00	4,467.00	4,492.24	3.85	0.00	-111.790	-225.44	-563.94	3,446.18	3,443.52	2.66	1,295.681			
1,200.00	1,200.00	4,467.00	4,492.24	4.21	0.00	-111.790	-225.44	-563.94	3,347.79	3,345.05	2.73	1,224.338			
1,300.00	1,300.00	4,467.00	4,492.24	4.57	0.00	-111.790	-225.44	-563.94	3,249.50	3,246.68	2.82	1,154.065			
1,400.00	1,400.00	4,467.00	4,492.24	4.92	0.00	-111.790	-225.44	-563.94	3,151.32	3,148.41	2.90	1,085.228			
1,500.00	1,500.00	4,467.00	4,492.24	5.28	0.00	-111.790	-225.44	-563.94	3,053.25	3,050.25	3.00	1,018.123			
1,600.00	1,599.99	4,467.00	4,492.24	5.62	0.00	-111.712	-225.44	-563.94	2,955.27	2,952.17	3.10	953.286			
1,700.00	1,699.96	4,467.00	4,492.24	5.95	0.00	-111.476	-225.44	-563.94	2,857.34	2,854.14	3.21	891.064			
1,800.00	1,799.86	4,467.00	4,492.24	6.28	0.00	-111.081	-225.44	-563.94	2,759.51	2,756.19	3.32	831.409			
1,900.00	1,899.68	4,467.00	4,492.24	6.61	0.00	-110.527	-225.44	-563.94	2,661.82	2,658.39	3.44	774.323			
2,000.00	1,999.37	4,467.00	4,492.24	6.94	0.00	-109.809	-225.44	-563.94	2,564.32	2,560.76	3.56	719.763			
2,100.00	2,098.90	4,467.00	4,492.24	7.28	0.00	-108.925	-225.44	-563.94	2,467.05	2,463.36	3.70	667.661			
2,100.18	2,099.08	4,467.00	4,492.24	7.28	0.00	-108.924	-225.44	-563.94	2,466.88	2,463.18	3.70	667.569			
2,200.00	2,198.36	4,467.00	4,492.24	7.62	0.00	-107.953	-225.44	-563.94	2,370.05	2,366.21	3.84	617.743			
2,300.00	2,297.81	4,467.00	4,492.24	7.96	0.00	-106.973	-225.44	-563.94	2,273.30	2,269.31	3.99	569.878			
2,400.00	2,397.26	4,467.00	4,492.24	8.30	0.00	-105.985	-225.44	-563.94	2,176.84	2,172.69	4.15	524.134			
2,500.00	2,496.71	4,467.00	4,492.24	8.65	0.00	-104.990	-225.44	-563.94	2,080.73	2,076.40	4.33	480.498			
2,600.00	2,596.16	4,467.00	4,492.24	9.00	0.00	-103.988	-225.44	-563.94	1,984.99	1,980.47	4.52	438.949			
2,700.00	2,695.62	4,467.00	4,492.24	9.35	0.00	-102.981	-225.44	-563.94	1,889.70	1,884.97	4.73	399.460			
2,800.00	2,795.07	4,467.00	4,492.24	9.70	0.00	-101.967	-225.44	-563.94	1,794.92	1,789.96	4.96	362.006			
2,900.00	2,894.52	4,467.00	4,492.24	10.05	0.00	-100.949	-225.44	-563.94	1,700.73	1,695.52	5.21	326.559			
3,000.00	2,993.97	4,467.00	4,492.24	10.41	0.00	-99.926	-225.44	-563.94	1,607.25	1,601.77	5.48	293.096			
3,100.00	3,093.42	4,467.00	4,492.24	10.76	0.00	-98.900	-225.44	-563.94	1,514.60	1,508.81	5.79	261.602			
3,200.00	3,192.87	4,467.00	4,492.24	11.12	0.00	-97.871	-225.44	-563.94	1,422.95	1,416.82	6.13	232.065			
3,300.00	3,292.33	4,467.00	4,492.24	11.48	0.00	-96.839	-225.44	-563.94	1,332.50	1,325.98	6.52	204.487			
3,400.00	3,391.78	4,467.00	4,492.24	11.83	0.00	-95.805	-225.44	-563.94	1,243.51	1,236.56	6.95	178.879			
3,500.00	3,491.23	4,467.00	4,492.24	12.19	0.00	-94.771	-225.44	-563.94	1,156.33	1,148.88	7.45	155.261			
3,600.00	3,590.68	4,467.00	4,492.24	12.55	0.00	-93.736	-225.44	-563.94	1,071.38	1,063.37	8.02	133.668			
3,700.00	3,690.13	4,467.00	4,492.24	12.91	0.00	-92.701	-225.44	-563.94	989.26	980.59	8.67	114.141			
3,800.00	3,789.59	4,467.00	4,492.24	13.27	0.00	-91.667	-225.44	-563.94	910.71	901.30	9.42	96.730			
3,900.00	3,889.04	4,467.00	4,492.24	13.63	0.00	-90.635	-225.44	-563.94	836.76	826.49	10.27	81.488			
4,000.00	3,988.49	4,467.00	4,492.24	13.99	0.00	-89.605	-225.44	-563.94	768.72	757.49	11.23	68.466			
4,100.00	4,087.94	4,467.00	4,492.24	14.35	0.00	-88.579	-225.44	-563.94	708.31	696.03	12.28	57.701			
4,200.00	4,187.39	4,467.00	4,492.24	14.72	0.00	-87.555	-225.44	-563.94	657.62	644.26	13.36	49.215			
4,300.00	4,286.84	4,467.00	4,492.24	15.08	0.00	-86.536	-225.44	-563.94	619.06	604.66	14.40	42.999			
4,400.00	4,386.30	4,467.00	4,492.24	15.44	0.00	-85.522	-225.44	-563.94	594.98	579.73	15.25	39.010			
4,496.17	4,481.94	4,467.00	4,492.24	15.79	0.00	-84.552	-225.44	-563.94	587.16	571.37	15.79	37.196 CC			
4,500.00	4,485.75	4,467.00	4,492.24	15.80	0.00	-84.513	-225.44	-563.94	587.17	571.37	15.80	37.163 ES			
4,600.00	4,585.20	4,540.00	4,565.10	16.17	0.35	-83.132	-221.49	-564.25	590.09	573.63	16.46	35.856			
4,700.00	4,684.65	4,618.29	4,641.94	16.53	0.79	-80.776	-206.94	-566.07	597.33	580.14	17.19	34.748			
4,800.00	4,784.10	4,702.25	4,722.57	16.89	1.13	-77.686	-183.75	-568.73	608.56	590.59	17.97	33.874			

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 115H
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 115H	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
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)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,900.00	4,883.56	4,782.67	4,798.47	17.26	1.55	-74.413	-157.31	-571.47	623.57	604.82	18.75	33.249	
5,000.00	4,983.01	4,846.17	4,857.76	17.62	1.96	-71.627	-134.82	-574.56	643.34	623.91	19.44	33.100 SF	
5,100.00	5,082.46	4,897.00	4,903.44	17.99	2.34	-69.057	-113.01	-578.90	671.00	651.00	20.00	33.543	
5,200.00	5,181.91	4,929.00	4,930.66	18.35	2.62	-67.031	-96.65	-582.76	707.13	686.76	20.37	34.716	
5,300.00	5,281.36	4,960.00	4,955.65	18.72	2.92	-65.023	-78.95	-587.53	751.71	731.09	20.62	36.452	
5,400.00	5,380.82	4,978.91	4,970.23	19.08	3.12	-63.519	-67.41	-590.99	803.62	782.93	20.69	38.846	
5,500.00	5,480.27	5,007.06	4,990.96	19.45	3.43	-61.683	-49.24	-596.64	862.00	841.23	20.77	41.502	
5,600.00	5,579.72	5,036.49	5,011.45	19.81	3.77	-59.807	-28.94	-602.49	925.47	904.63	20.83	44.422	
5,700.00	5,679.17	5,056.00	5,024.38	20.18	4.00	-58.353	-14.82	-606.23	993.30	972.52	20.79	47.783	
5,800.00	5,778.62	5,087.00	5,043.62	20.54	4.40	-56.455	8.77	-612.02	1,065.05	1,044.19	20.85	51.069	
5,900.00	5,878.07	5,087.00	5,043.62	20.91	4.40	-55.845	8.77	-612.02	1,140.34	1,119.71	20.63	55.263	
6,000.00	5,977.53	5,119.00	5,061.49	21.27	4.83	-53.978	34.61	-618.08	1,218.59	1,197.86	20.74	58.768	
6,100.00	6,076.98	5,119.00	5,061.49	21.64	4.83	-53.413	34.61	-618.08	1,299.24	1,278.68	20.56	63.196	
6,200.00	6,176.43	5,119.00	5,061.49	22.01	4.83	-52.858	34.61	-618.08	1,382.41	1,362.00	20.41	67.720	
6,300.00	6,275.88	5,119.00	5,061.49	22.37	4.83	-52.312	34.61	-618.08	1,467.69	1,447.39	20.30	72.299	
6,400.00	6,375.33	5,149.00	5,075.51	22.74	5.26	-50.694	60.28	-624.66	1,554.42	1,533.96	20.46	75.966	
6,425.72	6,400.92	5,149.00	5,075.51	22.83	5.26	-50.563	60.28	-624.66	1,576.88	1,556.44	20.44	77.138	
6,500.00	6,474.83	5,149.00	5,075.51	23.10	5.26	-50.211	60.28	-624.66	1,642.13	1,621.74	20.39	80.517	
6,600.00	6,574.49	5,149.00	5,075.51	23.47	5.26	-49.815	60.28	-624.66	1,730.72	1,710.37	20.35	85.043	
6,700.00	6,674.27	5,149.00	5,075.51	23.83	5.26	-49.507	60.28	-624.66	1,820.02	1,799.69	20.33	89.526	
6,800.00	6,774.15	5,149.00	5,075.51	24.19	5.26	-49.282	60.28	-624.66	1,909.90	1,889.57	20.33	93.951	
6,900.00	6,874.11	5,149.00	5,075.51	24.55	5.26	-49.139	60.28	-624.66	2,000.27	1,979.92	20.35	98.306	
7,000.00	6,974.10	5,149.00	5,075.51	24.90	5.26	-49.078	60.28	-624.66	2,091.03	2,070.64	20.38	102.582	
7,025.90	7,000.00	5,149.00	5,075.51	24.99	5.26	-49.076	60.28	-624.66	2,114.59	2,094.20	20.39	103.682	
7,100.00	7,074.10	5,165.28	5,081.70	25.23	5.52	-48.541	74.77	-628.73	2,181.69	2,161.15	20.54	106.232	
7,200.00	7,174.10	5,180.00	5,086.48	25.56	5.74	-48.064	88.16	-632.55	2,273.60	2,252.91	20.69	109.890	
7,300.00	7,274.10	5,180.00	5,086.48	25.89	5.74	-48.064	88.16	-632.55	2,365.75	2,344.99	20.77	113.917	
7,400.00	7,374.10	5,180.00	5,086.48	26.22	5.74	-48.064	88.16	-632.55	2,458.52	2,437.66	20.86	117.849	
7,500.00	7,474.10	5,180.00	5,086.48	26.55	5.74	-48.064	88.16	-632.55	2,551.83	2,530.86	20.97	121.685	
7,600.00	7,574.10	5,180.00	5,086.48	26.88	5.74	-48.064	88.16	-632.55	2,645.63	2,624.54	21.09	125.420	
7,700.00	7,674.10	5,180.00	5,086.48	27.21	5.74	-48.064	88.16	-632.55	2,739.87	2,718.64	21.23	129.056	
7,800.00	7,774.10	5,196.55	5,091.26	27.55	6.01	-47.539	103.38	-636.95	2,834.29	2,812.82	21.46	132.050	
7,900.00	7,874.10	5,212.00	5,095.44	27.88	6.26	-47.062	117.65	-641.13	2,929.16	2,907.46	21.70	135.007	
8,000.00	7,974.10	5,212.00	5,095.44	28.21	6.26	-47.062	117.65	-641.13	3,024.19	3,002.33	21.86	138.345	
8,100.00	8,074.10	5,212.00	5,095.44	28.55	6.26	-47.062	117.65	-641.13	3,119.52	3,097.49	22.03	141.584	
8,200.00	8,174.10	5,212.00	5,095.44	28.88	6.26	-47.062	117.65	-641.13	3,215.15	3,192.93	22.22	144.726	
8,300.00	8,274.10	5,212.00	5,095.44	29.22	6.26	-47.062	117.65	-641.13	3,311.03	3,288.62	22.41	147.773	
8,347.73	8,321.83	5,212.00	5,095.44	29.38	6.26	-47.062	117.65	-641.13	3,356.88	3,334.38	22.50	149.194	
8,350.00	8,324.10	5,212.00	5,095.44	29.39	6.26	-47.063	117.65	-641.13	3,359.06	3,336.55	22.50	149.261	
8,400.00	8,374.02	5,212.00	5,095.44	29.55	6.26	-47.170	117.65	-641.13	3,406.63	3,384.03	22.60	150.740	
8,450.00	8,423.55	5,212.00	5,095.44	29.72	6.26	-47.475	117.65	-641.13	3,453.10	3,430.41	22.69	152.199	
8,500.00	8,472.31	5,226.94	5,099.11	29.87	6.50	-47.513	131.54	-645.24	3,497.88	3,475.04	22.84	153.150	
8,550.00	8,519.92	5,243.00	5,102.50	30.03	6.77	-47.703	146.59	-649.70	3,541.36	3,518.37	22.99	154.069	
8,600.00	8,566.02	5,243.00	5,102.50	30.18	6.77	-48.592	146.59	-649.70	3,582.53	3,559.48	23.06	155.390	
8,650.00	8,610.27	5,243.00	5,102.50	30.32	6.77	-49.697	146.59	-649.70	3,621.49	3,598.37	23.12	156.650	
8,700.00	8,652.32	5,243.00	5,102.50	30.45	6.77	-51.028	146.59	-649.70	3,658.01	3,634.83	23.18	157.841	
8,750.00	8,691.85	5,243.00	5,102.50	30.58	6.77	-52.598	146.59	-649.70	3,691.88	3,668.66	23.23	158.954	
8,800.00	8,728.57	5,265.38	5,106.74	30.70	7.14	-53.519	167.67	-655.89	3,722.79	3,699.42	23.36	159.341	
8,850.00	8,762.19	5,275.00	5,108.51	30.81	7.30	-55.134	176.76	-658.51	3,750.53	3,727.08	23.44	159.977	
8,900.00	8,792.47	5,293.45	5,111.77	30.91	7.61	-56.572	194.22	-663.50	3,774.94	3,751.38	23.56	160.248	

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 115H
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 115H	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)	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		
8,950.00	8,819.16	5,307.00	5,114.01	31.01	7.84	-58.407	207.07	-667.15	3,795.95	3,772.30	23.64	160.553			
9,000.00	8,842.06	5,325.01	5,116.85	31.10	8.14	-60.209	224.20	-671.94	3,813.38	3,789.64	23.75	160.580			
9,050.00	8,861.01	5,338.00	5,118.80	31.18	8.36	-62.420	236.60	-675.30	3,827.13	3,803.30	23.83	160.629			
9,100.00	8,875.85	5,338.00	5,118.80	31.25	8.36	-65.518	236.60	-675.30	3,837.28	3,813.43	23.85	160.908			
9,150.00	8,886.47	5,370.00	5,123.04	31.32	8.91	-66.996	267.11	-683.93	3,843.59	3,819.57	24.01	160.065			
9,200.00	8,892.80	5,370.00	5,123.04	31.38	8.91	-70.419	267.11	-683.93	3,846.12	3,822.08	24.04	160.009			
9,249.73	8,894.78	5,370.00	5,123.04	31.43	8.91	-74.003	267.11	-683.93	3,845.03	3,820.97	24.07	159.767			
9,300.00	8,894.61	5,370.00	5,123.04	31.48	8.91	-77.769	267.11	-683.93	3,842.45	3,818.34	24.10	159.407			
9,400.00	8,894.26	5,401.00	5,125.87	31.60	9.44	-83.303	296.74	-692.60	3,838.65	3,814.31	24.34	157.715			
9,500.00	8,893.91	5,401.00	5,125.87	31.75	9.44	-91.164	296.74	-692.60	3,837.28	3,812.79	24.49	156.711			
9,504.45	8,893.90	5,401.00	5,125.87	31.76	9.44	-91.515	296.74	-692.60	3,837.28	3,812.79	24.49	156.661			
9,600.00	8,893.56	5,401.00	5,125.87	31.92	9.44	-98.994	296.74	-692.60	3,838.52	3,813.84	24.68	155.544			
9,700.00	8,893.21	5,433.00	5,126.53	32.11	9.99	-104.087	327.44	-701.58	3,841.83	3,816.80	25.02	153.524			
9,800.00	8,892.86	5,433.00	5,126.53	32.32	9.99	-111.186	327.44	-701.58	3,847.47	3,822.18	25.29	152.136			
9,900.00	8,892.51	5,433.00	5,126.53	32.56	9.99	-117.674	327.44	-701.58	3,855.69	3,830.10	25.59	150.665			
10,000.00	8,892.17	5,465.00	5,125.13	32.82	10.55	-121.464	358.05	-710.80	3,865.90	3,839.87	26.03	148.528			
10,100.00	8,891.82	5,544.26	5,119.96	33.09	11.93	-122.053	433.96	-732.99	3,877.69	3,851.03	26.67	145.411			
10,200.00	8,891.47	5,654.00	5,112.47	33.39	13.84	-120.848	539.94	-760.44	3,889.28	3,861.79	27.49	141.502			
10,300.00	8,891.12	5,907.00	5,096.22	33.71	18.18	-111.123	787.34	-810.49	3,900.03	3,870.93	29.10	134.021			
10,400.00	8,890.77	6,244.63	5,085.51	34.04	23.80	-95.799	1,122.55	-847.48	3,905.68	3,874.29	31.39	124.407			
10,500.00	8,890.42	6,356.06	5,085.62	34.40	25.65	-95.033	1,233.48	-857.94	3,907.23	3,874.78	32.45	120.397			
10,600.00	8,890.07	6,473.58	5,085.29	34.77	27.58	-93.893	1,350.77	-865.00	3,908.39	3,874.83	33.56	116.463			
10,700.00	8,889.72	6,561.74	5,084.41	35.16	29.02	-94.638	1,438.86	-868.62	3,909.81	3,875.32	34.49	113.348			
10,800.00	8,889.37	6,621.00	5,083.74	35.57	29.99	-97.204	1,498.04	-871.41	3,911.61	3,876.34	35.27	110.912			
10,900.00	8,889.02	6,760.52	5,082.08	35.99	32.27	-94.689	1,637.43	-877.20	3,913.14	3,876.58	36.56	107.023			
11,000.00	8,888.68	6,831.43	5,081.22	36.43	33.44	-96.504	1,708.25	-880.56	3,914.95	3,877.51	37.44	104.558			
11,100.00	8,888.33	6,971.00	5,080.24	36.89	35.75	-94.002	1,847.58	-888.65	3,916.48	3,877.69	38.79	100.959			
11,200.00	8,887.98	7,098.00	5,079.88	37.36	37.84	-92.308	1,974.44	-894.52	3,917.39	3,877.32	40.07	97.762			
11,300.00	8,887.63	7,151.93	5,079.97	37.84	38.74	-95.160	2,028.24	-898.32	3,918.44	3,877.55	40.89	95.828			
11,400.00	8,887.28	7,229.37	5,079.19	38.34	40.03	-96.527	2,105.48	-903.58	3,920.51	3,878.64	41.88	93.617			
11,500.00	8,886.93	7,319.00	5,078.38	38.85	41.52	-97.128	2,194.86	-910.35	3,922.74	3,879.77	42.97	91.300			
11,600.00	8,886.58	7,534.83	5,080.71	39.37	45.15	-90.103	2,409.72	-930.53	3,923.11	3,878.14	44.97	87.234			
11,658.75	8,886.38	7,577.00	5,081.71	39.68	45.86	-91.110	2,451.67	-934.60	3,922.90	3,877.34	45.56	86.096			
11,700.00	8,886.23	7,577.00	5,081.71	39.90	45.86	-93.579	2,451.67	-934.60	3,923.12	3,877.35	45.77	85.715			
11,800.00	8,885.88	7,577.00	5,081.71	40.45	45.86	-99.498	2,451.67	-934.60	3,925.44	3,879.17	46.27	84.831			
11,900.00	8,885.53	7,577.00	5,081.71	41.01	45.86	-105.226	2,451.67	-934.60	3,930.31	3,883.53	46.78	84.011			
12,000.00	8,885.19	7,577.00	5,081.71	41.58	45.86	-110.665	2,451.67	-934.60	3,937.72	3,890.42	47.30	83.258			
12,100.00	8,884.84	7,577.00	5,081.71	42.15	45.86	-115.747	2,451.67	-934.60	3,947.64	3,899.83	47.81	82.575			
12,200.00	8,884.49	7,577.00	5,081.71	42.74	45.86	-120.435	2,451.67	-934.60	3,960.06	3,911.75	48.31	81.964			
12,300.00	8,884.14	7,577.00	5,081.71	43.34	45.86	-124.717	2,451.67	-934.60	3,974.97	3,926.15	48.82	81.426			
12,400.00	8,883.79	7,577.00	5,081.71	43.94	45.86	-128.603	2,451.67	-934.60	3,992.32	3,943.01	49.31	80.962			
12,500.00	8,883.44	7,577.00	5,081.71	44.56	45.86	-132.112	2,451.67	-934.60	4,012.09	3,962.29	49.79	80.572			
12,600.00	8,883.09	7,577.00	5,081.71	45.18	45.86	-135.276	2,451.67	-934.60	4,034.24	3,983.98	50.27	80.256			
12,700.00	8,882.74	7,577.00	5,081.71	45.81	45.86	-138.126	2,451.67	-934.60	4,058.74	4,008.01	50.73	80.013			
12,800.00	8,882.39	7,577.00	5,081.71	46.45	45.86	-140.694	2,451.67	-934.60	4,085.54	4,034.37	51.17	79.842			
12,900.00	8,882.04	7,577.00	5,081.71	47.10	45.86	-143.011	2,451.67	-934.60	4,114.59	4,062.99	51.60	79.742			
13,000.00	8,881.69	7,577.00	5,081.71	47.75	45.86	-145.106	2,451.67	-934.60	4,145.85	4,093.84	52.01	79.712			
13,100.00	8,881.35	7,577.00	5,081.71	48.41	45.86	-147.004	2,451.67	-934.60	4,179.28	4,126.87	52.41	79.749			
13,200.00	8,881.00	7,577.00	5,081.71	49.08	45.86	-148.729	2,451.67	-934.60	4,214.81	4,162.03	52.78	79.852			
13,300.00	8,880.65	7,577.00	5,081.71	49.75	45.86	-150.300	2,451.67	-934.60	4,252.39	4,199.25	53.14	80.020			
13,400.00	8,880.30	7,577.00	5,081.71	50.43	45.86	-151.734	2,451.67	-934.60	4,291.98	4,238.50	53.48	80.250			

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 115H
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 115H	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)			
13,500.00	8,879.95	7,577.00	5,081.71	51.11	45.86	-153.048	2,451.67	-934.60	4,333.52	4,279.71	53.81	80.540	
13,600.00	8,879.60	7,577.00	5,081.71	51.80	45.86	-154.255	2,451.67	-934.60	4,376.94	4,322.83	54.11	80.888	
13,700.00	8,879.25	7,577.00	5,081.71	52.50	45.86	-155.365	2,451.67	-934.60	4,422.20	4,367.80	54.40	81.292	
13,800.00	8,878.90	7,577.00	5,081.71	53.20	45.86	-156.391	2,451.67	-934.60	4,469.24	4,414.57	54.67	81.750	
13,900.00	8,878.55	7,577.00	5,081.71	53.90	45.86	-157.340	2,451.67	-934.60	4,518.00	4,463.08	54.92	82.261	
14,000.00	8,878.20	7,577.00	5,081.71	54.61	45.86	-158.220	2,451.67	-934.60	4,568.44	4,513.28	55.16	82.821	
14,100.00	8,877.86	7,577.00	5,081.71	55.33	45.86	-159.038	2,451.67	-934.60	4,620.48	4,565.10	55.38	83.429	
14,200.00	8,877.51	7,577.00	5,081.71	56.04	45.86	-159.800	2,451.67	-934.60	4,674.09	4,618.50	55.59	84.083	
14,300.00	8,877.16	7,577.00	5,081.71	56.77	45.86	-160.512	2,451.67	-934.60	4,729.20	4,673.42	55.78	84.782	
14,400.00	8,876.81	7,577.00	5,081.71	57.49	45.86	-161.178	2,451.67	-934.60	4,785.77	4,729.81	55.96	85.523	
14,500.00	8,876.46	7,577.00	5,081.71	58.22	45.86	-161.802	2,451.67	-934.60	4,843.74	4,787.62	56.12	86.304	
14,600.00	8,876.11	7,577.00	5,081.71	58.96	45.86	-162.387	2,451.67	-934.60	4,903.07	4,846.79	56.28	87.124	
14,700.00	8,875.76	7,577.00	5,081.71	59.70	45.86	-162.938	2,451.67	-934.60	4,963.70	4,907.29	56.42	87.981	
14,800.00	8,875.41	7,577.00	5,081.71	60.44	45.86	-163.457	2,451.67	-934.60	5,025.60	4,969.05	56.55	88.874	
14,900.00	8,875.06	7,577.00	5,081.71	61.18	45.86	-163.947	2,451.67	-934.60	5,088.70	5,032.03	56.67	89.801	
15,000.00	8,874.71	7,577.00	5,081.71	61.93	45.86	-164.410	2,451.67	-934.60	5,152.97	5,096.20	56.78	90.760	
15,100.00	8,874.36	7,577.00	5,081.71	62.68	45.86	-164.848	2,451.67	-934.60	5,218.37	5,161.49	56.88	91.750	
15,200.00	8,874.02	7,577.00	5,081.71	63.43	45.86	-165.263	2,451.67	-934.60	5,284.85	5,227.88	56.97	92.769	
15,300.00	8,873.67	7,577.00	5,081.71	64.19	45.86	-165.657	2,451.67	-934.60	5,352.37	5,295.32	57.05	93.817	
15,400.00	8,873.32	7,577.00	5,081.71	64.95	45.86	-166.031	2,451.67	-934.60	5,420.90	5,363.77	57.13	94.892	
15,500.00	8,872.97	7,577.00	5,081.71	65.71	45.86	-166.387	2,451.67	-934.60	5,490.39	5,433.19	57.20	95.993	
15,600.00	8,872.62	7,577.00	5,081.71	66.48	45.86	-166.726	2,451.67	-934.60	5,560.81	5,503.55	57.26	97.118	
15,700.00	8,872.27	7,577.00	5,081.71	67.24	45.86	-167.049	2,451.67	-934.60	5,632.13	5,574.81	57.32	98.266	
15,800.00	8,871.92	7,577.00	5,081.71	68.01	45.86	-167.358	2,451.67	-934.60	5,704.31	5,646.94	57.37	99.436	
15,900.00	8,871.57	7,577.00	5,081.71	68.79	45.86	-167.652	2,451.67	-934.60	5,777.31	5,719.90	57.41	100.628	
16,000.00	8,871.22	7,577.00	5,081.71	69.56	45.86	-167.934	2,451.67	-934.60	5,851.12	5,793.67	57.45	101.840	
16,100.00	8,870.87	7,577.00	5,081.71	70.34	45.86	-168.204	2,451.67	-934.60	5,925.70	5,868.20	57.49	103.071	
16,200.00	8,870.53	7,577.00	5,081.71	71.11	45.86	-168.462	2,451.67	-934.60	6,001.01	5,943.48	57.53	104.320	
16,300.00	8,870.18	7,577.00	5,081.71	71.90	45.86	-168.710	2,451.67	-934.60	6,077.04	6,019.48	57.56	105.586	
16,400.00	8,869.83	7,577.00	5,081.71	72.68	45.86	-168.947	2,451.67	-934.60	6,153.75	6,096.17	57.58	106.869	
16,500.00	8,869.48	7,577.00	5,081.71	73.46	45.86	-169.175	2,451.67	-934.60	6,231.12	6,173.51	57.61	108.168	
16,600.00	8,869.13	7,577.00	5,081.71	74.25	45.86	-169.395	2,451.67	-934.60	6,309.13	6,251.50	57.63	109.481	
16,700.00	8,868.78	7,577.00	5,081.71	75.04	45.86	-169.606	2,451.67	-934.60	6,387.75	6,330.10	57.65	110.809	
16,800.00	8,868.43	7,577.00	5,081.71	75.83	45.86	-169.809	2,451.67	-934.60	6,466.96	6,409.30	57.66	112.149	
16,900.00	8,868.08	7,577.00	5,081.71	76.62	45.86	-170.004	2,451.67	-934.60	6,546.74	6,489.07	57.68	113.502	
17,000.00	8,867.73	7,577.00	5,081.71	77.41	45.86	-170.193	2,451.67	-934.60	6,627.07	6,569.38	57.69	114.868	
17,100.00	8,867.38	7,577.00	5,081.71	78.21	45.86	-170.375	2,451.67	-934.60	6,707.93	6,650.23	57.71	116.244	
17,200.00	8,867.03	7,577.00	5,081.71	79.00	45.86	-170.550	2,451.67	-934.60	6,789.30	6,731.58	57.72	117.631	
17,300.00	8,866.69	7,577.00	5,081.71	79.80	45.86	-170.720	2,451.67	-934.60	6,871.16	6,813.43	57.73	119.028	
17,400.00	8,866.34	7,577.00	5,081.71	80.60	45.86	-170.883	2,451.67	-934.60	6,953.50	6,895.76	57.74	120.434	
17,500.00	8,865.99	7,577.00	5,081.71	81.40	45.86	-171.042	2,451.67	-934.60	7,036.29	6,978.54	57.75	121.850	
17,600.00	8,865.64	7,577.00	5,081.71	82.20	45.86	-171.195	2,451.67	-934.60	7,119.52	7,061.77	57.75	123.273	
17,700.00	8,865.29	7,577.00	5,081.71	83.01	45.86	-171.343	2,451.67	-934.60	7,203.18	7,145.42	57.76	124.704	
17,800.00	8,864.94	7,577.00	5,081.71	83.81	45.86	-171.486	2,451.67	-934.60	7,287.26	7,229.49	57.77	126.143	
17,900.00	8,864.59	7,577.00	5,081.71	84.62	45.86	-171.625	2,451.67	-934.60	7,371.73	7,313.95	57.78	127.589	
18,000.00	8,864.24	7,577.00	5,081.71	85.42	45.86	-171.760	2,451.67	-934.60	7,456.58	7,398.80	57.78	129.040	
18,100.00	8,863.89	7,577.00	5,081.71	86.23	45.86	-171.890	2,451.67	-934.60	7,541.81	7,484.02	57.79	130.498	
18,200.00	8,863.54	7,577.00	5,081.71	87.04	45.86	-172.017	2,451.67	-934.60	7,627.39	7,569.59	57.80	131.961	
18,300.00	8,863.20	7,577.00	5,081.71	87.85	45.86	-172.140	2,451.67	-934.60	7,713.32	7,655.52	57.81	133.429	
18,400.00	8,862.85	7,577.00	5,081.71	88.66	45.86	-172.260	2,451.67	-934.60	7,799.59	7,741.77	57.82	134.902	

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 115H
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 115H	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
Reference	Vertical	Offset	Vertical	Semi Major Axis	Offset	Azimuth	Offset Wellbore Centre		Rule Assigned:		Minimum	Separation	Warning	
Measured	Depth	Measured	Depth	Reference	Offset	from North	+N/-S	+E/-W	Distance	Distance	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Between	Between	(usft)			
									Centres	Ellipses				
									(usft)	(usft)				
18,500.00	8,862.50	7,577.00	5,081.71	89.47	45.86	-172.376	2,451.67	-934.60	7,886.18	7,828.36	57.83	136.379		
18,600.00	8,862.15	7,577.00	5,081.71	90.29	45.86	-172.488	2,451.67	-934.60	7,973.09	7,915.25	57.83	137.861		
18,700.00	8,861.80	7,577.00	5,081.71	91.10	45.86	-172.598	2,451.67	-934.60	8,060.30	8,002.45	57.84	139.345		
18,800.00	8,861.45	7,577.00	5,081.71	91.92	45.86	-172.704	2,451.67	-934.60	8,147.80	8,089.94	57.85	140.833		
18,900.00	8,861.10	7,577.00	5,081.71	92.74	45.86	-172.808	2,451.67	-934.60	8,235.59	8,177.72	57.87	142.324		
19,000.00	8,860.75	7,577.00	5,081.71	93.55	45.86	-172.909	2,451.67	-934.60	8,323.65	8,265.77	57.88	143.817		
19,100.00	8,860.40	7,577.00	5,081.71	94.37	45.86	-173.007	2,451.67	-934.60	8,411.98	8,354.09	57.89	145.312		
19,175.37	8,860.14	7,577.00	5,081.71	94.99	45.86	-173.080	2,451.67	-934.60	8,478.72	8,420.82	57.90	146.441		

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 115H
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 115H	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	51.929	1,428.40	1,823.58	2,775.21						
100.00	100.00	1,500.00	1,528.41	0.26	0.00	51.929	1,428.40	1,823.58	2,721.42	2,720.19	1.23	2,216.706			
200.00	200.00	1,500.00	1,528.41	0.62	0.00	51.929	1,428.40	1,823.58	2,670.29	2,669.02	1.27	2,104.967			
300.00	300.00	1,500.00	1,528.41	0.98	0.00	51.929	1,428.40	1,823.58	2,621.98	2,620.59	1.39	1,885.757			
400.00	400.00	1,500.00	1,528.41	1.34	0.00	51.929	1,428.40	1,823.58	2,576.64	2,575.06	1.58	1,629.757			
500.00	500.00	1,500.00	1,528.41	1.70	0.00	51.929	1,428.40	1,823.58	2,534.44	2,532.62	1.82	1,389.359			
600.00	600.00	1,500.00	1,528.41	2.06	0.00	51.929	1,428.40	1,823.58	2,495.54	2,493.43	2.11	1,184.974			
700.00	700.00	1,500.00	1,528.41	2.41	0.00	51.929	1,428.40	1,823.58	2,460.09	2,457.67	2.42	1,018.234			
800.00	800.00	1,500.00	1,528.41	2.77	0.00	51.929	1,428.40	1,823.58	2,428.24	2,425.49	2.75	884.007			
900.00	900.00	1,500.00	1,528.41	3.13	0.00	51.929	1,428.40	1,823.58	2,400.14	2,397.05	3.09	776.015			
1,000.00	1,000.00	1,500.00	1,528.41	3.49	0.00	51.929	1,428.40	1,823.58	2,375.92	2,372.47	3.45	688.710			
1,100.00	1,100.00	1,500.00	1,528.41	3.85	0.00	51.929	1,428.40	1,823.58	2,355.70	2,351.88	3.81	617.656			
1,200.00	1,200.00	1,500.00	1,528.41	4.21	0.00	51.929	1,428.40	1,823.58	2,339.58	2,335.40	4.18	559.435			
1,300.00	1,300.00	1,500.00	1,528.41	4.57	0.00	51.929	1,428.40	1,823.58	2,327.65	2,323.10	4.55	511.436			
1,400.00	1,400.00	1,500.00	1,528.41	4.92	0.00	51.929	1,428.40	1,823.58	2,319.97	2,315.05	4.92	471.664			
1,500.00	1,500.00	1,500.00	1,528.41	5.28	0.00	51.929	1,428.40	1,823.58	2,316.59	2,311.31	5.28	438.582			
1,523.18	1,523.18	1,500.00	1,528.41	5.36	0.00	51.928	1,428.40	1,823.58	2,316.45	2,311.09	5.36	432.080	CC, ES		
1,600.00	1,599.99	1,537.84	1,566.24	5.62	0.07	51.911	1,428.71	1,823.99	2,317.66	2,311.97	5.69	407.321			
1,700.00	1,699.96	1,630.86	1,659.25	5.95	0.34	51.862	1,429.50	1,825.30	2,320.76	2,314.47	6.29	369.111			
1,800.00	1,799.86	1,740.28	1,768.66	6.28	0.73	51.758	1,431.06	1,826.32	2,324.81	2,317.81	7.01	331.787			
1,900.00	1,899.68	1,827.32	1,855.69	6.61	1.04	51.621	1,432.33	1,827.08	2,329.83	2,322.18	7.65	304.565			
2,000.00	1,999.37	1,921.47	1,949.82	6.94	1.38	51.458	1,433.62	1,828.50	2,336.27	2,327.95	8.32	280.768			
2,100.00	2,098.90	2,011.50	2,039.82	7.28	1.71	51.269	1,434.78	1,830.23	2,343.99	2,335.01	8.98	261.036			
2,100.18	2,099.08	2,011.66	2,039.98	7.28	1.71	51.269	1,434.78	1,830.23	2,344.00	2,335.02	8.98	261.003			
2,200.00	2,198.36	2,094.80	2,123.09	7.62	2.01	51.061	1,436.22	1,832.14	2,352.79	2,343.18	9.62	244.685			
2,300.00	2,297.81	2,197.21	2,225.45	7.96	2.38	50.855	1,438.12	1,834.62	2,361.79	2,351.47	10.32	228.773			
2,400.00	2,397.26	2,278.46	2,306.64	8.30	2.67	50.655	1,439.65	1,836.99	2,371.23	2,360.28	10.96	216.441			
2,500.00	2,496.71	2,370.89	2,399.00	8.65	3.00	50.450	1,441.96	1,839.85	2,381.22	2,369.59	11.63	204.740			
2,600.00	2,596.16	2,455.04	2,483.08	9.00	3.31	50.239	1,444.39	1,842.41	2,391.48	2,379.20	12.28	194.816			
2,700.00	2,695.62	2,523.04	2,550.98	9.35	3.56	50.031	1,446.93	1,845.12	2,402.98	2,390.12	12.86	186.860			
2,800.00	2,795.07	2,677.62	2,705.30	9.70	4.12	49.834	1,452.46	1,852.02	2,415.26	2,401.48	13.78	175.324			
2,900.00	2,894.52	2,820.04	2,847.68	10.05	4.63	49.626	1,454.72	1,854.12	2,423.27	2,408.63	14.64	165.498			
3,000.00	2,993.97	2,914.24	2,941.86	10.41	4.97	49.446	1,455.40	1,856.19	2,431.57	2,416.24	15.33	158.624			
3,100.00	3,093.42	3,043.53	3,071.13	10.76	5.43	49.280	1,455.41	1,858.28	2,438.93	2,422.78	16.14	151.087			
3,200.00	3,192.87	3,155.27	3,182.87	11.12	5.82	49.097	1,455.55	1,859.34	2,445.98	2,429.09	16.89	144.799			
3,300.00	3,292.33	3,261.93	3,289.52	11.48	6.19	48.907	1,455.45	1,859.63	2,452.38	2,434.76	17.62	139.182			
3,400.00	3,391.78	3,342.42	3,370.01	11.83	6.47	48.720	1,455.39	1,860.01	2,459.02	2,440.76	18.25	134.707			
3,500.00	3,491.23	3,448.50	3,476.08	12.19	6.85	48.525	1,455.93	1,860.57	2,466.07	2,447.08	18.99	129.866			
3,600.00	3,590.68	3,545.65	3,573.23	12.55	7.20	48.338	1,456.14	1,861.20	2,473.05	2,453.36	19.69	125.589			
3,700.00	3,690.13	3,635.61	3,663.20	12.91	7.52	48.153	1,456.47	1,862.00	2,480.32	2,459.96	20.37	121.776			
3,800.00	3,789.59	3,728.09	3,755.67	13.27	7.85	47.964	1,457.18	1,862.91	2,487.97	2,466.91	21.05	118.172			
3,900.00	3,889.04	3,830.96	3,858.52	13.63	8.22	47.765	1,458.39	1,863.60	2,495.68	2,473.91	21.78	114.604			
4,000.00	3,988.49	3,983.11	4,010.66	13.99	8.74	47.538	1,460.30	1,863.19	2,503.04	2,480.38	22.66	110.443			
4,100.00	4,087.94	4,096.20	4,123.74	14.35	9.11	47.337	1,459.72	1,861.69	2,508.19	2,484.80	23.39	107.220			
4,200.00	4,187.39	4,194.55	4,222.08	14.72	9.43	47.137	1,459.20	1,860.27	2,513.31	2,489.23	24.07	104.397			
4,300.00	4,286.84	4,288.65	4,316.17	15.08	9.74	46.941	1,458.72	1,859.10	2,518.60	2,493.86	24.74	101.787			
4,400.00	4,386.30	4,386.96	4,414.47	15.44	10.07	46.749	1,458.19	1,858.02	2,524.02	2,498.59	25.43	99.257			
4,500.00	4,485.75	4,434.00	4,461.51	15.80	10.23	46.561	1,458.05	1,857.59	2,530.17	2,504.24	25.94	97.548			
4,600.00	4,585.20	4,469.50	4,496.99	16.17	10.35	46.361	1,458.88	1,857.39	2,538.65	2,512.25	26.40	96.171			
4,700.00	4,684.65	4,496.00	4,523.42	16.53	10.45	46.148	1,460.86	1,857.46	2,550.30	2,523.50	26.81	95.135			
4,800.00	4,784.10	4,511.74	4,539.05	16.89	10.50	45.940	1,462.70	1,857.56	2,564.97	2,537.82	27.15	94.470			

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 115H
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 115H	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		
4,900.00	4,883.56	4,527.00	4,554.15	17.26	10.56	45.726	1,464.89	1,857.65	2,582.65	2,555.18	27.47	94.021			
5,000.00	4,983.01	4,558.00	4,584.57	17.62	10.67	45.453	1,470.80	1,857.59	2,603.07	2,575.23	27.84	93.498			
5,100.00	5,082.46	4,589.00	4,614.55	17.99	10.79	45.142	1,478.68	1,856.98	2,626.32	2,598.13	28.20	93.145			
5,200.00	5,181.91	4,607.07	4,631.73	18.35	10.85	44.870	1,484.20	1,856.32	2,652.27	2,623.80	28.47	93.171			
5,300.00	5,281.36	4,620.00	4,643.87	18.72	10.90	44.618	1,488.63	1,855.66	2,681.03	2,652.34	28.69	93.455			
5,400.00	5,380.82	4,651.00	4,672.33	19.08	11.02	44.228	1,500.72	1,853.64	2,712.43	2,683.44	28.99	93.562			
5,500.00	5,480.27	4,673.00	4,692.01	19.45	11.10	43.884	1,510.40	1,851.94	2,746.55	2,717.33	29.23	93.974			
5,600.00	5,579.72	4,673.00	4,692.01	19.81	11.10	43.716	1,510.40	1,851.94	2,783.37	2,754.05	29.31	94.951			
5,700.00	5,679.17	4,739.00	4,748.42	20.18	11.36	42.942	1,543.84	1,844.89	2,822.44	2,792.65	29.79	94.741			
5,800.00	5,778.62	4,739.00	4,748.42	20.54	11.36	42.778	1,543.84	1,844.89	2,863.43	2,833.58	29.85	95.936			
5,900.00	5,878.07	4,754.55	4,761.00	20.91	11.43	42.452	1,552.71	1,842.67	2,907.07	2,877.09	29.99	96.946			
6,000.00	5,977.53	4,768.00	4,771.53	21.27	11.49	42.141	1,560.79	1,840.53	2,953.10	2,923.00	30.10	98.117			
6,100.00	6,076.98	4,785.10	4,784.47	21.64	11.57	41.780	1,571.56	1,837.49	3,001.39	2,971.17	30.22	99.308			
6,200.00	6,176.43	4,799.00	4,794.60	22.01	11.63	41.451	1,580.66	1,834.73	3,051.86	3,021.54	30.32	100.671			
6,300.00	6,275.88	4,817.11	4,807.33	22.37	11.72	41.063	1,592.92	1,830.80	3,104.39	3,073.96	30.43	102.013			
6,400.00	6,375.33	4,829.00	4,815.41	22.74	11.78	40.751	1,601.19	1,828.02	3,158.91	3,128.42	30.49	103.597			
6,425.72	6,400.92	4,829.00	4,815.41	22.83	11.78	40.711	1,601.19	1,828.02	3,173.27	3,142.79	30.49	104.090			
6,500.00	6,474.83	4,844.32	4,825.49	23.10	11.86	40.398	1,612.09	1,824.27	3,215.10	3,184.53	30.57	105.167			
6,600.00	6,574.49	4,859.00	4,834.82	23.47	11.94	40.075	1,622.80	1,820.52	3,272.24	3,241.60	30.64	106.790			
6,700.00	6,674.27	4,859.00	4,834.82	23.83	11.94	39.981	1,622.80	1,820.52	3,330.28	3,299.68	30.60	108.836			
6,800.00	6,774.15	4,888.00	4,852.22	24.19	12.10	39.502	1,644.66	1,812.78	3,389.15	3,358.39	30.76	110.177			
6,900.00	6,874.11	4,888.00	4,852.22	24.55	12.10	39.458	1,644.66	1,812.78	3,448.61	3,417.91	30.71	112.306			
7,000.00	6,974.10	4,888.00	4,852.22	24.90	12.10	39.439	1,644.66	1,812.78	3,508.94	3,478.29	30.65	114.484			
7,025.90	7,000.00	4,888.00	4,852.22	24.99	12.10	39.439	1,644.66	1,812.78	3,524.69	3,494.06	30.63	115.066			
7,100.00	7,074.10	4,904.41	4,861.52	25.23	12.20	39.203	1,657.43	1,808.33	3,570.09	3,539.39	30.70	116.298			
7,200.00	7,174.10	4,918.00	4,868.97	25.56	12.29	39.006	1,668.20	1,804.71	3,632.87	3,602.14	30.73	118.232			
7,300.00	7,274.10	4,918.00	4,868.97	25.89	12.29	39.006	1,668.20	1,804.71	3,697.13	3,666.47	30.66	120.596			
7,400.00	7,374.10	4,918.00	4,868.97	26.22	12.29	39.006	1,668.20	1,804.71	3,762.95	3,732.36	30.59	123.007			
7,500.00	7,474.10	4,918.00	4,868.97	26.55	12.29	39.006	1,668.20	1,804.71	3,830.25	3,799.72	30.53	125.456			
7,600.00	7,574.10	4,933.50	4,877.18	26.88	12.39	38.785	1,680.78	1,800.87	3,898.59	3,868.00	30.59	127.451			
7,700.00	7,674.10	4,949.00	4,885.05	27.21	12.49	38.568	1,693.71	1,797.55	3,968.58	3,937.93	30.65	129.461			
7,800.00	7,774.10	4,949.00	4,885.05	27.55	12.49	38.568	1,693.71	1,797.55	4,039.49	4,008.88	30.61	131.965			
7,900.00	7,874.10	4,949.00	4,885.05	27.88	12.49	38.568	1,693.71	1,797.55	4,111.60	4,081.03	30.57	134.486			
8,000.00	7,974.10	4,949.00	4,885.05	28.21	12.49	38.568	1,693.71	1,797.55	4,184.86	4,154.32	30.54	137.018			
8,100.00	8,074.10	4,949.00	4,885.05	28.55	12.49	38.568	1,693.71	1,797.55	4,259.21	4,228.69	30.52	139.554			
8,200.00	8,174.10	4,963.33	4,892.01	28.88	12.59	38.369	1,705.91	1,794.73	4,334.40	4,303.79	30.61	141.603			
8,300.00	8,274.10	4,981.00	4,900.16	29.22	12.72	38.123	1,721.20	1,791.27	4,410.71	4,379.97	30.73	143.529			
8,347.73	8,321.83	4,981.00	4,900.16	29.38	12.72	38.123	1,721.20	1,791.27	4,447.33	4,416.60	30.73	144.726			
8,350.00	8,324.10	4,981.00	4,900.16	29.39	12.72	38.123	1,721.20	1,791.27	4,449.07	4,418.34	30.73	144.784			
8,400.00	8,374.02	4,981.00	4,900.16	29.55	12.72	38.153	1,721.20	1,791.27	4,486.42	4,455.70	30.72	146.038			
8,450.00	8,423.55	4,981.00	4,900.16	29.72	12.72	38.237	1,721.20	1,791.27	4,521.59	4,490.89	30.70	147.272			
8,500.00	8,472.31	4,981.00	4,900.16	29.87	12.72	38.376	1,721.20	1,791.27	4,554.34	4,523.66	30.68	148.465			
8,550.00	8,519.92	4,981.00	4,900.16	30.03	12.72	38.570	1,721.20	1,791.27	4,584.49	4,553.85	30.64	149.613			
8,600.00	8,566.02	4,981.00	4,900.16	30.18	12.72	38.818	1,721.20	1,791.27	4,611.86	4,581.26	30.60	150.713			
8,650.00	8,610.27	4,981.00	4,900.16	30.32	12.72	39.121	1,721.20	1,791.27	4,636.29	4,605.74	30.55	151.762			
8,700.00	8,652.32	4,981.00	4,900.16	30.45	12.72	39.477	1,721.20	1,791.27	4,657.64	4,627.15	30.49	152.756			
8,750.00	8,691.85	4,997.22	4,907.11	30.58	12.84	39.645	1,735.51	1,788.12	4,675.44	4,644.90	30.54	153.112			
8,800.00	8,728.57	5,012.00	4,912.90	30.70	12.95	39.879	1,748.82	1,785.31	4,690.30	4,659.74	30.56	153.466			
8,850.00	8,762.19	5,012.00	4,912.90	30.81	12.95	40.386	1,748.82	1,785.31	4,701.48	4,671.00	30.48	154.258			
8,900.00	8,792.47	5,012.00	4,912.90	30.91	12.95	40.942	1,748.82	1,785.31	4,709.21	4,678.82	30.39	154.976			

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 115H
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 115H	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		
8,950.00	8,819.16	5,012.00	4,912.90	31.01	12.95	41.548	1,748.82	1,785.31	4,713.45	4,683.16	30.29	155.614			
9,000.00	8,842.06	5,012.00	4,912.90	31.10	12.95	42.200	1,748.82	1,785.31	4,714.18	4,683.99	30.19	156.164			
9,050.00	8,861.01	5,012.00	4,912.90	31.18	12.95	42.896	1,748.82	1,785.31	4,711.39	4,681.31	30.08	156.619			
9,100.00	8,875.85	5,012.00	4,912.90	31.25	12.95	43.635	1,748.82	1,785.31	4,705.11	4,675.13	29.97	156.972			
9,150.00	8,886.47	5,029.16	4,918.96	31.32	13.09	44.106	1,764.52	1,782.01	4,695.01	4,665.03	29.98	156.604			
9,200.00	8,892.80	5,044.00	4,923.64	31.38	13.21	44.637	1,778.30	1,779.06	4,681.78	4,651.81	29.97	156.216			
9,249.73	8,894.78	5,044.00	4,923.64	31.43	13.21	45.459	1,778.30	1,779.06	4,665.05	4,635.18	29.86	156.210			
9,300.00	8,894.61	5,044.00	4,923.64	31.48	13.21	46.314	1,778.30	1,779.06	4,646.73	4,616.98	29.76	156.149			
9,400.00	8,894.26	5,044.00	4,923.64	31.60	13.21	48.090	1,778.30	1,779.06	4,611.72	4,582.15	29.56	156.008			
9,500.00	8,893.91	5,077.00	4,932.83	31.75	13.49	49.271	1,809.30	1,772.49	4,578.19	4,548.59	29.60	154.667			
9,600.00	8,893.56	5,140.00	4,948.64	31.92	14.07	49.821	1,868.44	1,757.71	4,545.55	4,515.68	29.86	152.204			
9,700.00	8,893.21	5,140.00	4,948.64	32.11	14.07	51.824	1,868.44	1,757.71	4,514.39	4,484.66	29.74	151.809			
9,800.00	8,892.86	5,172.00	4,955.01	32.32	14.39	53.156	1,898.56	1,748.98	4,484.85	4,455.00	29.85	150.271			
9,900.00	8,892.51	5,172.00	4,955.01	32.56	14.39	55.361	1,898.56	1,748.98	4,457.08	4,427.31	29.77	149.693			
10,000.00	8,892.17	5,204.00	4,959.90	32.82	14.73	56.837	1,928.95	1,740.24	4,431.23	4,401.30	29.93	148.030			
10,100.00	8,891.82	5,204.00	4,959.90	33.09	14.73	59.256	1,928.95	1,740.24	4,406.98	4,377.05	29.93	147.264			
10,200.00	8,891.47	5,204.00	4,959.90	33.39	14.73	61.801	1,928.95	1,740.24	4,384.87	4,354.92	29.95	146.397			
10,300.00	8,891.12	5,236.00	4,963.14	33.71	15.07	63.526	1,959.52	1,731.39	4,364.40	4,334.21	30.19	144.554			
10,400.00	8,890.77	5,236.00	4,963.14	34.04	15.07	66.291	1,959.52	1,731.39	4,345.98	4,315.69	30.28	143.515			
10,500.00	8,890.42	5,236.00	4,963.14	34.40	15.07	69.177	1,959.52	1,731.39	4,329.78	4,299.37	30.41	142.389			
10,600.00	8,890.07	5,266.00	4,963.94	34.77	15.40	71.217	1,988.33	1,723.06	4,315.59	4,284.87	30.72	140.500			
10,700.00	8,889.72	5,266.00	4,963.94	35.16	15.40	74.302	1,988.33	1,723.06	4,303.26	4,272.35	30.90	139.247			
10,800.00	8,889.37	5,266.00	4,963.94	35.57	15.40	77.481	1,988.33	1,723.06	4,293.22	4,262.10	31.13	137.935			
10,900.00	8,889.02	5,298.00	4,963.04	35.99	15.77	79.677	2,019.12	1,714.40	4,285.01	4,253.49	31.52	135.959			
11,000.00	8,888.68	5,485.05	4,957.06	36.43	18.11	76.693	2,199.41	1,665.00	4,277.70	4,244.96	32.73	130.689			
11,100.00	8,888.33	5,626.65	4,956.02	36.89	20.06	75.171	2,336.18	1,628.39	4,268.14	4,234.30	33.84	126.122			
11,200.00	8,887.98	5,641.00	4,956.04	37.36	20.27	78.058	2,350.11	1,624.91	4,259.00	4,224.80	34.19	124.551			
11,300.00	8,887.63	5,659.19	4,955.80	37.84	20.53	80.884	2,367.82	1,620.77	4,251.79	4,217.20	34.60	122.902			
11,400.00	8,887.28	5,678.00	4,955.09	38.34	20.79	83.745	2,386.20	1,616.84	4,246.71	4,211.69	35.02	121.271			
11,500.00	8,886.93	5,698.30	4,954.00	38.85	21.09	86.596	2,406.06	1,612.78	4,243.54	4,208.07	35.47	119.640			
11,600.00	8,886.58	5,949.84	4,949.14	39.37	24.77	81.107	2,653.77	1,570.17	4,238.02	4,200.53	37.49	113.048			
11,700.00	8,886.23	6,059.00	4,949.16	39.90	26.42	80.728	2,761.56	1,552.93	4,232.06	4,193.46	38.60	109.632			
11,800.00	8,885.88	6,119.75	4,948.76	40.45	27.35	82.145	2,821.54	1,543.29	4,226.64	4,187.26	39.38	107.332			
11,900.00	8,885.53	6,177.00	4,948.26	41.01	28.24	83.721	2,878.07	1,534.24	4,221.79	4,181.65	40.14	105.179			
12,000.00	8,885.19	6,268.00	4,946.52	41.58	29.66	84.047	2,967.92	1,519.93	4,217.78	4,176.62	41.16	102.481			
12,100.00	8,884.84	6,301.00	4,945.42	42.15	30.18	86.593	3,000.49	1,514.73	4,214.87	4,173.12	41.76	100.938			
12,200.00	8,884.49	6,360.00	4,942.76	42.74	31.12	88.180	3,058.68	1,505.37	4,213.23	4,170.68	42.55	99.018			
12,283.64	8,884.20	6,391.18	4,940.98	43.24	31.61	90.218	3,089.41	1,500.39	4,212.77	4,169.68	43.09	97.772			
12,300.00	8,884.14	6,398.74	4,940.51	43.34	31.73	90.563	3,096.85	1,499.18	4,212.78	4,169.58	43.20	97.511			
12,400.00	8,883.79	6,452.00	4,936.70	43.94	32.58	92.414	3,149.28	1,490.63	4,213.66	4,169.69	43.96	95.848			
12,500.00	8,883.44	6,486.10	4,933.76	44.56	33.13	95.005	3,182.81	1,485.11	4,215.84	4,171.26	44.59	94.552			
12,600.00	8,883.09	6,541.00	4,928.12	45.18	34.01	96.824	3,236.67	1,476.12	4,219.54	4,174.18	45.36	93.026			
12,700.00	8,882.74	6,560.12	4,925.84	45.81	34.32	99.962	3,255.39	1,472.94	4,224.58	4,178.70	45.88	92.077			
12,800.00	8,882.39	6,603.00	4,920.05	46.45	35.02	102.217	3,297.26	1,465.75	4,231.32	4,184.75	46.57	90.869			
12,900.00	8,882.04	6,881.65	4,889.67	47.10	39.53	95.690	3,570.97	1,423.77	4,236.20	4,187.26	48.94	86.552			
13,000.00	8,881.69	6,955.00	4,883.22	47.75	40.72	96.856	3,643.20	1,412.79	4,239.51	4,189.64	49.87	85.012			
13,100.00	8,881.35	6,955.00	4,883.22	48.41	40.72	100.848	3,643.20	1,412.79	4,244.50	4,194.24	50.26	84.450			
13,200.00	8,881.00	6,955.00	4,883.22	49.08	40.72	104.734	3,643.20	1,412.79	4,251.85	4,201.20	50.65	83.946			
13,300.00	8,880.65	6,955.00	4,883.22	49.75	40.72	108.483	3,643.20	1,412.79	4,261.52	4,210.49	51.03	83.502			
13,400.00	8,880.30	6,955.00	4,883.22	50.43	40.72	112.072	3,643.20	1,412.79	4,273.52	4,222.10	51.41	83.119			
13,500.00	8,879.95	6,955.00	4,883.22	51.11	40.72	115.486	3,643.20	1,412.79	4,287.81	4,236.03	51.79	82.796			

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 115H
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 115H	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)			Offset Site Error:	Offset Well Error:
13,600.00	8,879.60	6,955.00	4,883.22	51.80	40.72	118.714	3,643.20	1,412.79	4,304.38	4,252.23	52.15	82.533	0.00 usft	0.00 usft
13,700.00	8,879.25	6,955.00	4,883.22	52.50	40.72	121.752	3,643.20	1,412.79	4,323.21	4,270.70	52.51	82.331		
13,800.00	8,878.90	6,955.00	4,883.22	53.20	40.72	124.601	3,643.20	1,412.79	4,344.25	4,291.39	52.86	82.188		
13,900.00	8,878.55	6,955.00	4,883.22	53.90	40.72	127.265	3,643.20	1,412.79	4,367.48	4,314.28	53.19	82.105		
14,000.00	8,878.20	6,955.00	4,883.22	54.61	40.72	129.751	3,643.20	1,412.79	4,392.86	4,339.34	53.52	82.079 SF		
14,100.00	8,877.86	6,955.00	4,883.22	55.33	40.72	132.069	3,643.20	1,412.79	4,420.36	4,366.53	53.83	82.110		
14,200.00	8,877.51	6,955.00	4,883.22	56.04	40.72	134.227	3,643.20	1,412.79	4,449.94	4,395.81	54.14	82.196		
14,300.00	8,877.16	6,955.00	4,883.22	56.77	40.72	136.236	3,643.20	1,412.79	4,481.56	4,427.13	54.43	82.337		
14,400.00	8,876.81	6,955.00	4,883.22	57.49	40.72	138.107	3,643.20	1,412.79	4,515.17	4,460.46	54.71	82.532		
14,500.00	8,876.46	6,955.00	4,883.22	58.22	40.72	139.849	3,643.20	1,412.79	4,550.73	4,495.75	54.98	82.777		
14,600.00	8,876.11	6,955.00	4,883.22	58.96	40.72	141.473	3,643.20	1,412.79	4,588.19	4,532.96	55.23	83.073		
14,700.00	8,875.76	6,955.00	4,883.22	59.70	40.72	142.988	3,643.20	1,412.79	4,627.52	4,572.04	55.47	83.418		
14,800.00	8,875.41	6,955.00	4,883.22	60.44	40.72	144.403	3,643.20	1,412.79	4,668.65	4,612.94	55.71	83.809		
14,900.00	8,875.06	6,955.00	4,883.22	61.18	40.72	145.726	3,643.20	1,412.79	4,711.55	4,655.62	55.93	84.246		
15,000.00	8,874.71	6,955.00	4,883.22	61.93	40.72	146.963	3,643.20	1,412.79	4,756.16	4,700.02	56.14	84.727		
15,100.00	8,874.36	6,955.00	4,883.22	62.68	40.72	148.123	3,643.20	1,412.79	4,802.44	4,746.11	56.33	85.250		
15,200.00	8,874.02	6,955.00	4,883.22	63.43	40.72	149.211	3,643.20	1,412.79	4,850.34	4,793.82	56.52	85.813		
15,300.00	8,873.67	6,955.00	4,883.22	64.19	40.72	150.233	3,643.20	1,412.79	4,899.82	4,843.11	56.70	86.416		
15,400.00	8,873.32	6,955.00	4,883.22	64.95	40.72	151.194	3,643.20	1,412.79	4,950.82	4,893.95	56.87	87.056		
15,500.00	8,872.97	6,955.00	4,883.22	65.71	40.72	152.100	3,643.20	1,412.79	5,003.29	4,946.26	57.03	87.732		
15,600.00	8,872.62	6,955.00	4,883.22	66.48	40.72	152.953	3,643.20	1,412.79	5,057.21	5,000.03	57.18	88.443		
15,700.00	8,872.27	6,955.00	4,883.22	67.24	40.72	153.759	3,643.20	1,412.79	5,112.51	5,055.18	57.32	89.187		
15,800.00	8,871.92	6,955.00	4,883.22	68.01	40.72	154.521	3,643.20	1,412.79	5,169.15	5,111.69	57.46	89.962		
15,900.00	8,871.57	6,955.00	4,883.22	68.79	40.72	155.242	3,643.20	1,412.79	5,227.09	5,169.50	57.59	90.768		
16,000.00	8,871.22	6,955.00	4,883.22	69.56	40.72	155.926	3,643.20	1,412.79	5,286.29	5,228.58	57.71	91.602		
16,100.00	8,870.87	6,955.00	4,883.22	70.34	40.72	156.574	3,643.20	1,412.79	5,346.70	5,288.88	57.82	92.464		
16,200.00	8,870.53	6,955.00	4,883.22	71.11	40.72	157.189	3,643.20	1,412.79	5,408.29	5,350.36	57.93	93.353		
16,300.00	8,870.18	6,955.00	4,883.22	71.90	40.72	157.775	3,643.20	1,412.79	5,471.01	5,412.98	58.04	94.266		
16,400.00	8,869.83	6,955.00	4,883.22	72.68	40.72	158.332	3,643.20	1,412.79	5,534.83	5,476.70	58.14	95.204		
16,500.00	8,869.48	6,955.00	4,883.22	73.46	40.72	158.862	3,643.20	1,412.79	5,599.71	5,541.48	58.23	96.164		
16,600.00	8,869.13	6,955.00	4,883.22	74.25	40.72	159.368	3,643.20	1,412.79	5,665.61	5,607.29	58.32	97.146		
16,700.00	8,868.78	6,955.00	4,883.22	75.04	40.72	159.851	3,643.20	1,412.79	5,732.50	5,674.09	58.41	98.148		
16,800.00	8,868.43	6,955.00	4,883.22	75.83	40.72	160.312	3,643.20	1,412.79	5,800.34	5,741.85	58.49	99.170		
16,900.00	8,868.08	6,955.00	4,883.22	76.62	40.72	160.753	3,643.20	1,412.79	5,869.10	5,810.53	58.57	100.210		
17,000.00	8,867.73	6,955.00	4,883.22	77.41	40.72	161.175	3,643.20	1,412.79	5,938.74	5,880.10	58.64	101.268		
17,100.00	8,867.38	6,955.00	4,883.22	78.21	40.72	161.580	3,643.20	1,412.79	6,009.25	5,950.53	58.72	102.343		
17,200.00	8,867.03	6,955.00	4,883.22	79.00	40.72	161.967	3,643.20	1,412.79	6,080.58	6,021.79	58.79	103.433		
17,300.00	8,866.69	6,955.00	4,883.22	79.80	40.72	162.339	3,643.20	1,412.79	6,152.71	6,093.85	58.86	104.538		
17,400.00	8,866.34	6,955.00	4,883.22	80.60	40.72	162.696	3,643.20	1,412.79	6,225.61	6,166.68	58.92	105.658		
17,500.00	8,865.99	6,955.00	4,883.22	81.40	40.72	163.039	3,643.20	1,412.79	6,299.25	6,240.26	58.99	106.791		
17,600.00	8,865.64	6,955.00	4,883.22	82.20	40.72	163.369	3,643.20	1,412.79	6,373.61	6,314.56	59.05	107.936		
17,700.00	8,865.29	6,955.00	4,883.22	83.01	40.72	163.687	3,643.20	1,412.79	6,448.67	6,389.56	59.11	109.094		
17,800.00	8,864.94	6,955.00	4,883.22	83.81	40.72	163.992	3,643.20	1,412.79	6,524.39	6,465.22	59.17	110.262		
17,900.00	8,864.59	6,955.00	4,883.22	84.62	40.72	164.286	3,643.20	1,412.79	6,600.76	6,541.53	59.23	111.441		
18,000.00	8,864.24	6,955.00	4,883.22	85.42	40.72	164.570	3,643.20	1,412.79	6,677.76	6,618.47	59.29	112.631		
18,100.00	8,863.89	6,955.00	4,883.22	86.23	40.72	164.844	3,643.20	1,412.79	6,755.36	6,696.01	59.35	113.829		
18,200.00	8,863.54	6,955.00	4,883.22	87.04	40.72	165.108	3,643.20	1,412.79	6,833.54	6,774.13	59.40	115.036		
18,300.00	8,863.20	6,955.00	4,883.22	87.85	40.72	165.363	3,643.20	1,412.79	6,912.28	6,852.82	59.46	116.252		
18,400.00	8,862.85	6,955.00	4,883.22	88.66	40.72	165.610	3,643.20	1,412.79	6,991.57	6,932.05	59.52	117.475		
18,500.00	8,862.50	6,955.00	4,883.22	89.47	40.72	165.848	3,643.20	1,412.79	7,071.38	7,011.81	59.57	118.705		

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 115H
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 115H	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	
18,600.00	8,862.15	6,955.00	4,883.22	90.29	40.72	166.079	3,643.20	1,412.79	7,151.70	7,092.07	59.63	119.942		
18,700.00	8,861.80	6,955.00	4,883.22	91.10	40.72	166.302	3,643.20	1,412.79	7,232.50	7,172.82	59.68	121.186		
18,800.00	8,861.45	6,955.00	4,883.22	91.92	40.72	166.518	3,643.20	1,412.79	7,313.79	7,254.05	59.74	122.435		
18,900.00	8,861.10	6,955.00	4,883.22	92.74	40.72	166.728	3,643.20	1,412.79	7,395.53	7,335.74	59.79	123.690		
19,000.00	8,860.75	6,955.00	4,883.22	93.55	40.72	166.931	3,643.20	1,412.79	7,477.72	7,417.87	59.85	124.949		
19,100.00	8,860.40	6,955.00	4,883.22	94.37	40.72	167.127	3,643.20	1,412.79	7,560.33	7,500.43	59.90	126.213		
19,175.37	8,860.14	6,955.00	4,883.22	94.99	40.72	167.272	3,643.20	1,412.79	7,622.88	7,562.93	59.94	127.169		

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 115H
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 115H	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: 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	27.50	0.00	0.00	-118.087	-245.68	-460.37	522.55				
100.00	100.00	71.33	98.83	0.26	0.09	-118.067	-245.56	-460.53	521.91	521.56	0.35	1,484.262	
200.00	200.00	170.79	198.28	0.62	0.37	-117.992	-245.10	-461.12	522.22	521.22	0.99	525.476	
300.00	300.00	270.79	298.28	0.98	0.72	-117.920	-244.68	-461.72	522.55	520.84	1.70	307.003	
400.00	400.00	370.50	397.99	1.34	1.07	-117.851	-244.28	-462.32	522.89	520.49	2.41	217.063	
500.00	500.00	470.51	498.00	1.70	1.42	-117.788	-243.96	-462.94	523.29	520.17	3.12	167.890	
600.00	600.00	570.53	598.01	2.06	1.77	-117.741	-243.75	-463.47	523.67	519.84	3.82	136.910	
700.00	700.00	670.76	698.25	2.41	2.12	-117.701	-243.60	-463.97	524.03	519.50	4.53	115.585	
800.00	800.00	770.55	798.03	2.77	2.47	-117.654	-243.38	-464.46	524.37	519.13	5.24	100.051	
900.00	900.00	869.69	897.17	3.13	2.82	-117.601	-243.15	-465.08	524.82	518.87	5.95	88.260	
1,000.00	1,000.00	969.10	996.58	3.49	3.17	-117.551	-243.02	-465.83	525.42	518.77	6.65	78.981	
1,100.00	1,100.00	1,069.56	1,097.03	3.85	3.52	-117.519	-243.06	-466.53	526.06	518.69	7.36	71.449	
1,200.00	1,200.00	1,172.30	1,199.78	4.21	3.88	-117.488	-242.98	-466.99	526.42	518.34	8.08	65.154	
1,300.00	1,300.00	1,275.14	1,302.61	4.57	4.11	-117.503	-243.00	-466.75	526.22	517.56	8.67	60.704	
1,400.00	1,400.00	1,377.99	1,405.46	4.92	4.14	-117.536	-242.92	-465.92	525.47	516.42	9.06	58.023	
1,500.00	1,500.00	1,478.09	1,505.55	5.28	4.20	-117.582	-242.75	-464.70	524.31	514.84	9.47	55.350	
1,600.00	1,599.99	1,581.13	1,608.59	5.62	4.29	-117.547	-242.53	-463.22	522.59	512.69	9.90	52.768	
1,700.00	1,699.96	1,682.96	1,710.39	5.95	4.41	-117.342	-242.18	-461.37	519.79	509.44	10.35	50.235	
1,800.00	1,799.86	1,784.00	1,811.41	6.28	4.55	-116.948	-241.55	-459.15	515.85	505.03	10.82	47.683	
1,900.00	1,899.68	1,881.71	1,909.10	6.61	4.71	-116.354	-241.02	-457.40	511.68	500.36	11.31	45.229	
2,000.00	1,999.37	1,981.03	2,008.41	6.94	4.90	-115.527	-240.14	-455.73	506.87	495.04	11.83	42.843	
2,100.00	2,098.90	2,078.68	2,106.04	7.28	5.09	-114.501	-239.42	-454.37	501.89	489.52	12.37	40.582	
2,100.18	2,099.08	2,078.86	2,106.22	7.28	5.09	-114.499	-239.42	-454.37	501.88	489.51	12.37	40.578	
2,200.00	2,198.36	2,176.68	2,204.03	7.62	5.31	-113.426	-239.37	-453.10	497.15	484.23	12.92	38.475	
2,300.00	2,297.81	2,282.27	2,309.59	7.96	5.55	-112.457	-240.10	-450.88	492.13	478.62	13.51	36.435	
2,400.00	2,397.26	2,379.66	2,406.95	8.30	5.79	-111.479	-240.77	-448.26	486.71	472.62	14.09	34.534	
2,500.00	2,496.71	2,471.87	2,499.15	8.65	6.03	-110.343	-240.70	-446.94	482.35	467.67	14.68	32.862	
2,600.00	2,596.16	2,569.09	2,596.36	9.00	6.28	-109.039	-239.77	-446.92	479.21	463.93	15.28	31.368	
2,700.00	2,695.62	2,669.87	2,697.13	9.35	6.55	-107.637	-238.26	-447.31	476.55	460.66	15.89	29.987	
2,800.00	2,795.07	2,769.45	2,796.70	9.70	6.82	-106.356	-237.79	-447.24	474.02	457.50	16.52	28.697	
2,900.00	2,894.52	2,870.95	2,898.21	10.05	7.11	-105.147	-237.86	-446.52	471.26	454.10	17.16	27.459	
3,000.00	2,993.97	2,970.99	2,998.24	10.41	7.41	-103.948	-238.11	-445.67	468.62	450.81	17.81	26.313	
3,100.00	3,093.42	3,069.21	3,096.46	10.76	7.70	-102.712	-238.15	-444.80	466.11	447.65	18.46	25.251	
3,200.00	3,192.87	3,164.38	3,191.63	11.12	7.98	-101.470	-238.38	-444.56	464.47	445.37	19.09	24.325	
3,300.00	3,292.33	3,263.39	3,290.64	11.48	8.27	-100.198	-238.50	-444.75	463.47	443.74	19.74	23.482	
3,400.00	3,391.78	3,362.35	3,389.59	11.83	8.56	-98.849	-238.10	-445.36	463.03	442.64	20.39	22.713	
3,458.36	3,449.82	3,419.28	3,446.52	12.04	8.73	-98.055	-237.82	-445.68	462.86	442.10	20.76	22.291	
3,500.00	3,491.23	3,458.85	3,486.09	12.19	8.84	-97.469	-237.48	-446.09	462.96	441.93	21.03	22.013	
3,600.00	3,590.68	3,560.57	3,587.80	12.55	9.15	-96.068	-236.70	-447.01	463.29	441.59	21.70	21.351	
3,700.00	3,690.13	3,660.47	3,687.70	12.91	9.46	-94.738	-236.46	-447.66	463.69	441.32	22.36	20.734	
3,800.00	3,789.59	3,763.02	3,790.25	13.27	9.78	-93.376	-235.90	-447.85	463.84	440.80	23.05	20.127	
3,856.65	3,845.93	3,820.07	3,847.29	13.47	9.96	-92.569	-235.28	-447.73	463.82	440.39	23.43	19.794	
3,900.00	3,889.04	3,862.44	3,889.65	13.63	10.10	-91.944	-234.75	-447.66	463.88	440.16	23.73	19.552	
4,000.00	3,988.49	3,962.22	3,989.43	13.99	10.42	-90.488	-233.40	-447.61	464.34	439.93	24.41	19.024	
4,100.00	4,087.94	4,053.52	4,080.72	14.35	10.71	-89.063	-232.26	-447.88	465.47	440.41	25.06	18.575	
4,200.00	4,187.39	4,147.94	4,175.10	14.72	11.01	-87.712	-231.59	-450.17	468.93	443.22	25.71	18.236	
4,300.00	4,286.84	4,258.07	4,285.22	15.08	11.37	-86.450	-231.50	-452.18	472.07	445.64	26.44	17.855	
4,400.00	4,386.30	4,359.70	4,386.85	15.44	11.70	-85.232	-231.80	-452.10	473.49	446.36	27.13	17.452	
4,500.00	4,485.75	4,462.10	4,489.25	15.80	12.03	-84.023	-232.14	-451.72	474.82	446.99	27.83	17.063	
4,600.00	4,585.20	4,563.44	4,590.59	16.17	12.36	-82.797	-232.29	-451.28	476.34	447.82	28.52	16.701	
4,700.00	4,684.65	5,185.24	5,074.87	16.53	15.63	-64.300	-230.38	-127.70	424.12	405.94	18.18	23.323	

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 115H
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 115H	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	
4,800.00	4,784.10	5,241.69	5,092.12	16.89	16.28	-47.973	-225.46	-74.20	334.54	315.79	18.75	17.842		
4,900.00	4,883.56	5,269.67	5,099.20	17.26	16.62	-34.859	-221.38	-47.45	248.86	227.40	21.46	11.597		
5,000.00	4,983.01	5,295.26	5,104.76	17.62	16.95	-21.998	-216.94	-22.87	175.19	147.95	27.24	6.431		
5,100.00	5,082.46	5,314.50	5,108.32	17.99	17.21	-12.656	-213.40	-4.30	136.49	101.92	34.57	3.948		
5,112.18	5,094.57	5,316.53	5,108.67	18.03	17.24	-11.730	-213.02	-2.33	135.96	101.03	34.92	3.893 CC, ES, SF		
5,200.00	5,181.91	5,328.00	5,110.55	18.35	17.40	-6.765	-210.93	8.79	161.30	129.25	32.05	5.032		
5,300.00	5,281.36	5,338.28	5,112.01	18.72	17.54	-2.863	-209.03	18.79	230.37	204.21	26.16	8.807		
5,400.00	5,380.82	5,344.55	5,112.76	19.08	17.63	-0.837	-207.84	24.90	316.15	293.54	22.60	13.986		
5,500.00	5,480.27	5,349.16	5,113.24	19.45	17.70	0.412	-206.95	29.39	408.31	387.61	20.70	19.728		
5,600.00	5,579.72	5,360.00	5,114.15	19.81	17.85	3.321	-204.81	39.98	503.54	483.77	19.76	25.478		
5,700.00	5,679.17	5,360.00	5,114.15	20.18	17.85	2.935	-204.81	39.98	600.11	581.01	19.10	31.425		
5,800.00	5,778.62	5,360.00	5,114.15	20.54	17.85	2.587	-204.81	39.98	697.65	678.94	18.71	37.286		
5,900.00	5,878.07	5,360.00	5,114.15	20.91	17.85	2.271	-204.81	39.98	795.80	777.30	18.50	43.025		
6,000.00	5,977.53	5,360.00	5,114.15	21.27	17.85	1.983	-204.81	39.98	894.36	875.97	18.39	48.629		
6,100.00	6,076.98	5,360.00	5,114.15	21.64	17.85	1.720	-204.81	39.98	993.20	974.84	18.36	54.093		
6,200.00	6,176.43	5,360.00	5,114.15	22.01	17.85	1.478	-204.81	39.98	1,092.26	1,073.88	18.38	59.415		
6,300.00	6,275.88	5,360.00	5,114.15	22.37	17.85	1.255	-204.81	39.98	1,191.48	1,173.03	18.44	64.599		
6,400.00	6,375.33	5,360.00	5,114.15	22.74	17.85	1.049	-204.81	39.98	1,290.81	1,272.28	18.53	69.645		
6,425.72	6,400.92	5,360.00	5,114.15	22.83	17.85	0.999	-204.81	39.98	1,316.38	1,297.82	18.56	70.921		
6,500.00	6,474.83	5,360.00	5,114.15	23.10	17.85	0.867	-204.81	39.98	1,390.19	1,371.55	18.64	74.570		
6,600.00	6,574.49	5,360.00	5,114.15	23.47	17.85	0.725	-204.81	39.98	1,489.48	1,470.72	18.76	79.403		
6,700.00	6,674.27	5,371.77	5,114.83	23.83	18.02	2.795	-202.45	51.49	1,588.49	1,569.53	18.96	83.780		
6,800.00	6,774.15	5,372.86	5,114.88	24.19	18.04	2.883	-202.23	52.56	1,687.52	1,668.42	19.09	88.379		
6,900.00	6,874.11	5,373.92	5,114.93	24.55	18.05	3.001	-202.02	53.59	1,786.41	1,767.18	19.23	92.875		
7,000.00	6,974.10	5,374.94	5,114.97	24.90	18.07	3.152	-201.82	54.59	1,885.18	1,865.79	19.38	97.265		
7,025.90	7,000.00	5,457.00	5,120.14	24.99	19.33	16.424	-184.24	134.54	1,910.99	1,890.99	20.00	95.548		
7,100.00	7,074.10	5,457.00	5,120.14	25.23	19.33	16.424	-184.24	134.54	1,983.92	1,963.82	20.10	98.722		
7,200.00	7,174.10	5,468.44	5,121.13	25.56	19.52	18.054	-181.70	145.65	2,082.46	2,062.13	20.33	102.447		
7,300.00	7,274.10	5,482.29	5,122.35	25.89	19.74	19.954	-178.60	159.09	2,181.08	2,160.50	20.59	105.949		
7,400.00	7,374.10	5,487.66	5,122.84	26.22	19.83	20.669	-177.39	164.30	2,279.77	2,258.99	20.79	109.662		
7,500.00	7,474.10	5,497.16	5,123.69	26.55	19.99	21.904	-175.25	173.51	2,378.55	2,357.51	21.03	113.090		
7,600.00	7,574.10	5,502.23	5,124.14	26.88	20.08	22.549	-174.11	178.43	2,477.40	2,456.15	21.25	116.582		
7,700.00	7,674.10	5,507.12	5,124.56	27.21	20.16	23.162	-173.00	183.19	2,576.33	2,554.85	21.47	119.972		
7,800.00	7,774.10	5,511.85	5,124.96	27.55	20.24	23.745	-171.94	187.78	2,675.32	2,653.62	21.70	123.263		
7,900.00	7,874.10	5,519.00	5,125.56	27.88	20.36	24.610	-170.33	194.71	2,774.37	2,752.41	21.96	126.355		
8,000.00	7,974.10	5,519.00	5,125.56	28.21	20.36	24.610	-170.33	194.71	2,873.47	2,851.31	22.17	129.629		
8,100.00	8,074.10	5,519.00	5,125.56	28.55	20.36	24.610	-170.33	194.71	2,972.63	2,950.25	22.38	132.804		
8,200.00	8,174.10	5,519.00	5,125.56	28.88	20.36	24.610	-170.33	194.71	3,071.85	3,049.24	22.61	135.883		
8,300.00	8,274.10	5,519.00	5,125.56	29.22	20.36	24.610	-170.33	194.71	3,171.11	3,148.28	22.84	138.869		
8,347.73	8,321.83	5,530.27	5,126.44	29.38	20.55	25.935	-167.80	205.66	3,218.46	3,195.44	23.02	139.818		
8,350.00	8,324.10	5,530.33	5,126.45	29.39	20.55	25.943	-167.78	205.72	3,220.71	3,197.68	23.02	139.882		
8,400.00	8,374.02	5,531.83	5,126.56	29.55	20.58	26.273	-167.44	207.17	3,270.03	3,246.89	23.14	141.290		
8,450.00	8,423.55	5,533.62	5,126.69	29.72	20.61	26.937	-167.04	208.91	3,318.54	3,295.28	23.25	142.703		
8,500.00	8,472.31	5,535.67	5,126.84	29.87	20.65	27.961	-166.58	210.91	3,365.89	3,342.54	23.36	144.103		
8,550.00	8,519.92	5,537.98	5,127.01	30.03	20.68	29.390	-166.06	213.15	3,411.80	3,388.34	23.45	145.476		
8,600.00	8,566.02	5,551.00	5,127.89	30.18	20.91	32.519	-163.13	225.81	3,456.01	3,432.40	23.61	146.409		
8,650.00	8,610.27	5,551.00	5,127.89	30.32	20.91	34.698	-163.13	225.81	3,498.14	3,474.47	23.67	147.792		
8,700.00	8,652.32	5,551.00	5,127.89	30.45	20.91	37.565	-163.13	225.81	3,538.04	3,514.31	23.73	149.110		
8,750.00	8,691.85	5,551.00	5,127.89	30.58	20.91	41.325	-163.13	225.81	3,575.46	3,551.68	23.78	150.346		
8,800.00	8,728.57	5,551.00	5,127.89	30.70	20.91	46.258	-163.13	225.81	3,610.21	3,586.38	23.83	151.480		

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 115H
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 115H	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		
8,850.00	8,762.19	5,551.00	5,127.89	30.81	20.91	52.734	-163.13	225.81	3,642.10	3,618.22	23.88	152.493			
8,900.00	8,792.47	5,551.00	5,127.89	30.91	20.91	61.173	-163.13	225.81	3,670.97	3,647.04	23.94	153.365			
8,950.00	8,819.16	5,551.00	5,127.89	31.01	20.91	71.881	-163.13	225.81	3,696.68	3,672.68	23.99	154.078			
9,000.00	8,842.06	5,551.00	5,127.89	31.10	20.91	84.673	-163.13	225.81	3,719.08	3,695.03	24.05	154.610			
9,050.00	8,861.01	5,551.00	5,127.89	31.18	20.91	98.516	-163.13	225.81	3,738.08	3,713.96	24.13	154.945			
9,100.00	8,875.85	5,565.72	5,128.71	31.25	21.17	109.579	-159.81	240.12	3,753.45	3,729.16	24.29	154.533			
9,150.00	8,886.47	5,568.08	5,128.83	31.32	21.21	120.283	-159.27	242.42	3,765.33	3,740.93	24.40	154.346			
9,200.00	8,892.80	5,583.00	5,129.41	31.38	21.47	126.974	-155.89	256.94	3,773.67	3,749.09	24.59	153.485			
9,249.73	8,894.78	5,583.00	5,129.41	31.43	21.47	134.276	-155.89	256.94	3,778.20	3,753.49	24.71	152.909			
9,300.00	8,894.61	5,583.00	5,129.41	31.48	21.47	140.178	-155.89	256.94	3,781.26	3,756.41	24.85	152.155			
9,400.00	8,894.26	5,583.00	5,129.41	31.60	21.47	148.686	-155.89	256.94	3,789.33	3,764.14	25.19	150.409			
9,500.00	8,893.91	5,583.00	5,129.41	31.75	21.47	154.389	-155.89	256.94	3,800.01	3,774.41	25.61	148.395			
9,600.00	8,893.56	5,595.89	5,129.78	31.92	21.70	157.211	-152.93	269.48	3,813.24	3,787.08	26.16	145.754			
9,700.00	8,893.21	5,606.24	5,130.03	32.11	21.89	159.483	-150.51	279.53	3,828.98	3,802.22	26.76	143.068			
9,800.00	8,892.86	5,615.00	5,130.22	32.32	22.05	161.329	-148.43	288.05	3,847.20	3,819.79	27.41	140.360			
9,900.00	8,892.51	5,629.09	5,130.46	32.56	22.30	162.442	-145.07	301.73	3,867.84	3,839.70	28.14	137.454			
10,000.00	8,892.17	5,646.00	5,130.69	32.82	22.61	163.178	-141.05	318.15	3,890.87	3,861.94	28.93	134.486			
10,100.00	8,891.82	5,646.00	5,130.69	33.09	22.61	164.670	-141.05	318.15	3,916.26	3,886.61	29.65	132.102			
10,200.00	8,891.47	5,656.94	5,130.80	33.39	22.81	165.392	-138.49	328.78	3,943.97	3,913.50	30.47	129.458			
10,300.00	8,891.12	5,663.46	5,130.83	33.71	22.93	166.202	-137.00	335.13	3,973.97	3,942.69	31.28	127.061			
10,400.00	8,890.77	5,677.00	5,130.86	34.04	23.18	166.607	-134.02	348.34	4,006.23	3,974.07	32.16	124.572			
10,500.00	8,890.42	5,677.00	5,130.86	34.40	23.18	167.483	-134.02	348.34	4,040.63	4,007.68	32.95	122.632			
10,600.00	8,890.07	5,677.00	5,130.86	34.77	23.18	168.250	-134.02	348.34	4,077.19	4,043.45	33.74	120.832			
10,700.00	8,889.72	5,689.36	5,130.82	35.16	23.42	168.505	-131.37	360.42	4,115.81	4,081.16	34.65	118.793			
10,800.00	8,889.37	5,696.21	5,130.76	35.57	23.55	168.910	-129.91	367.10	4,156.44	4,120.94	35.50	117.070			
10,900.00	8,889.02	5,710.00	5,130.58	35.99	23.81	169.060	-127.00	380.58	4,199.05	4,162.63	36.42	115.280			
11,000.00	8,888.68	5,729.45	5,130.33	36.43	24.18	169.031	-122.83	399.58	4,243.48	4,206.07	37.40	113.452			
11,100.00	8,888.33	5,772.00	5,129.90	36.89	25.01	168.365	-113.58	441.11	4,289.57	4,250.94	38.63	111.056			
11,200.00	8,887.98	5,782.81	5,129.80	37.36	25.22	168.598	-111.24	451.66	4,337.39	4,297.87	39.52	109.748			
11,300.00	8,887.63	5,792.09	5,129.71	37.84	25.40	168.850	-109.28	460.73	4,386.93	4,346.53	40.39	108.609			
11,400.00	8,887.28	5,804.00	5,129.58	38.34	25.64	169.018	-106.80	472.38	4,438.12	4,396.84	41.28	107.507			
11,500.00	8,886.93	5,804.00	5,129.58	38.85	25.64	169.449	-106.80	472.38	4,490.93	4,448.91	42.02	106.874			
11,600.00	8,886.58	5,817.18	5,129.41	39.37	25.90	169.552	-104.12	485.28	4,545.27	4,502.37	42.90	105.941			
11,700.00	8,886.23	5,824.84	5,129.30	39.90	26.06	169.766	-102.58	492.79	4,601.13	4,557.42	43.71	105.275			
11,800.00	8,885.88	5,835.00	5,129.13	40.45	26.26	169.913	-100.57	502.75	4,658.42	4,613.90	44.52	104.625			
11,900.00	8,885.53	5,846.25	5,128.93	41.01	26.49	170.028	-98.37	513.78	4,717.10	4,671.76	45.35	104.024			
12,000.00	8,885.19	5,927.57	5,127.96	41.58	28.15	168.775	-82.20	593.46	4,776.99	4,729.87	47.12	101.383			
12,100.00	8,884.84	5,944.62	5,127.85	42.15	28.50	168.811	-78.71	610.15	4,837.94	4,789.92	48.02	100.757			
12,200.00	8,884.49	5,960.00	5,127.75	42.74	28.82	168.874	-75.66	625.23	4,900.18	4,851.30	48.88	100.251			
12,300.00	8,884.14	5,960.00	5,127.75	43.34	28.82	169.205	-75.66	625.23	4,963.59	4,914.08	49.50	100.270			
12,400.00	8,883.79	5,960.00	5,127.75	43.94	28.82	169.517	-75.66	625.23	5,028.18	4,978.08	50.11	100.352			
12,500.00	8,883.44	5,971.28	5,127.66	44.56	29.06	169.623	-73.49	636.30	5,093.89	5,043.02	50.86	100.149			
12,600.00	8,883.09	5,977.29	5,127.59	45.18	29.18	169.809	-72.35	642.20	5,160.68	5,109.15	51.52	100.159			
12,700.00	8,882.74	5,992.00	5,127.38	45.81	29.49	169.848	-69.59	656.65	5,228.53	5,176.22	52.31	99.957			
12,800.00	8,882.39	5,992.00	5,127.38	46.45	29.49	170.110	-69.59	656.65	5,297.34	5,244.50	52.84	100.246			
12,900.00	8,882.04	5,992.00	5,127.38	47.10	29.49	170.358	-69.59	656.65	5,367.13	5,313.77	53.36	100.581			
13,000.00	8,881.69	5,992.00	5,127.38	47.75	29.49	170.594	-69.59	656.65	5,437.86	5,384.00	53.86	100.959			
13,100.00	8,881.35	5,992.00	5,127.38	48.41	29.49	170.819	-69.59	656.65	5,509.50	5,455.15	54.35	101.377			
13,200.00	8,881.00	5,992.00	5,127.38	49.08	29.49	171.032	-69.59	656.65	5,582.01	5,527.20	54.82	101.833			
13,300.00	8,880.65	5,992.00	5,127.38	49.75	29.49	171.236	-69.59	656.65	5,655.36	5,600.09	55.27	102.326			
13,400.00	8,880.30	5,992.00	5,127.38	50.43	29.49	171.431	-69.59	656.65	5,729.52	5,673.81	55.71	102.852			

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 115H
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 115H	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 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	
13,500.00	8,879.95	6,006.96	5,127.06	51.11	29.81	171.423	-66.93	671.36	5,804.30	5,747.91	56.39	102.930		
13,600.00	8,879.60	6,009.07	5,127.01	51.80	29.85	171.578	-66.57	673.44	5,879.94	5,823.09	56.84	103.446		
13,700.00	8,879.25	6,024.00	5,126.50	52.50	30.17	171.568	-64.14	688.16	5,956.39	5,898.89	57.50	103.581		
13,800.00	8,878.90	6,024.00	5,126.50	53.20	30.17	171.739	-64.14	688.16	6,033.39	5,975.50	57.89	104.215		
13,900.00	8,878.55	6,024.00	5,126.50	53.90	30.17	171.904	-64.14	688.16	6,111.06	6,052.79	58.27	104.875		
14,000.00	8,878.20	6,024.00	5,126.50	54.61	30.17	172.061	-64.14	688.16	6,189.36	6,130.73	58.63	105.558		
14,100.00	8,877.86	6,024.00	5,126.50	55.33	30.17	172.213	-64.14	688.16	6,268.29	6,209.30	58.99	106.263		
14,200.00	8,877.51	6,024.00	5,126.50	56.04	30.17	172.358	-64.14	688.16	6,347.81	6,288.48	59.33	106.990		
14,300.00	8,877.16	6,024.00	5,126.50	56.77	30.17	172.498	-64.14	688.16	6,427.90	6,368.23	59.66	107.737		
14,400.00	8,876.81	6,024.00	5,126.50	57.49	30.17	172.633	-64.14	688.16	6,508.54	6,448.55	59.99	108.502		
14,500.00	8,876.46	6,024.00	5,126.50	58.22	30.17	172.763	-64.14	688.16	6,589.71	6,529.41	60.30	109.286		
14,600.00	8,876.11	6,151.00	5,121.44	58.96	32.90	171.570	-43.46	813.36	6,671.30	6,608.26	63.04	105.829		
14,700.00	8,875.76	6,151.00	5,121.44	59.70	32.90	171.715	-43.46	813.36	6,753.18	6,689.83	63.35	106.607		
14,800.00	8,875.41	6,151.00	5,121.44	60.44	32.90	171.854	-43.46	813.36	6,835.54	6,771.89	63.65	107.400		
14,900.00	8,875.06	6,151.00	5,121.44	61.18	32.90	171.988	-43.46	813.36	6,918.37	6,854.43	63.94	108.206		
15,000.00	8,874.71	6,164.84	5,121.01	61.93	33.21	171.984	-41.19	827.00	7,001.57	6,937.07	64.50	108.559		
15,100.00	8,874.36	6,167.57	5,120.93	62.68	33.27	172.086	-40.76	829.70	7,085.25	7,020.42	64.83	109.295		
15,200.00	8,874.02	6,182.00	5,120.54	63.43	33.58	172.074	-38.61	843.96	7,169.39	7,104.00	65.39	109.645		
15,300.00	8,873.67	6,182.00	5,120.54	64.19	33.58	172.197	-38.61	843.96	7,253.85	7,188.20	65.65	110.492		
15,400.00	8,873.32	6,182.00	5,120.54	64.95	33.58	172.315	-38.61	843.96	7,338.71	7,272.80	65.91	111.349		
15,500.00	8,872.97	6,182.00	5,120.54	65.71	33.58	172.430	-38.61	843.96	7,423.94	7,357.79	66.16	112.217		
15,600.00	8,872.62	6,182.00	5,120.54	66.48	33.58	172.541	-38.61	843.96	7,509.54	7,443.14	66.40	113.094		
15,700.00	8,872.27	6,295.52	5,120.07	67.24	36.09	171.664	-22.59	956.32	7,595.26	7,526.24	69.01	110.053		
15,800.00	8,871.92	6,308.00	5,120.27	68.01	36.37	171.677	-20.93	968.69	7,681.37	7,611.85	69.52	110.491		
15,900.00	8,871.57	6,308.00	5,120.27	68.79	36.37	171.794	-20.93	968.69	7,767.78	7,698.02	69.76	111.357		
16,000.00	8,871.22	6,308.00	5,120.27	69.56	36.37	171.908	-20.93	968.69	7,854.51	7,784.52	69.99	112.230		
16,100.00	8,870.87	6,308.00	5,120.27	70.34	36.37	172.019	-20.93	968.69	7,941.54	7,871.33	70.21	113.111		
16,200.00	8,870.53	6,308.00	5,120.27	71.11	36.37	172.127	-20.93	968.69	8,028.89	7,958.46	70.43	113.998		
16,300.00	8,870.18	6,308.00	5,120.27	71.90	36.37	172.231	-20.93	968.69	8,116.52	8,045.87	70.64	114.892		
16,400.00	8,869.83	6,308.00	5,120.27	72.68	36.37	172.333	-20.93	968.69	8,204.43	8,133.58	70.86	115.792		
16,500.00	8,869.48	6,308.00	5,120.27	73.46	36.37	172.432	-20.93	968.69	8,292.62	8,221.56	71.06	116.697		
16,600.00	8,869.13	6,308.00	5,120.27	74.25	36.37	172.529	-20.93	968.69	8,381.08	8,309.82	71.26	117.609		
16,700.00	8,868.78	6,308.00	5,120.27	75.04	36.37	172.623	-20.93	968.69	8,469.79	8,398.33	71.46	118.525		
16,800.00	8,868.43	6,308.00	5,120.27	75.83	36.37	172.715	-20.93	968.69	8,558.75	8,487.10	71.65	119.446		
16,900.00	8,868.08	6,308.00	5,120.27	76.62	36.37	172.804	-20.93	968.69	8,647.95	8,576.11	71.84	120.372		
17,000.00	8,867.73	6,308.00	5,120.27	77.41	36.37	172.891	-20.93	968.69	8,737.39	8,665.36	72.03	121.301		
17,100.00	8,867.38	6,322.37	5,120.40	78.21	36.69	172.873	-19.12	982.95	8,826.95	8,754.42	72.53	121.698		
17,200.00	8,867.03	6,323.75	5,120.40	79.00	36.72	172.947	-18.95	984.31	8,916.82	8,844.07	72.74	122.581		
17,300.00	8,866.69	6,338.00	5,120.41	79.80	37.04	172.929	-17.29	998.47	9,006.97	8,933.73	73.24	122.984		
17,400.00	8,866.34	6,338.00	5,120.41	80.60	37.04	173.011	-17.29	998.47	9,097.24	9,023.82	73.41	123.920		
17,500.00	8,865.99	6,338.00	5,120.41	81.40	37.04	173.090	-17.29	998.47	9,187.70	9,114.12	73.58	124.859		
17,600.00	8,865.64	6,338.00	5,120.41	82.20	37.04	173.167	-17.29	998.47	9,278.36	9,204.61	73.75	125.801		
17,700.00	8,865.29	6,338.00	5,120.41	83.01	37.04	173.243	-17.29	998.47	9,369.22	9,295.30	73.92	126.746		
17,800.00	8,864.94	6,338.00	5,120.41	83.81	37.04	173.317	-17.29	998.47	9,460.25	9,386.17	74.09	127.693		
17,900.00	8,864.59	6,338.00	5,120.41	84.62	37.04	173.390	-17.29	998.47	9,551.47	9,477.22	74.25	128.642		
18,000.00	8,864.24	6,338.00	5,120.41	85.42	37.04	173.460	-17.29	998.47	9,642.86	9,568.45	74.41	129.594		
18,100.00	8,863.89	6,338.00	5,120.41	86.23	37.04	173.529	-17.29	998.47	9,734.42	9,659.85	74.57	130.547		
18,200.00	8,863.54	6,338.00	5,120.41	87.04	37.04	173.597	-17.29	998.47	9,826.14	9,751.42	74.72	131.503		
18,300.00	8,863.20	6,338.00	5,120.41	87.85	37.04	173.663	-17.29	998.47	9,918.03	9,843.15	74.88	132.460		

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 115H
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 115H	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										Offset Site Error: 0.00 usft				
Reference 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	
0.00	0.00	0.00	0.50	0.00	0.00	-114.770	-376.99	-817.00	899.78					
100.00	100.00	97.98	98.48	0.26	0.13	-114.774	-377.08	-817.05	899.87	899.47	0.39	2,294.500		
200.00	200.00	197.67	198.17	0.62	0.47	-114.783	-377.29	-817.16	900.05	898.96	1.10	821.751		
300.00	300.00	293.70	294.20	0.98	0.81	-114.791	-377.57	-817.47	900.47	898.68	1.79	502.984		
400.00	400.00	390.22	390.72	1.34	1.15	-114.799	-378.02	-818.15	901.31	898.82	2.49	362.380		
500.00	500.00	491.91	492.40	1.70	1.51	-114.810	-378.58	-818.97	902.28	899.08	3.20	281.775		
600.00	600.00	595.42	595.91	2.06	1.87	-114.819	-379.00	-819.53	902.93	899.01	3.92	230.137		
700.00	700.00	696.69	697.17	2.41	2.22	-114.831	-379.34	-819.79	903.31	898.67	4.64	194.820		
800.00	800.00	796.38	796.87	2.77	2.57	-114.840	-379.61	-820.03	903.64	898.29	5.34	169.084		
900.00	900.00	896.87	897.35	3.13	2.92	-114.828	-379.57	-820.40	903.96	897.90	6.05	149.304		
1,000.00	1,000.00	995.76	996.25	3.49	3.27	-114.795	-379.24	-820.94	904.31	897.55	6.76	133.800		
1,100.00	1,100.00	1,093.29	1,093.77	3.85	3.61	-114.760	-378.96	-821.65	904.86	897.40	7.46	121.321		
1,200.00	1,200.00	1,199.41	1,199.89	4.21	3.85	-114.717	-378.68	-822.66	905.63	897.57	8.06	112.357		
1,300.00	1,300.00	1,309.16	1,309.63	4.57	3.96	-114.667	-377.63	-822.30	904.92	896.39	8.53	106.135		
1,400.00	1,400.00	1,412.35	1,412.80	4.92	4.02	-114.607	-376.23	-821.50	903.65	894.71	8.94	101.079		
1,500.00	1,500.00	1,511.14	1,511.58	5.28	4.10	-114.550	-374.83	-820.58	902.21	892.82	9.39	96.132		
1,600.00	1,599.99	1,609.71	1,610.14	5.62	4.22	-114.428	-373.37	-820.03	900.78	890.94	9.84	91.545		
1,700.00	1,699.96	1,709.98	1,710.40	5.95	4.36	-114.196	-371.80	-819.45	898.71	888.40	10.31	87.191		
1,800.00	1,799.86	1,812.57	1,812.97	6.28	4.53	-113.848	-370.05	-818.83	895.98	885.18	10.81	82.914		
1,900.00	1,899.68	1,912.31	1,912.69	6.61	4.72	-113.421	-368.60	-817.80	892.43	881.11	11.32	78.812		
2,000.00	1,999.37	2,011.26	2,011.63	6.94	4.92	-112.975	-368.50	-816.33	888.47	876.61	11.86	74.928		
2,100.00	2,098.90	2,115.26	2,115.61	7.28	5.14	-112.447	-368.71	-814.44	883.83	871.41	12.42	71.163		
2,100.18	2,099.08	2,115.45	2,115.80	7.28	5.14	-112.446	-368.71	-814.43	883.82	871.40	12.42	71.157		
2,200.00	2,198.36	2,216.13	2,216.44	7.62	5.38	-111.920	-369.67	-811.92	878.65	865.65	12.99	67.627		
2,300.00	2,297.81	2,320.09	2,320.33	7.96	5.63	-111.475	-371.68	-808.40	873.08	859.49	13.59	64.259		
2,400.00	2,397.26	2,409.79	2,409.95	8.30	5.86	-111.028	-373.97	-805.40	867.84	853.68	14.16	61.283		
2,500.00	2,496.71	2,491.00	2,491.08	8.65	6.07	-110.593	-377.21	-804.28	864.88	850.16	14.72	58.762		
2,600.00	2,596.16	2,586.84	2,586.86	9.00	6.32	-110.132	-380.59	-804.48	863.36	848.04	15.32	56.363		
2,700.00	2,695.62	2,716.11	2,716.10	9.35	6.68	-109.465	-380.24	-803.37	859.57	843.55	16.02	53.640		
2,800.00	2,795.07	2,816.16	2,816.11	9.70	6.97	-108.681	-377.79	-801.26	854.10	837.43	16.67	51.249		
2,900.00	2,894.52	2,898.08	2,897.99	10.05	7.21	-107.868	-375.51	-800.58	849.94	832.68	17.26	49.237		
3,000.00	2,993.97	2,975.52	2,975.38	10.41	7.44	-106.999	-373.17	-802.16	848.55	830.71	17.84	47.565		
3,010.00	3,003.92	2,984.40	2,984.25	10.44	7.47	-106.906	-372.89	-802.46	848.54	830.64	17.90	47.402	CC, ES	
3,100.00	3,093.42	3,064.97	3,064.70	10.76	7.70	-106.039	-370.06	-805.72	849.12	830.66	18.45	46.017		
3,200.00	3,192.87	3,159.27	3,158.82	11.12	7.98	-105.041	-366.61	-810.30	850.74	831.65	19.09	44.576		
3,300.00	3,292.33	3,264.52	3,263.88	11.48	8.30	-104.010	-362.74	-815.42	852.63	832.87	19.76	43.140		
3,400.00	3,391.78	3,361.78	3,360.98	11.83	8.60	-103.022	-359.24	-819.63	854.30	833.88	20.42	41.836		
3,500.00	3,491.23	3,459.24	3,458.27	12.19	8.91	-102.017	-355.47	-824.08	856.38	835.30	21.08	40.623		
3,600.00	3,590.68	3,536.65	3,535.30	12.55	9.15	-100.891	-349.83	-828.80	859.71	838.05	21.67	39.681		
3,700.00	3,690.13	3,602.11	3,599.57	12.91	9.37	-99.461	-339.89	-836.14	867.04	844.86	22.18	39.090		
3,800.00	3,789.59	3,654.00	3,649.71	13.27	9.55	-97.988	-329.15	-843.99	878.81	856.22	22.58	38.915	SF	
3,900.00	3,889.04	3,708.12	3,701.01	13.63	9.75	-96.344	-315.84	-854.91	896.17	873.22	22.95	39.050		
4,000.00	3,988.49	3,755.90	3,745.24	13.99	9.93	-94.728	-302.54	-867.12	919.61	896.39	23.22	39.606		
4,100.00	4,087.94	3,810.00	3,794.10	14.35	10.15	-92.893	-285.37	-882.75	948.06	924.56	23.50	40.343		
4,200.00	4,187.39	3,858.26	3,836.47	14.72	10.37	-91.110	-268.05	-898.00	981.29	957.60	23.69	41.416		
4,300.00	4,286.84	3,903.00	3,874.43	15.08	10.59	-89.381	-250.65	-914.06	1,020.19	996.37	23.82	42.832		
4,400.00	4,386.30	3,934.00	3,899.96	15.44	10.76	-87.983	-237.85	-926.09	1,064.07	1,040.31	23.76	44.786		
4,500.00	4,485.75	3,975.88	3,933.58	15.80	11.00	-86.332	-219.80	-943.35	1,112.53	1,088.72	23.81	46.726		
4,600.00	4,585.20	4,018.79	3,966.99	16.17	11.27	-84.671	-200.31	-961.92	1,165.02	1,141.15	23.87	48.807		
4,700.00	4,684.65	4,059.00	3,997.38	16.53	11.55	-83.096	-181.12	-979.96	1,221.08	1,197.18	23.90	51.094		
4,800.00	4,784.10	4,091.00	4,020.67	16.89	11.78	-81.736	-165.05	-994.89	1,280.76	1,256.93	23.83	53.748		

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 115H
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 115H	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	
4,900.00	4,883.56	4,122.00	4,042.59	17.26	12.03	-80.419	-148.90	-1,009.71	1,343.60	1,319.84	23.76	56.557		
5,000.00	4,983.01	4,153.00	4,063.94	17.62	12.29	-79.131	-132.28	-1,024.84	1,409.24	1,385.54	23.70	59.461		
5,100.00	5,082.46	4,170.16	4,075.40	17.99	12.44	-78.190	-122.83	-1,033.44	1,477.70	1,454.22	23.48	62.934		
5,200.00	5,181.91	4,184.00	4,084.36	18.35	12.56	-77.340	-115.06	-1,040.55	1,548.92	1,525.68	23.24	66.658		
5,300.00	5,281.36	4,214.00	4,103.35	18.72	12.85	-76.145	-97.94	-1,056.26	1,622.22	1,598.99	23.23	69.828		
5,400.00	5,380.82	4,245.00	4,122.53	19.08	13.15	-74.970	-80.05	-1,072.78	1,697.30	1,674.03	23.26	72.961		
5,500.00	5,480.27	4,261.93	4,132.71	19.45	13.33	-74.124	-70.16	-1,082.01	1,774.24	1,751.10	23.14	76.686		
5,600.00	5,579.72	4,276.00	4,140.93	19.81	13.48	-73.356	-61.86	-1,089.84	1,852.96	1,829.97	23.00	80.572		
5,700.00	5,679.17	4,276.00	4,140.93	20.18	13.48	-72.878	-61.86	-1,089.84	1,933.48	1,910.77	22.71	85.139		
5,800.00	5,778.62	4,307.00	4,158.06	20.54	13.83	-71.809	-43.18	-1,107.69	2,015.26	1,992.43	22.83	88.258		
5,900.00	5,878.07	4,307.00	4,158.06	20.91	13.83	-71.349	-43.18	-1,107.69	2,098.37	2,075.77	22.60	92.850		
6,000.00	5,977.53	4,319.20	4,164.43	21.27	13.97	-70.669	-35.70	-1,114.92	2,182.75	2,160.21	22.54	96.839		
6,100.00	6,076.98	4,338.00	4,173.88	21.64	14.19	-69.888	-24.06	-1,126.27	2,268.26	2,245.68	22.58	100.460		
6,200.00	6,176.43	4,338.00	4,173.88	22.01	14.19	-69.447	-24.06	-1,126.27	2,354.60	2,332.18	22.42	105.020		
6,300.00	6,275.88	4,357.22	4,183.22	22.37	14.43	-68.691	-12.07	-1,138.02	2,441.79	2,419.29	22.50	108.501		
6,400.00	6,375.33	4,369.00	4,188.85	22.74	14.58	-68.075	-4.68	-1,145.28	2,529.68	2,507.16	22.52	112.324		
6,425.72	6,400.92	4,369.00	4,188.85	22.83	14.58	-67.966	-4.68	-1,145.28	2,552.42	2,529.92	22.50	113.466		
6,500.00	6,474.83	4,386.89	4,197.23	23.10	14.81	-67.396	15.60	-1,156.35	2,618.14	2,595.52	22.62	115.731		
6,600.00	6,574.49	4,401.00	4,203.69	23.47	14.99	-66.857	16.56	-1,165.12	2,706.97	2,684.28	22.69	119.285		
6,700.00	6,674.27	4,431.00	4,217.21	23.83	15.40	-66.161	34.81	-1,183.74	2,796.00	2,773.05	22.95	121.847		
6,800.00	6,774.15	4,456.15	4,228.41	24.19	15.74	-65.619	51.08	-1,199.31	2,885.05	2,861.89	23.16	124.586		
6,900.00	6,874.11	4,488.81	4,242.85	24.55	16.20	-65.057	72.23	-1,219.59	2,974.07	2,950.61	23.46	126.795		
7,000.00	6,974.10	4,519.87	4,256.49	24.90	16.65	-64.602	92.33	-1,238.93	3,062.95	3,039.21	23.75	128.992		
7,025.90	7,000.00	4,525.00	4,258.73	24.99	16.72	-64.533	95.66	-1,242.13	3,085.96	3,062.17	23.79	129.723		
7,100.00	7,074.10	4,551.67	4,270.34	25.23	17.12	-64.196	112.98	-1,258.77	3,151.81	3,127.77	24.05	131.074		
7,200.00	7,174.10	4,585.00	4,284.74	25.56	17.61	-63.789	134.64	-1,279.60	3,240.88	3,216.51	24.37	132.989		
7,300.00	7,274.10	4,617.00	4,298.44	25.89	18.10	-63.412	155.48	-1,299.66	3,330.19	3,305.50	24.69	134.876		
7,400.00	7,374.10	4,646.00	4,310.77	26.22	18.55	-63.082	174.37	-1,317.88	3,419.69	3,394.70	24.99	136.841		
7,500.00	7,474.10	4,704.47	4,335.63	26.55	19.48	-62.451	212.44	-1,354.63	3,509.29	3,483.68	25.61	137.029		
7,600.00	7,574.10	4,762.60	4,360.98	26.88	20.41	-61.878	249.80	-1,391.25	3,598.36	3,572.13	26.23	137.178		
7,700.00	7,674.10	4,807.02	4,380.40	27.21	21.14	-61.469	278.22	-1,419.32	3,687.51	3,660.79	26.72	138.012		
7,800.00	7,774.10	4,828.80	4,389.80	27.55	21.50	-61.277	292.15	-1,433.17	3,776.97	3,750.00	26.97	140.021		
7,900.00	7,874.10	4,867.00	4,406.04	27.88	22.14	-60.952	316.62	-1,457.61	3,866.79	3,839.38	27.41	141.088		
8,000.00	7,974.10	4,888.73	4,415.21	28.21	22.51	-60.773	330.55	-1,471.55	3,956.70	3,929.02	27.68	142.945		
8,100.00	8,074.10	4,947.24	4,440.31	28.55	23.50	-60.308	367.96	-1,508.88	4,046.33	4,017.99	28.34	142.782		
8,200.00	8,174.10	5,001.19	4,463.54	28.88	24.43	-59.905	402.40	-1,543.29	4,135.96	4,107.00	28.96	142.822		
8,300.00	8,274.10	5,030.03	4,475.90	29.22	24.93	-59.699	420.80	-1,561.76	4,225.76	4,196.43	29.32	144.115		
8,347.73	8,321.83	5,094.10	4,503.57	29.38	26.05	-59.260	461.63	-1,602.63	4,268.51	4,238.49	30.02	142.190		
8,350.00	8,324.10	5,095.09	4,504.00	29.39	26.06	-59.253	462.26	-1,603.26	4,270.53	4,240.50	30.03	142.202		
8,400.00	8,374.02	5,118.37	4,514.15	29.55	26.47	-59.159	477.09	-1,618.06	4,314.65	4,284.35	30.30	142.384		
8,450.00	8,423.55	5,210.55	4,555.03	29.72	28.08	-58.718	536.22	-1,675.76	4,357.03	4,325.74	31.29	139.260		
8,500.00	8,472.31	5,244.88	4,570.38	29.87	28.68	-58.750	558.63	-1,696.76	4,397.65	4,365.98	31.66	138.896		
8,550.00	8,519.92	5,279.34	4,585.80	30.03	29.28	-58.878	581.19	-1,717.74	4,436.21	4,404.17	32.04	138.470		
8,600.00	8,566.02	5,316.27	4,602.36	30.18	29.93	-59.083	605.35	-1,740.23	4,472.43	4,440.00	32.43	137.894		
8,650.00	8,610.27	5,334.00	4,610.32	30.32	30.24	-59.511	616.94	-1,751.04	4,506.11	4,473.48	32.63	138.114		
8,700.00	8,652.32	5,369.73	4,626.30	30.45	30.87	-59.898	640.31	-1,772.84	4,537.01	4,504.00	33.01	137.457		
8,750.00	8,691.85	5,393.86	4,637.01	30.58	31.30	-60.447	656.12	-1,787.59	4,565.04	4,531.78	33.26	137.242		
8,800.00	8,728.57	5,428.00	4,652.05	30.70	31.90	-60.997	678.53	-1,808.50	4,590.01	4,556.39	33.62	136.517		
8,850.00	8,762.19	5,428.00	4,652.05	30.81	31.90	-61.880	678.53	-1,808.50	4,611.77	4,578.15	33.62	137.161		
8,900.00	8,792.47	5,469.35	4,670.10	30.91	32.64	-62.505	705.70	-1,833.90	4,630.11	4,596.05	34.06	135.925		

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 115H
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 115H	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													Offset Site Error:
Reference Offset													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
8,950.00	8,819.16	5,494.91	4,681.17	31.01	33.10	-63.312	722.51	-1,849.66	4,645.03	4,610.69	34.34	135.269	
9,000.00	8,842.06	5,522.00	4,692.83	31.10	33.59	-64.158	740.33	-1,866.40	4,656.42	4,621.79	34.64	134.441	
9,050.00	8,861.01	5,605.77	4,729.14	31.18	35.10	-64.538	795.49	-1,917.95	4,663.99	4,628.44	35.55	131.201	
9,100.00	8,875.85	5,633.00	4,741.05	31.25	35.59	-65.436	813.43	-1,934.61	4,667.63	4,631.77	35.86	130.150	
9,150.00	8,886.47	5,670.70	4,757.45	31.32	36.27	-66.255	838.43	-1,957.58	4,667.61	4,631.31	36.30	128.569	
9,200.00	8,892.80	5,704.63	4,772.13	31.38	36.88	-67.111	861.22	-1,977.98	4,663.92	4,627.21	36.71	127.035	
9,249.73	8,894.78	5,777.00	4,803.52	31.43	38.18	-67.555	910.24	-2,020.98	4,656.54	4,618.98	37.56	123.992	
9,300.00	8,894.61	5,791.24	4,809.75	31.48	38.44	-68.606	919.86	-2,029.43	4,647.29	4,609.51	37.78	123.018	
9,400.00	8,894.26	5,812.00	4,818.63	31.60	38.81	-70.801	934.08	-2,041.68	4,630.23	4,592.06	38.17	121.307	
9,500.00	8,893.91	5,827.22	4,824.94	31.75	39.09	-73.094	944.71	-2,050.56	4,615.01	4,576.46	38.55	119.710	
9,600.00	8,893.56	5,844.00	4,831.61	31.92	39.39	-75.396	956.71	-2,060.20	4,601.68	4,562.68	39.00	117.998	
9,700.00	8,893.21	5,844.00	4,831.61	32.11	39.39	-77.985	956.71	-2,060.20	4,590.35	4,551.04	39.31	116.786	
9,800.00	8,892.86	5,875.00	4,843.04	32.32	39.96	-80.096	979.68	-2,077.59	4,580.82	4,540.81	40.01	114.504	
9,900.00	8,892.51	5,875.00	4,843.04	32.56	39.96	-82.750	979.68	-2,077.59	4,573.30	4,532.90	40.40	113.187	
10,000.00	8,892.17	5,906.00	4,853.14	32.82	40.52	-84.831	1,003.66	-2,094.43	4,567.78	4,526.59	41.19	110.888	
10,100.00	8,891.82	5,906.00	4,853.14	33.09	40.52	-87.515	1,003.66	-2,094.43	4,564.10	4,522.43	41.68	109.515	
10,200.00	8,891.47	5,938.00	4,862.42	33.39	41.10	-89.525	1,029.19	-2,111.35	4,562.34	4,519.79	42.55	107.213	
10,243.95	8,891.31	5,938.00	4,862.42	33.53	41.10	-90.702	1,029.19	-2,111.35	4,562.13	4,519.34	42.80	106.600	
10,300.00	8,891.12	5,970.00	4,870.93	33.71	41.68	-91.494	1,055.22	-2,127.90	4,562.37	4,518.90	43.47	104.961	
10,400.00	8,890.77	6,015.69	4,882.18	34.04	42.50	-93.105	1,093.29	-2,150.52	4,563.83	4,519.27	44.56	102.417	
10,500.00	8,890.42	6,287.00	4,935.18	34.40	46.96	-89.332	1,338.04	-2,252.98	4,565.62	4,517.78	47.84	95.426	
10,569.11	8,890.18	6,299.60	4,937.22	34.66	47.15	-90.768	1,349.96	-2,256.54	4,565.26	4,516.85	48.41	94.298	
10,600.00	8,890.07	6,305.80	4,938.19	34.77	47.25	-91.395	1,355.81	-2,258.33	4,565.38	4,516.70	48.67	93.794	
10,700.00	8,889.72	6,460.74	4,963.25	35.16	49.67	-90.250	1,501.29	-2,305.31	4,566.60	4,515.83	50.77	89.941	
10,772.83	8,889.47	6,521.89	4,974.75	35.46	50.64	-90.640	1,558.02	-2,325.01	4,566.46	4,514.59	51.88	88.027	
10,800.00	8,889.37	6,541.00	4,978.21	35.57	50.95	-90.866	1,575.83	-2,331.02	4,566.50	4,514.25	52.25	87.393	
10,900.00	8,889.02	6,572.00	4,983.59	35.99	51.45	-92.581	1,604.79	-2,340.70	4,567.44	4,514.15	53.29	85.711	
11,000.00	8,888.68	6,604.00	4,988.83	36.43	51.96	-94.255	1,634.71	-2,350.76	4,569.77	4,515.41	54.36	84.069	
11,100.00	8,888.33	6,636.00	4,992.97	36.89	52.47	-95.902	1,664.98	-2,360.26	4,573.83	4,518.40	55.44	82.508	
11,200.00	8,887.98	6,763.00	5,006.50	37.36	54.44	-95.312	1,786.64	-2,394.04	4,578.36	4,521.02	57.35	79.838	
11,300.00	8,887.63	6,847.83	5,014.86	37.84	55.75	-95.694	1,868.32	-2,415.39	4,582.95	4,524.05	58.90	77.812	
11,400.00	8,887.28	7,365.00	5,059.39	38.34	63.10	-86.543	2,363.09	-2,487.93	4,580.18	4,516.73	63.44	72.196	
11,500.00	8,886.93	7,365.00	5,059.39	38.85	63.10	-88.821	2,363.09	-2,487.93	4,577.36	4,513.04	64.33	71.159	
11,578.75	8,886.66	7,365.00	5,059.39	39.26	63.10	-90.619	2,363.09	-2,487.93	4,576.69	4,511.66	65.03	70.377	
11,600.00	8,886.58	7,365.00	5,059.39	39.37	63.10	-91.104	2,363.09	-2,487.93	4,576.74	4,511.52	65.22	70.173	
11,700.00	8,886.23	7,365.00	5,059.39	39.90	63.10	-93.384	2,363.09	-2,487.93	4,578.29	4,512.17	66.12	69.239	
11,800.00	8,885.88	7,365.00	5,059.39	40.45	63.10	-95.654	2,363.09	-2,487.93	4,582.03	4,515.00	67.03	68.359	
11,900.00	8,885.53	7,415.67	5,059.44	41.01	63.79	-96.762	2,413.43	-2,493.69	4,587.51	4,519.24	68.27	67.198	
12,000.00	8,885.19	7,460.00	5,058.92	41.58	64.41	-98.002	2,457.50	-2,498.48	4,593.95	4,524.48	69.47	66.132	
12,100.00	8,884.84	7,642.93	5,057.64	42.15	67.00	-96.122	2,639.17	-2,519.77	4,600.57	4,528.96	71.60	64.250	
12,200.00	8,884.49	7,700.02	5,057.12	42.74	67.81	-97.070	2,695.96	-2,525.57	4,606.37	4,533.47	72.91	63.181	
12,300.00	8,884.14	7,841.00	5,052.62	43.34	69.76	-96.146	2,836.41	-2,536.30	4,612.86	4,538.16	74.69	61.756	
12,400.00	8,883.79	7,990.43	5,046.77	43.94	71.78	-95.042	2,985.57	-2,542.78	4,618.04	4,541.57	76.47	60.390	
12,500.00	8,883.44	8,126.00	5,044.45	44.56	73.65	-94.245	3,120.93	-2,549.60	4,621.57	4,543.35	78.22	59.087	
12,600.00	8,883.09	8,220.71	5,042.92	45.18	74.97	-94.359	3,215.50	-2,554.52	4,625.21	4,545.47	79.74	58.004	
12,700.00	8,882.74	8,295.31	5,043.14	45.81	76.06	-94.916	3,289.83	-2,560.62	4,628.97	4,547.77	81.20	57.008	
12,800.00	8,882.39	8,431.74	5,044.34	46.45	78.06	-94.105	3,425.66	-2,573.41	4,632.95	4,549.85	83.10	55.754	
12,900.00	8,882.04	8,836.83	5,036.83	47.10	83.57	-87.370	3,830.14	-2,570.96	4,635.00	4,548.94	86.06	53.856	
13,000.00	8,881.69	8,887.00	5,036.69	47.75	84.24	-88.473	3,880.26	-2,568.74	4,632.28	4,544.96	87.32	53.050	
13,100.00	8,881.35	8,949.43	5,036.27	48.41	85.08	-89.306	3,942.65	-2,566.65	4,630.47	4,541.83	88.64	52.241	
13,191.35	8,881.03	8,982.00	5,036.03	49.02	85.53	-90.612	3,975.22	-2,566.09	4,629.79	4,540.05	89.74	51.593	

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 115H
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 115H	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	
13,200.00	8,881.00	8,982.00	5,036.03	49.08	85.53	-90.804	3,975.22	-2,566.09	4,629.79	4,539.97	89.83	51.542		
13,300.00	8,880.65	9,025.82	5,035.40	49.75	86.14	-92.052	4,019.03	-2,565.92	4,630.41	4,539.33	91.08	50.841		
13,400.00	8,880.30	9,074.11	5,034.08	50.43	86.83	-93.199	4,067.30	-2,566.41	4,632.50	4,540.15	92.35	50.163		
13,500.00	8,879.95	9,112.00	5,032.98	51.11	87.37	-94.574	4,105.17	-2,566.88	4,635.43	4,541.87	93.57	49.542		
13,600.00	8,879.60	9,112.00	5,032.98	51.80	87.37	-96.776	4,105.17	-2,566.88	4,640.36	4,545.80	94.56	49.073		
13,700.00	8,879.25	9,112.00	5,032.98	52.50	87.37	-98.959	4,105.17	-2,566.88	4,647.44	4,551.91	95.53	48.648		
13,800.00	8,878.90	9,112.00	5,032.98	53.20	87.37	-101.117	4,105.17	-2,566.88	4,656.66	4,560.18	96.48	48.267		
13,900.00	8,878.55	9,112.00	5,032.98	53.90	87.37	-103.244	4,105.17	-2,566.88	4,668.00	4,570.60	97.40	47.928		
14,000.00	8,878.20	9,112.00	5,032.98	54.61	87.37	-105.336	4,105.17	-2,566.88	4,681.45	4,583.16	98.29	47.630		
14,100.00	8,877.86	9,112.00	5,032.98	55.33	87.37	-107.387	4,105.17	-2,566.88	4,696.98	4,597.83	99.15	47.373		
14,200.00	8,877.51	9,112.00	5,032.98	56.04	87.37	-109.395	4,105.17	-2,566.88	4,714.59	4,614.61	99.98	47.155		
14,300.00	8,877.16	9,112.00	5,032.98	56.77	87.37	-111.355	4,105.17	-2,566.88	4,734.25	4,633.47	100.78	46.976		
14,400.00	8,876.81	9,112.00	5,032.98	57.49	87.37	-113.264	4,105.17	-2,566.88	4,755.93	4,654.38	101.55	46.834		
14,500.00	8,876.46	9,112.00	5,032.98	58.22	87.37	-115.122	4,105.17	-2,566.88	4,779.60	4,677.32	102.28	46.729		
14,600.00	8,876.11	9,112.00	5,032.98	58.96	87.37	-116.925	4,105.17	-2,566.88	4,805.24	4,702.26	102.98	46.660		
14,700.00	8,875.76	9,112.00	5,032.98	59.70	87.37	-118.673	4,105.17	-2,566.88	4,832.81	4,729.16	103.65	46.625		
14,800.00	8,875.41	9,112.00	5,032.98	60.44	87.37	-120.366	4,105.17	-2,566.88	4,862.29	4,758.00	104.29	46.624		
14,900.00	8,875.06	9,112.00	5,032.98	61.18	87.37	-122.002	4,105.17	-2,566.88	4,893.62	4,788.74	104.89	46.656		
15,000.00	8,874.71	9,112.00	5,032.98	61.93	87.37	-123.583	4,105.17	-2,566.88	4,926.79	4,821.34	105.46	46.719		
15,100.00	8,874.36	9,112.00	5,032.98	62.68	87.37	-125.109	4,105.17	-2,566.88	4,961.76	4,855.76	105.99	46.813		
15,200.00	8,874.02	9,112.00	5,032.98	63.43	87.37	-126.580	4,105.17	-2,566.88	4,998.48	4,891.98	106.50	46.936		
15,300.00	8,873.67	9,112.00	5,032.98	64.19	87.37	-127.997	4,105.17	-2,566.88	5,036.91	4,929.95	106.97	47.088		
15,400.00	8,873.32	9,112.00	5,032.98	64.95	87.37	-129.363	4,105.17	-2,566.88	5,077.03	4,969.62	107.41	47.269		
15,500.00	8,872.97	9,112.00	5,032.98	65.71	87.37	-130.678	4,105.17	-2,566.88	5,118.79	5,010.97	107.82	47.476		
15,600.00	8,872.62	9,112.00	5,032.98	66.48	87.37	-131.943	4,105.17	-2,566.88	5,162.14	5,053.94	108.20	47.709		
15,700.00	8,872.27	9,112.00	5,032.98	67.24	87.37	-133.161	4,105.17	-2,566.88	5,207.06	5,098.50	108.55	47.968		
15,800.00	8,871.92	9,112.00	5,032.98	68.01	87.37	-134.332	4,105.17	-2,566.88	5,253.49	5,144.61	108.88	48.251		
15,900.00	8,871.57	9,112.00	5,032.98	68.79	87.37	-135.459	4,105.17	-2,566.88	5,301.41	5,192.23	109.18	48.557		
16,000.00	8,871.22	9,112.00	5,032.98	69.56	87.37	-136.543	4,105.17	-2,566.88	5,350.76	5,241.31	109.45	48.886		
16,100.00	8,870.87	9,112.00	5,032.98	70.34	87.37	-137.586	4,105.17	-2,566.88	5,401.52	5,291.81	109.70	49.238		
16,200.00	8,870.53	9,112.00	5,032.98	71.11	87.37	-138.589	4,105.17	-2,566.88	5,453.63	5,343.71	109.93	49.610		
16,300.00	8,870.18	9,112.00	5,032.98	71.90	87.37	-139.554	4,105.17	-2,566.88	5,507.07	5,396.94	110.13	50.004		
16,400.00	8,869.83	9,112.00	5,032.98	72.68	87.37	-140.484	4,105.17	-2,566.88	5,561.80	5,451.48	110.32	50.417		
16,500.00	8,869.48	9,112.00	5,032.98	73.46	87.37	-141.378	4,105.17	-2,566.88	5,617.77	5,507.29	110.48	50.849		
16,600.00	8,869.13	9,112.00	5,032.98	74.25	87.37	-142.239	4,105.17	-2,566.88	5,674.95	5,564.33	110.62	51.300		
16,700.00	8,868.78	9,112.00	5,032.98	75.04	87.37	-143.068	4,105.17	-2,566.88	5,733.31	5,622.56	110.75	51.768		
16,800.00	8,868.43	9,112.00	5,032.98	75.83	87.37	-143.867	4,105.17	-2,566.88	5,792.80	5,681.94	110.86	52.254		
16,900.00	8,868.08	9,112.00	5,032.98	76.62	87.37	-144.637	4,105.17	-2,566.88	5,853.40	5,742.45	110.95	52.757		
17,000.00	8,867.73	9,112.00	5,032.98	77.41	87.37	-145.379	4,105.17	-2,566.88	5,915.07	5,804.04	111.03	53.275		
17,100.00	8,867.38	9,112.00	5,032.98	78.21	87.37	-146.094	4,105.17	-2,566.88	5,977.77	5,866.68	111.09	53.809		
17,200.00	8,867.03	9,112.00	5,032.98	79.00	87.37	-146.784	4,105.17	-2,566.88	6,041.48	5,930.34	111.14	54.358		
17,300.00	8,866.69	9,112.00	5,032.98	79.80	87.37	-147.450	4,105.17	-2,566.88	6,106.16	5,994.98	111.18	54.922		
17,400.00	8,866.34	9,112.00	5,032.98	80.60	87.37	-148.093	4,105.17	-2,566.88	6,171.79	6,060.58	111.21	55.499		
17,500.00	8,865.99	9,112.00	5,032.98	81.40	87.37	-148.714	4,105.17	-2,566.88	6,238.33	6,127.11	111.22	56.090		
17,600.00	8,865.64	9,112.00	5,032.98	82.20	87.37	-149.313	4,105.17	-2,566.88	6,305.75	6,194.52	111.22	56.694		
17,700.00	8,865.29	9,112.00	5,032.98	83.01	87.37	-149.893	4,105.17	-2,566.88	6,374.02	6,262.80	111.22	57.310		
17,800.00	8,864.94	9,112.00	5,032.98	83.81	87.37	-150.453	4,105.17	-2,566.88	6,443.13	6,331.92	111.21	57.938		
17,900.00	8,864.59	9,112.00	5,032.98	84.62	87.37	-150.994	4,105.17	-2,566.88	6,513.04	6,401.85	111.19	58.578		
18,000.00	8,864.24	9,112.00	5,032.98	85.42	87.37	-151.518	4,105.17	-2,566.88	6,583.72	6,472.56	111.16	59.229		
18,100.00	8,863.89	9,112.00	5,032.98	86.23	87.37	-152.026	4,105.17	-2,566.88	6,655.16	6,544.04	111.12	59.891		

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 115H
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 115H	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
Survey Program: 100-GYRO-NS, 1245-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	
18,200.00	8,863.54	9,112.00	5,032.98	87.04	87.37	-152.517	4,105.17	-2,566.88	6,727.32	6,616.24	111.08	60.564		
18,300.00	8,863.20	9,112.00	5,032.98	87.85	87.37	-152.992	4,105.17	-2,566.88	6,800.19	6,689.16	111.03	61.246		
18,400.00	8,862.85	9,112.00	5,032.98	88.66	87.37	-153.453	4,105.17	-2,566.88	6,873.74	6,762.76	110.98	61.938		
18,500.00	8,862.50	9,112.00	5,032.98	89.47	87.37	-153.899	4,105.17	-2,566.88	6,947.95	6,837.03	110.92	62.640		
18,600.00	8,862.15	9,112.00	5,032.98	90.29	87.37	-154.332	4,105.17	-2,566.88	7,022.81	6,911.95	110.86	63.350		
18,700.00	8,861.80	9,112.00	5,032.98	91.10	87.37	-154.752	4,105.17	-2,566.88	7,098.28	6,987.49	110.79	64.069		
18,800.00	8,861.45	9,112.00	5,032.98	91.92	87.37	-155.160	4,105.17	-2,566.88	7,174.35	7,063.63	110.72	64.796		
18,900.00	8,861.10	9,112.00	5,032.98	92.74	87.37	-155.555	4,105.17	-2,566.88	7,251.00	7,140.35	110.65	65.532		
19,000.00	8,860.75	9,112.00	5,032.98	93.55	87.37	-155.939	4,105.17	-2,566.88	7,328.22	7,217.64	110.57	66.275		
19,100.00	8,860.40	9,112.00	5,032.98	94.37	87.37	-156.312	4,105.17	-2,566.88	7,405.98	7,295.48	110.50	67.025		
19,175.37	8,860.14	9,112.00	5,032.98	94.99	87.37	-156.586	4,105.17	-2,566.88	7,464.93	7,354.50	110.43	67.596		

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 115H
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 115H	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 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	1,164.34	1,164.34				
100.00	100.00	102.00	100.00	0.26	0.27	90.000	0.00	1,164.34	1,164.34	1,163.81	0.53	2,179.909	
200.00	200.00	202.00	200.00	0.62	0.63	90.000	0.00	1,164.34	1,164.34	1,163.09	1.25	930.678	
300.00	300.00	302.00	300.00	0.98	0.99	90.000	0.00	1,164.34	1,164.34	1,162.37	1.97	591.633	
400.00	400.00	402.00	400.00	1.34	1.35	90.000	0.00	1,164.34	1,164.34	1,161.66	2.68	433.654	
500.00	500.00	502.00	500.00	1.70	1.70	90.000	0.00	1,164.34	1,164.34	1,160.94	3.40	342.262	
600.00	600.00	602.00	600.00	2.06	2.06	90.000	0.00	1,164.34	1,164.34	1,160.22	4.12	282.687	
700.00	700.00	702.00	700.00	2.41	2.42	90.000	0.00	1,164.34	1,164.34	1,159.50	4.84	240.776	
800.00	800.00	802.00	800.00	2.77	2.78	90.000	0.00	1,164.34	1,164.34	1,158.79	5.55	209.688	
900.00	900.00	902.00	900.00	3.13	3.14	90.000	0.00	1,164.34	1,164.34	1,158.07	6.27	185.710	
1,000.00	1,000.00	1,002.00	1,000.00	3.49	3.50	90.000	0.00	1,164.34	1,164.34	1,157.35	6.99	166.653	
1,100.00	1,100.00	1,102.00	1,100.00	3.85	3.86	90.000	0.00	1,164.34	1,164.34	1,156.64	7.70	151.143	
1,165.99	1,165.99	1,167.99	1,165.99	4.08	4.09	90.000	0.00	1,164.34	1,164.34	1,156.16	8.18	142.398 CC	
1,200.00	1,200.00	1,200.00	1,198.00	4.21	4.21	90.000	0.00	1,164.34	1,164.34	1,155.93	8.41	138.393	
1,300.00	1,300.00	1,293.09	1,291.08	4.57	4.52	90.033	-0.67	1,164.70	1,164.73	1,155.64	9.09	128.141 ES	
1,400.00	1,400.00	1,384.30	1,382.27	4.92	4.83	90.129	-2.61	1,165.74	1,165.87	1,156.13	9.75	119.610	
1,500.00	1,500.00	1,475.42	1,473.31	5.28	5.13	90.287	-5.84	1,167.46	1,167.78	1,157.37	10.41	112.218	
1,600.00	1,599.99	1,566.44	1,564.19	5.62	5.43	90.464	-10.33	1,169.86	1,170.38	1,159.33	11.05	105.927	
1,700.00	1,699.96	1,657.39	1,654.90	5.95	5.74	90.616	-16.10	1,172.93	1,173.61	1,161.93	11.68	100.499	
1,800.00	1,799.86	1,748.26	1,745.42	6.28	6.05	90.745	-23.12	1,176.68	1,177.47	1,165.16	12.31	95.642	
1,900.00	1,899.68	1,839.34	1,836.01	6.61	6.36	90.850	-31.44	1,181.12	1,181.95	1,169.00	12.95	91.271	
2,000.00	1,999.37	1,939.21	1,935.27	6.94	6.71	90.941	-41.20	1,186.33	1,186.63	1,173.01	13.63	87.074	
2,100.00	2,098.90	2,039.11	2,034.55	7.28	7.05	90.947	-50.96	1,191.54	1,191.16	1,176.85	14.31	83.233	
2,100.18	2,099.08	2,039.29	2,034.73	7.28	7.05	90.947	-50.98	1,191.55	1,191.17	1,176.85	14.31	83.227	
2,200.00	2,198.36	2,139.00	2,133.83	7.62	7.40	90.912	-60.73	1,196.75	1,195.60	1,180.60	15.00	79.711	
2,300.00	2,297.81	2,238.90	2,233.12	7.96	7.76	90.877	-70.49	1,201.96	1,200.05	1,184.35	15.69	76.475	
2,400.00	2,397.26	2,338.80	2,332.40	8.30	8.11	90.842	-80.26	1,207.17	1,204.49	1,188.10	16.39	73.496	
2,500.00	2,496.71	2,438.70	2,431.68	8.65	8.46	90.807	-90.02	1,212.38	1,208.93	1,191.84	17.09	70.746	
2,600.00	2,496.16	2,538.60	2,530.97	9.00	8.82	90.773	-99.79	1,217.59	1,213.38	1,195.59	17.79	68.200	
2,700.00	2,495.62	2,638.50	2,630.25	9.35	9.18	90.739	-109.55	1,222.80	1,217.82	1,199.33	18.50	65.839	
2,800.00	2,495.07	2,738.40	2,729.53	9.70	9.53	90.705	-119.32	1,228.01	1,222.27	1,203.06	19.21	63.643	
2,900.00	2,494.52	2,838.29	2,828.82	10.05	9.89	90.671	-129.08	1,233.23	1,226.71	1,206.80	19.92	61.597	
3,000.00	2,493.97	2,938.19	2,928.10	10.41	10.25	90.638	-138.85	1,238.44	1,231.16	1,210.53	20.63	59.686	
3,100.00	3,093.42	3,038.09	3,027.39	10.76	10.61	90.605	-148.61	1,243.65	1,235.61	1,214.27	21.34	57.898	
3,200.00	3,192.87	3,137.99	3,126.67	11.12	10.97	90.572	-158.38	1,248.86	1,240.05	1,218.00	22.06	56.222	
3,300.00	3,292.33	3,237.89	3,225.95	11.48	11.34	90.539	-168.14	1,254.07	1,244.50	1,221.73	22.77	54.648	
3,400.00	3,391.78	3,337.79	3,325.24	11.83	11.70	90.507	-177.91	1,259.28	1,248.95	1,225.46	23.49	53.167	
3,500.00	3,491.23	3,437.69	3,424.52	12.19	12.06	90.475	-187.67	1,264.49	1,253.40	1,229.19	24.21	51.771	
3,600.00	3,590.68	3,537.58	3,523.80	12.55	12.42	90.443	-197.44	1,269.70	1,257.85	1,232.92	24.93	50.454	
3,700.00	3,690.13	3,637.48	3,623.09	12.91	12.79	90.411	-207.20	1,274.91	1,262.30	1,236.64	25.65	49.208	
3,800.00	3,789.59	3,737.38	3,722.37	13.27	13.15	90.380	-216.97	1,280.12	1,266.74	1,240.37	26.37	48.030	
3,900.00	3,889.04	3,837.28	3,821.65	13.63	13.51	90.348	-226.73	1,285.34	1,271.19	1,244.10	27.10	46.912	
4,000.00	3,988.49	3,937.18	3,920.94	13.99	13.88	90.317	-236.50	1,290.55	1,275.64	1,247.82	27.82	45.852	
4,100.00	4,087.94	4,037.08	4,020.22	14.35	14.24	90.286	-246.26	1,295.76	1,280.10	1,251.55	28.55	44.844	
4,200.00	4,187.39	4,136.98	4,119.50	14.72	14.61	90.256	-256.02	1,300.97	1,284.55	1,255.28	29.27	43.885	
4,300.00	4,286.84	4,236.87	4,218.79	15.08	14.97	90.225	-265.79	1,306.18	1,289.00	1,259.00	30.00	42.972	
4,400.00	4,386.30	4,336.77	4,318.07	15.44	15.34	90.195	-275.55	1,311.39	1,293.45	1,262.73	30.72	42.101	
4,500.00	4,485.75	4,436.67	4,417.35	15.80	15.70	90.165	-285.32	1,316.60	1,297.90	1,266.45	31.45	41.269	
4,600.00	4,585.20	4,536.57	4,516.64	16.17	16.07	90.135	-295.08	1,321.81	1,302.35	1,270.18	32.18	40.475	
4,700.00	4,684.65	4,636.47	4,615.92	16.53	16.44	90.106	-304.85	1,327.02	1,306.81	1,273.90	32.90	39.715	
4,800.00	4,784.10	4,736.37	4,715.20	16.89	16.80	90.076	-314.61	1,332.24	1,311.26	1,277.63	33.63	38.988	

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 115H
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 115H	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	Offset Site Error: 0.00 usft
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)			Offset Well Error: 0.00 usft
4,900.00	4,883.56	4,836.27	4,814.49	17.26	17.17	90.047	-324.38	1,337.45	1,315.71	1,281.35	34.36	38.290	
5,000.00	4,983.01	4,936.16	4,913.77	17.62	17.53	90.018	-334.14	1,342.66	1,320.17	1,285.08	35.09	37.622	
5,100.00	5,082.46	5,036.06	5,013.05	17.99	17.90	89.989	-343.91	1,347.87	1,324.62	1,288.80	35.82	36.980	
5,200.00	5,181.91	5,135.96	5,112.34	18.35	18.27	89.961	-353.67	1,353.08	1,329.08	1,292.53	36.55	36.364	
5,300.00	5,281.36	5,235.86	5,211.62	18.72	18.63	89.932	-363.44	1,358.29	1,333.53	1,296.25	37.28	35.771	
5,400.00	5,380.82	5,335.76	5,310.91	19.08	19.00	89.904	-373.20	1,363.50	1,337.99	1,299.98	38.01	35.201	
5,500.00	5,480.27	5,435.66	5,410.19	19.45	19.37	89.876	-382.97	1,368.71	1,342.44	1,303.70	38.74	34.652	
5,600.00	5,579.72	5,535.55	5,509.47	19.81	19.73	89.848	-392.73	1,373.92	1,346.90	1,307.43	39.47	34.123	
5,700.00	5,679.17	5,635.45	5,608.76	20.18	20.10	89.820	-402.50	1,379.13	1,351.35	1,311.15	40.20	33.614	
5,800.00	5,778.62	5,735.35	5,708.04	20.54	20.47	89.793	-412.26	1,384.35	1,355.81	1,314.88	40.93	33.122	
5,900.00	5,878.07	5,835.25	5,807.32	20.91	20.84	89.766	-422.03	1,389.56	1,360.27	1,318.60	41.67	32.647	
6,000.00	5,977.53	5,935.15	5,906.61	21.27	21.20	89.739	-431.79	1,394.77	1,364.72	1,322.33	42.40	32.189	
6,100.00	6,076.98	6,035.05	6,005.89	21.64	21.57	89.712	-441.56	1,399.98	1,369.18	1,326.05	43.13	31.746	
6,200.00	6,176.43	6,134.95	6,105.17	22.01	21.94	89.685	-451.32	1,405.19	1,373.64	1,329.78	43.86	31.318	
6,300.00	6,275.88	6,234.84	6,204.46	22.37	22.31	89.658	-461.09	1,410.40	1,378.10	1,333.50	44.59	30.903	
6,400.00	6,375.33	6,334.74	6,303.74	22.74	22.67	89.632	-470.85	1,415.61	1,382.56	1,337.23	45.33	30.502	
6,425.72	6,400.92	6,360.44	6,329.28	22.83	22.77	89.625	-473.36	1,416.95	1,383.70	1,338.19	45.51	30.401	
6,500.00	6,474.83	6,439.75	6,408.12	23.10	23.06	89.640	-480.96	1,421.01	1,386.97	1,340.89	46.08	30.099	
6,600.00	6,574.49	6,552.44	6,520.32	23.47	23.47	89.681	-490.22	1,425.95	1,390.76	1,343.90	46.86	29.677	
6,700.00	6,674.27	6,665.20	6,632.77	23.83	23.88	89.714	-497.54	1,429.85	1,393.75	1,346.11	47.64	29.258	
6,800.00	6,774.15	6,778.00	6,745.41	24.19	24.29	89.738	-502.91	1,432.72	1,395.93	1,347.53	48.40	28.840	
6,900.00	6,874.11	6,890.84	6,858.18	24.55	24.69	89.752	-506.31	1,434.54	1,397.32	1,348.16	49.16	28.423	
7,000.00	6,974.10	7,003.70	6,971.02	24.90	25.09	89.758	-507.76	1,435.31	1,397.91	1,348.00	49.91	28.008	
7,025.90	7,000.00	7,032.68	7,000.00	24.99	25.19	89.758	-507.82	1,435.34	1,397.94	1,347.84	50.09	27.906	
7,100.00	7,074.10	7,106.77	7,074.10	25.23	25.43	89.758	-507.82	1,435.34	1,397.94	1,347.36	50.58	27.638	
7,200.00	7,174.10	7,206.77	7,174.10	25.56	25.76	89.758	-507.82	1,435.34	1,397.94	1,346.70	51.24	27.285	
7,300.00	7,274.10	7,306.77	7,274.10	25.89	26.09	89.758	-507.82	1,435.34	1,397.94	1,346.04	51.89	26.939	
7,400.00	7,374.10	7,406.77	7,374.10	26.22	26.41	89.758	-507.82	1,435.34	1,397.94	1,345.38	52.55	26.601	
7,500.00	7,474.10	7,506.77	7,474.10	26.55	26.74	89.758	-507.82	1,435.34	1,397.94	1,344.72	53.21	26.271	
7,600.00	7,574.10	7,606.77	7,574.10	26.88	27.07	89.758	-507.82	1,435.34	1,397.94	1,344.06	53.87	25.949	
7,700.00	7,674.10	7,706.77	7,674.10	27.21	27.40	89.758	-507.82	1,435.34	1,397.94	1,343.40	54.54	25.633	
7,800.00	7,774.10	7,806.77	7,774.10	27.55	27.74	89.758	-507.82	1,435.34	1,397.94	1,342.74	55.20	25.325	
7,900.00	7,874.10	7,906.77	7,874.10	27.88	28.07	89.758	-507.82	1,435.34	1,397.94	1,342.07	55.87	25.023	
8,000.00	7,974.10	8,006.77	7,974.10	28.21	28.40	89.758	-507.82	1,435.34	1,397.94	1,341.40	56.53	24.728	
8,100.00	8,074.10	8,106.77	8,074.10	28.55	28.74	89.758	-507.82	1,435.34	1,397.94	1,340.73	57.20	24.439	
8,200.00	8,174.10	8,206.77	8,174.10	28.88	29.07	89.758	-507.82	1,435.34	1,397.94	1,340.06	57.87	24.156	
8,300.00	8,274.10	8,306.77	8,274.10	29.22	29.40	89.758	-507.82	1,435.34	1,397.94	1,339.39	58.54	23.879	
8,347.73	8,321.83	8,354.51	8,321.83	29.38	29.56	89.758	-507.82	1,435.34	1,397.94	1,339.07	58.86	23.749	
8,350.00	8,324.10	8,356.77	8,324.10	29.39	29.57	89.758	-507.82	1,435.34	1,397.94	1,339.06	58.88	23.743	
8,400.00	8,374.02	8,404.56	8,371.87	29.55	29.73	89.819	-506.93	1,435.36	1,397.97	1,338.76	59.20	23.613	
8,450.00	8,423.55	8,450.00	8,417.09	29.72	29.88	89.917	-502.60	1,435.47	1,398.12	1,338.60	59.52	23.491	
8,500.00	8,472.31	8,498.47	8,464.78	29.87	30.04	90.018	-494.06	1,435.68	1,398.39	1,338.56	59.83	23.372	
8,550.00	8,519.92	8,545.66	8,510.36	30.03	30.18	90.143	-481.89	1,435.97	1,398.79	1,338.66	60.13	23.262	
8,600.00	8,566.02	8,593.04	8,554.96	30.18	30.32	90.281	-465.95	1,436.36	1,399.31	1,338.88	60.42	23.159	
8,650.00	8,610.27	8,640.62	8,598.27	30.32	30.46	90.428	-446.29	1,436.84	1,399.94	1,339.24	60.70	23.063	
8,700.00	8,652.32	8,688.42	8,640.00	30.45	30.59	90.580	-422.99	1,437.41	1,400.70	1,339.73	60.97	22.975	
8,750.00	8,691.85	8,736.47	8,679.82	30.58	30.71	90.733	-396.15	1,438.07	1,401.56	1,340.34	61.22	22.894	
8,800.00	8,728.57	8,784.78	8,717.46	30.70	30.83	90.882	-365.89	1,438.81	1,402.53	1,341.07	61.46	22.821	
8,850.00	8,762.19	8,833.36	8,752.60	30.81	30.94	91.023	-332.38	1,439.63	1,403.60	1,341.91	61.68	22.755	
8,900.00	8,792.47	8,882.23	8,784.96	30.91	31.04	91.152	-295.79	1,440.52	1,404.76	1,342.86	61.89	22.696	

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 115H
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 115H	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)	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		
8,950.00	8,819.16	8,931.41	8,814.26	31.01	31.14	91.265	-256.33	1,441.49	1,406.00	1,343.91	62.09	22.645			
9,000.00	8,842.06	8,980.90	8,840.22	31.10	31.22	91.358	-214.22	1,442.52	1,407.32	1,345.05	62.27	22.601			
9,050.00	8,861.01	9,030.71	8,862.58	31.18	31.31	91.429	-169.74	1,443.60	1,408.70	1,346.27	62.43	22.563			
9,100.00	8,875.85	9,080.86	8,881.10	31.25	31.38	91.474	-123.16	1,444.74	1,410.14	1,347.55	62.58	22.532			
9,150.00	8,886.47	9,131.36	8,895.56	31.32	31.45	91.493	-74.82	1,445.92	1,411.62	1,348.90	62.72	22.507			
9,200.00	8,892.80	9,182.19	8,905.77	31.38	31.51	91.484	-25.05	1,447.14	1,413.13	1,350.29	62.84	22.488			
9,249.73	8,894.78	9,233.10	8,911.53	31.43	31.56	91.447	25.50	1,448.37	1,414.65	1,351.71	62.94	22.476			
9,300.00	8,894.61	9,295.27	8,912.85	31.48	31.62	90.965	87.62	1,449.81	1,416.13	1,353.08	63.05	22.459			
9,400.00	8,894.26	9,427.92	8,912.62	31.60	31.76	89.644	220.27	1,449.75	1,416.45	1,353.11	63.34	22.364			
9,500.00	8,893.91	9,527.92	8,912.44	31.75	31.90	89.644	320.27	1,449.13	1,416.38	1,352.76	63.62	22.262			
9,600.00	8,893.56	9,627.92	8,912.27	31.92	32.06	89.644	420.27	1,448.52	1,416.31	1,352.36	63.96	22.145			
9,700.00	8,893.21	9,727.92	8,912.09	32.11	32.25	89.644	520.26	1,447.90	1,416.24	1,351.91	64.33	22.014			
9,800.00	8,892.86	9,827.92	8,911.92	32.32	32.46	89.644	620.26	1,447.28	1,416.18	1,351.42	64.76	21.869			
9,900.00	8,892.51	9,927.92	8,911.75	32.56	32.69	89.644	720.26	1,446.66	1,416.11	1,350.88	65.22	21.712			
10,000.00	8,892.17	10,027.92	8,911.57	32.82	32.94	89.644	820.26	1,446.04	1,416.04	1,350.31	65.73	21.543			
10,100.00	8,891.82	10,127.92	8,911.40	33.09	33.21	89.644	920.25	1,445.42	1,415.97	1,349.69	66.28	21.363			
10,200.00	8,891.47	10,227.92	8,911.22	33.39	33.50	89.644	1,020.25	1,444.81	1,415.90	1,349.03	66.87	21.174			
10,300.00	8,891.12	10,327.92	8,911.05	33.71	33.81	89.644	1,120.25	1,444.19	1,415.83	1,348.33	67.50	20.975			
10,400.00	8,890.77	10,427.92	8,910.87	34.04	34.15	89.644	1,220.25	1,443.57	1,415.77	1,347.60	68.17	20.769			
10,500.00	8,890.42	10,527.92	8,910.70	34.40	34.50	89.644	1,320.25	1,442.95	1,415.70	1,346.82	68.87	20.555			
10,600.00	8,890.07	10,627.92	8,910.52	34.77	34.87	89.644	1,420.24	1,442.33	1,415.63	1,346.01	69.62	20.335			
10,700.00	8,889.72	10,727.92	8,910.35	35.16	35.25	89.644	1,520.24	1,441.72	1,415.56	1,345.17	70.39	20.110			
10,800.00	8,889.37	10,827.92	8,910.17	35.57	35.65	89.644	1,620.24	1,441.10	1,415.49	1,344.29	71.20	19.880			
10,900.00	8,889.02	10,927.92	8,910.00	35.99	36.07	89.644	1,720.24	1,440.48	1,415.42	1,343.38	72.04	19.647			
11,000.00	8,888.68	11,027.92	8,909.83	36.43	36.51	89.644	1,820.23	1,439.86	1,415.36	1,342.44	72.92	19.410			
11,100.00	8,888.33	11,127.92	8,909.65	36.89	36.96	89.644	1,920.23	1,439.24	1,415.29	1,341.46	73.82	19.171			
11,200.00	8,887.98	11,227.92	8,909.48	37.36	37.42	89.644	2,020.23	1,438.62	1,415.22	1,340.46	74.76	18.931			
11,300.00	8,887.63	11,327.92	8,909.30	37.84	37.90	89.644	2,120.23	1,438.01	1,415.15	1,339.43	75.72	18.689			
11,400.00	8,887.28	11,427.92	8,909.13	38.34	38.40	89.644	2,220.22	1,437.39	1,415.08	1,338.37	76.71	18.448			
11,500.00	8,886.93	11,527.92	8,908.95	38.85	38.90	89.644	2,320.22	1,436.77	1,415.01	1,337.29	77.72	18.206			
11,600.00	8,886.58	11,627.92	8,908.78	39.37	39.42	89.644	2,420.22	1,436.15	1,414.95	1,336.18	78.76	17.964			
11,700.00	8,886.23	11,727.92	8,908.60	39.90	39.95	89.644	2,520.22	1,435.53	1,414.88	1,335.05	79.83	17.724			
11,800.00	8,885.88	11,827.92	8,908.43	40.45	40.49	89.644	2,620.22	1,434.92	1,414.81	1,333.89	80.92	17.485			
11,900.00	8,885.53	11,927.91	8,908.25	41.01	41.05	89.644	2,720.21	1,434.30	1,414.74	1,332.71	82.03	17.247			
12,000.00	8,885.19	12,027.91	8,908.08	41.58	41.61	89.644	2,820.21	1,433.68	1,414.67	1,331.52	83.16	17.012			
12,100.00	8,884.84	12,127.91	8,907.91	42.15	42.19	89.644	2,920.21	1,433.06	1,414.61	1,330.30	84.31	16.778			
12,200.00	8,884.49	12,227.91	8,907.73	42.74	42.77	89.644	3,020.21	1,432.44	1,414.54	1,329.06	85.48	16.548			
12,300.00	8,884.14	12,327.91	8,907.56	43.34	43.36	89.644	3,120.20	1,431.82	1,414.47	1,327.80	86.67	16.320			
12,400.00	8,883.79	12,427.91	8,907.38	43.94	43.97	89.644	3,220.20	1,431.21	1,414.40	1,326.52	87.88	16.094			
12,500.00	8,883.44	12,527.91	8,907.21	44.56	44.58	89.644	3,320.20	1,430.59	1,414.33	1,325.23	89.11	15.872			
12,600.00	8,883.09	12,627.91	8,907.03	45.18	45.20	89.644	3,420.20	1,429.97	1,414.27	1,323.92	90.35	15.653			
12,700.00	8,882.74	12,727.91	8,906.86	45.81	45.83	89.644	3,520.20	1,429.35	1,414.20	1,322.59	91.61	15.437			
12,800.00	8,882.39	12,827.91	8,906.68	46.45	46.46	89.644	3,620.19	1,428.73	1,414.13	1,321.25	92.88	15.225			
12,900.00	8,882.04	12,927.91	8,906.51	47.10	47.11	89.644	3,720.19	1,428.12	1,414.06	1,319.89	94.17	15.016			
13,000.00	8,881.69	13,027.91	8,906.33	47.75	47.76	89.644	3,820.19	1,427.50	1,413.99	1,318.52	95.47	14.810			
13,100.00	8,881.35	13,127.91	8,906.16	48.41	48.41	89.644	3,920.19	1,426.88	1,413.93	1,317.14	96.79	14.608			
13,200.00	8,881.00	13,227.91	8,905.99	49.08	49.08	89.644	4,020.18	1,426.26	1,413.86	1,315.74	98.12	14.409			
13,300.00	8,880.65	13,327.91	8,905.81	49.75	49.75	89.644	4,120.18	1,425.64	1,413.79	1,314.33	99.46	14.214			
13,400.00	8,880.30	13,427.91	8,905.64	50.43	50.42	89.644	4,220.18	1,425.02	1,413.72	1,312.91	100.82	14.023			
13,500.00	8,879.95	13,527.91	8,905.46	51.11	51.10	89.644	4,320.18	1,424.41	1,413.66	1,311.47	102.18	13.835			
13,600.00	8,879.60	13,627.91	8,905.29	51.80	51.79	89.644	4,420.18	1,423.79	1,413.59	1,310.03	103.56	13.650			

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 115H
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 115H	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		
13,700.00	8,879.25	13,727.91	8,905.11	52.50	52.48	89.644	4,520.17	1,423.17	1,413.52	1,308.58	104.95	13.469			
13,800.00	8,878.90	13,827.91	8,904.94	53.20	53.18	89.644	4,620.17	1,422.55	1,413.45	1,307.11	106.34	13.292			
13,900.00	8,878.55	13,927.91	8,904.76	53.90	53.88	89.644	4,720.17	1,421.93	1,413.39	1,305.64	107.75	13.117			
14,000.00	8,878.20	14,027.91	8,904.59	54.61	54.59	89.644	4,820.17	1,421.31	1,413.32	1,304.15	109.17	12.947			
14,100.00	8,877.86	14,127.91	8,904.41	55.33	55.30	89.644	4,920.16	1,420.70	1,413.25	1,302.66	110.59	12.779			
14,200.00	8,877.51	14,227.91	8,904.24	56.04	56.02	89.644	5,020.16	1,420.08	1,413.18	1,301.16	112.03	12.615			
14,300.00	8,877.16	14,327.91	8,904.07	56.77	56.74	89.644	5,120.16	1,419.46	1,413.12	1,299.65	113.47	12.454			
14,400.00	8,876.81	14,427.91	8,903.89	57.49	57.47	89.644	5,220.16	1,418.84	1,413.05	1,298.13	114.92	12.296			
14,500.00	8,876.46	14,527.91	8,903.72	58.22	58.19	89.644	5,320.16	1,418.22	1,412.98	1,296.60	116.38	12.141			
14,600.00	8,876.11	14,627.91	8,903.54	58.96	58.93	89.644	5,420.15	1,417.61	1,412.91	1,295.07	117.84	11.990			
14,700.00	8,875.76	14,727.91	8,903.37	59.70	59.66	89.644	5,520.15	1,416.99	1,412.85	1,293.53	119.32	11.841			
14,800.00	8,875.41	14,827.91	8,903.19	60.44	60.40	89.644	5,620.15	1,416.37	1,412.78	1,291.98	120.80	11.696			
14,900.00	8,875.06	14,927.91	8,903.02	61.18	61.14	89.644	5,720.15	1,415.75	1,412.71	1,290.43	122.28	11.553			
15,000.00	8,874.71	15,027.91	8,902.84	61.93	61.89	89.644	5,820.14	1,415.13	1,412.64	1,288.87	123.78	11.413			
15,100.00	8,874.36	15,127.91	8,902.67	62.68	62.64	89.644	5,920.14	1,414.51	1,412.58	1,287.30	125.28	11.276			
15,200.00	8,874.02	15,227.91	8,902.49	63.43	63.39	89.644	6,020.14	1,413.90	1,412.51	1,285.73	126.78	11.141			
15,300.00	8,873.67	15,327.91	8,902.32	64.19	64.15	89.644	6,120.14	1,413.28	1,412.44	1,284.15	128.29	11.010			
15,400.00	8,873.32	15,427.91	8,902.15	64.95	64.90	89.644	6,220.14	1,412.66	1,412.37	1,282.56	129.81	10.880			
15,500.00	8,872.97	15,527.91	8,901.97	65.71	65.66	89.644	6,320.13	1,412.04	1,412.31	1,280.98	131.33	10.754			
15,600.00	8,872.62	15,627.91	8,901.80	66.48	66.43	89.644	6,420.13	1,411.42	1,412.24	1,279.38	132.86	10.630			
15,700.00	8,872.27	15,727.91	8,901.62	67.24	67.19	89.644	6,520.13	1,410.81	1,412.17	1,277.78	134.39	10.508			
15,800.00	8,871.92	15,827.91	8,901.45	68.01	67.96	89.644	6,620.13	1,410.19	1,412.10	1,276.18	135.93	10.389			
15,900.00	8,871.57	15,927.91	8,901.27	68.79	68.73	89.644	6,720.12	1,409.57	1,412.04	1,274.57	137.47	10.272			
16,000.00	8,871.22	16,027.91	8,901.10	69.56	69.51	89.644	6,820.12	1,408.95	1,411.97	1,272.95	139.02	10.157			
16,100.00	8,870.87	16,127.91	8,900.92	70.34	70.28	89.644	6,920.12	1,408.33	1,411.90	1,271.34	140.57	10.044			
16,200.00	8,870.53	16,227.91	8,900.75	71.11	71.06	89.644	7,020.12	1,407.71	1,411.84	1,269.71	142.12	9.934			
16,300.00	8,870.18	16,327.91	8,900.57	71.90	71.84	89.644	7,120.12	1,407.10	1,411.77	1,268.09	143.68	9.826			
16,400.00	8,869.83	16,427.91	8,900.40	72.68	72.62	89.644	7,220.11	1,406.48	1,411.70	1,266.46	145.24	9.720			
16,500.00	8,869.48	16,527.91	8,900.23	73.46	73.40	89.644	7,320.11	1,405.86	1,411.63	1,264.82	146.81	9.615			
16,600.00	8,869.13	16,627.91	8,900.05	74.25	74.19	89.644	7,420.11	1,405.24	1,411.57	1,263.19	148.38	9.513			
16,700.00	8,868.78	16,727.91	8,899.88	75.04	74.97	89.644	7,520.11	1,404.62	1,411.50	1,261.55	149.96	9.413			
16,800.00	8,868.43	16,827.91	8,899.70	75.83	75.76	89.644	7,620.10	1,404.01	1,411.43	1,259.90	151.53	9.314			
16,900.00	8,868.08	16,927.91	8,899.53	76.62	76.55	89.644	7,720.10	1,403.39	1,411.37	1,258.25	153.11	9.218			
17,000.00	8,867.73	17,027.91	8,899.35	77.41	77.34	89.644	7,820.10	1,402.77	1,411.30	1,256.60	154.70	9.123			
17,100.00	8,867.38	17,127.91	8,899.18	78.21	78.14	89.644	7,920.10	1,402.15	1,411.23	1,254.95	156.29	9.030			
17,200.00	8,867.03	17,227.91	8,899.00	79.00	78.93	89.644	8,020.10	1,401.53	1,411.17	1,253.29	157.88	8.938			
17,300.00	8,866.69	17,327.91	8,898.83	79.80	79.73	89.644	8,120.09	1,400.91	1,411.10	1,251.63	159.47	8.849			
17,400.00	8,866.34	17,427.91	8,898.65	80.60	80.53	89.644	8,220.09	1,400.30	1,411.03	1,249.97	161.07	8.761			
17,500.00	8,865.99	17,527.91	8,898.48	81.40	81.33	89.643	8,320.09	1,399.68	1,410.97	1,248.30	162.67	8.674			
17,600.00	8,865.64	17,627.90	8,898.31	82.20	82.13	89.643	8,420.09	1,399.06	1,410.90	1,246.63	164.27	8.589			
17,700.00	8,865.29	17,727.90	8,898.13	83.01	82.93	89.643	8,520.08	1,398.44	1,410.83	1,244.96	165.87	8.506			
17,800.00	8,864.94	17,827.90	8,897.96	83.81	83.73	89.643	8,620.08	1,397.82	1,410.76	1,243.29	167.48	8.424			
17,900.00	8,864.59	17,927.90	8,897.78	84.62	84.54	89.643	8,720.08	1,397.21	1,410.70	1,241.61	169.09	8.343			
18,000.00	8,864.24	18,027.90	8,897.61	85.42	85.34	89.643	8,820.08	1,396.59	1,410.63	1,239.93	170.70	8.264			
18,100.00	8,863.89	18,127.90	8,897.43	86.23	86.15	89.643	8,920.07	1,395.97	1,410.56	1,238.25	172.32	8.186			
18,200.00	8,863.54	18,227.90	8,897.26	87.04	86.96	89.643	9,020.07	1,395.35	1,410.50	1,236.57	173.93	8.109			
18,300.00	8,863.20	18,327.90	8,897.08	87.85	87.77	89.643	9,120.07	1,394.73	1,410.43	1,234.88	175.55	8.034			
18,400.00	8,862.85	18,427.90	8,896.91	88.66	88.58	89.643	9,220.07	1,394.11	1,410.36	1,233.19	177.17	7.960			
18,500.00	8,862.50	18,527.90	8,896.73	89.47	89.39	89.643	9,320.07	1,393.50	1,410.30	1,231.50	178.80	7.888			
18,600.00	8,862.15	18,627.90	8,896.56	90.29	90.20	89.643	9,420.06	1,392.88	1,410.23	1,229.81	180.42	7.816			

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 115H
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 115H	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
Reference	Offset	Semi Major Axis	Reference	Offset	Azimuth	Offset Wellbore Centre	Rule Assigned:				Warning			
Measured	Vertical	Measured	Vertical	Reference	Offset	from North	+N/-S	+E/-W	Between	Between	Minimum	Separation		
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)						(usft)	(usft)	(usft)			
18,700.00	8,861.80	18,727.90	8,896.39	91.10	91.02	89.643	9,520.06	1,392.26	1,410.16	1,228.12	182.05	7.746		
18,800.00	8,861.45	18,827.90	8,896.21	91.92	91.83	89.643	9,620.06	1,391.64	1,410.10	1,226.42	183.68	7.677		
18,900.00	8,861.10	18,927.90	8,896.04	92.74	92.65	89.643	9,720.06	1,391.02	1,410.03	1,224.72	185.31	7.609		
19,000.00	8,860.75	19,027.90	8,895.86	93.55	93.46	89.643	9,820.05	1,390.41	1,409.97	1,223.02	186.94	7.542		
19,100.00	8,860.40	19,127.90	8,895.69	94.37	94.28	89.643	9,920.05	1,389.79	1,409.90	1,221.32	188.58	7.476		
19,175.37	8,860.14	19,203.27	8,895.56	94.99	94.90	89.643	9,995.42	1,389.32	1,409.85	1,220.04	189.81	7.428 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 115H
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 115H	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	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	900.00	902.00	900.00	3.13	3.14	90.000	0.00	1,189.34	1,189.34	1,183.07	6.27	189.697			
1,000.00	1,000.00	1,002.00	1,000.00	3.49	3.50	90.000	0.00	1,189.34	1,189.34	1,182.35	6.99	170.231			
1,100.00	1,100.00	1,102.00	1,100.00	3.85	3.86	90.000	0.00	1,189.34	1,189.34	1,181.64	7.70	154.389			
1,200.00	1,200.00	1,202.00	1,200.00	4.21	4.21	90.000	0.00	1,189.34	1,189.34	1,180.92	8.42	141.243			
1,300.00	1,300.00	1,302.00	1,300.00	4.57	4.57	90.000	0.00	1,189.34	1,189.34	1,180.20	9.14	130.161			
1,400.00	1,400.00	1,402.00	1,400.00	4.92	4.93	90.000	0.00	1,189.34	1,189.34	1,179.49	9.85	120.691			
1,500.00	1,500.00	1,502.00	1,500.00	5.28	5.29	90.000	0.00	1,189.34	1,189.34	1,178.77	10.57	112.506			
1,600.00	1,599.99	1,601.99	1,599.99	5.62	5.65	89.958	0.00	1,189.34	1,189.28	1,178.01	11.27	105.526			
1,700.00	1,699.96	1,701.96	1,699.96	5.95	6.01	89.832	0.00	1,189.34	1,189.09	1,177.14	11.95	99.479			
1,800.00	1,799.86	1,800.00	1,798.00	6.28	6.36	89.623	0.00	1,189.34	1,188.80	1,176.16	12.63	94.103			
1,817.08	1,816.92	1,814.62	1,812.62	6.33	6.41	89.579	-0.01	1,189.37	1,188.77	1,176.03	12.74	93.309 CC, ES			
1,900.00	1,899.68	1,878.59	1,876.58	6.61	6.63	89.342	-0.26	1,190.11	1,189.39	1,176.16	13.23	89.870			
2,000.00	1,999.37	1,955.67	1,953.63	6.94	6.89	89.003	-1.01	1,192.35	1,191.82	1,178.00	13.82	86.214			
2,100.00	2,098.90	2,032.64	2,030.50	7.28	7.15	88.607	-2.27	1,196.05	1,196.08	1,181.67	14.41	83.006			
2,100.18	2,099.08	2,032.78	2,030.64	7.28	7.15	88.606	-2.27	1,196.06	1,196.09	1,181.68	14.41	83.001			
2,200.00	2,198.36	2,100.00	2,097.69	7.62	7.38	88.184	-3.77	1,200.50	1,202.28	1,187.33	14.95	80.400			
2,300.00	2,297.81	2,186.22	2,183.56	7.96	7.68	87.816	-6.24	1,207.82	1,210.30	1,194.73	15.58	77.704			
2,400.00	2,397.26	2,262.76	2,259.62	8.30	7.94	87.465	-8.96	1,215.87	1,220.28	1,204.13	16.15	75.538			
2,500.00	2,496.71	2,339.05	2,335.26	8.65	8.20	87.144	-12.15	1,225.32	1,232.14	1,215.41	16.73	73.650			
2,600.00	2,596.16	2,415.04	2,410.38	9.00	8.47	86.852	-15.80	1,236.15	1,245.86	1,228.56	17.30	72.014			
2,700.00	2,695.62	2,500.00	2,494.09	9.35	8.77	86.620	-20.46	1,249.94	1,261.47	1,243.56	17.91	70.417			
2,800.00	2,795.07	2,565.86	2,558.74	9.70	9.00	86.358	-24.48	1,261.84	1,278.81	1,260.39	18.42	69.410			
2,900.00	2,894.52	2,640.59	2,631.83	10.05	9.26	86.154	-29.47	1,276.62	1,297.99	1,279.01	18.98	68.401			
3,000.00	2,993.97	2,714.80	2,704.08	10.41	9.53	85.976	-34.87	1,292.63	1,318.94	1,299.42	19.52	67.565			
3,100.00	3,093.42	2,800.00	2,786.62	10.76	9.84	85.875	-41.63	1,312.66	1,341.71	1,321.58	20.13	66.651			
3,200.00	3,192.87	2,861.43	2,845.82	11.12	10.06	85.696	-46.87	1,328.17	1,366.08	1,345.49	20.59	66.354			
3,300.00	3,292.33	2,944.15	2,925.18	11.48	10.36	85.639	-54.33	1,350.28	1,392.07	1,370.89	21.18	65.731			
3,400.00	3,391.78	3,040.64	3,017.67	11.83	10.72	85.651	-63.12	1,376.32	1,418.33	1,396.47	21.86	64.878			
3,500.00	3,491.23	3,137.13	3,110.17	12.19	11.08	85.662	-71.91	1,402.35	1,444.59	1,422.05	22.55	64.069			
3,600.00	3,590.68	3,233.61	3,202.66	12.55	11.45	85.674	-80.70	1,428.39	1,470.86	1,447.62	23.24	63.301			
3,700.00	3,690.13	3,330.10	3,295.15	12.91	11.81	85.684	-89.49	1,454.42	1,497.12	1,473.20	23.93	62.571			
3,800.00	3,789.59	3,426.59	3,387.65	13.27	12.18	85.695	-98.28	1,480.45	1,523.39	1,498.77	24.62	61.877			
3,900.00	3,889.04	3,523.08	3,480.14	13.63	12.56	85.705	-107.07	1,506.49	1,549.65	1,524.34	25.31	61.216			
4,000.00	3,988.49	3,619.57	3,572.64	13.99	12.93	85.715	-115.86	1,532.52	1,575.92	1,549.91	26.01	60.587			
4,100.00	4,087.94	3,716.06	3,665.13	14.35	13.31	85.724	-124.64	1,558.55	1,602.18	1,575.47	26.71	59.986			
4,200.00	4,187.39	3,812.55	3,757.62	14.72	13.68	85.733	-133.43	1,584.59	1,628.45	1,601.04	27.41	59.413			
4,300.00	4,286.84	3,909.04	3,850.12	15.08	14.06	85.742	-142.22	1,610.62	1,654.71	1,626.60	28.11	58.866			
4,400.00	4,386.30	4,005.53	3,942.61	15.44	14.44	85.750	-151.01	1,636.66	1,680.97	1,652.16	28.81	58.342			
4,500.00	4,485.75	4,102.02	4,035.11	15.80	14.83	85.759	-159.80	1,662.69	1,707.24	1,677.72	29.52	57.841			
4,600.00	4,585.20	4,198.50	4,127.60	16.17	15.21	85.767	-168.59	1,688.72	1,733.50	1,703.28	30.22	57.362			
4,700.00	4,684.65	4,294.99	4,220.09	16.53	15.59	85.774	-177.38	1,714.76	1,759.77	1,728.84	30.93	56.902			
4,800.00	4,784.10	4,391.48	4,312.59	16.89	15.98	85.782	-186.17	1,740.79	1,786.03	1,754.40	31.63	56.461			

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 115H
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 115H	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	4,883.56	4,487.97	4,405.08	17.26	16.37	85.789	-194.95	1,766.82	1,812.30	1,779.96	32.34	56.037	
5,000.00	4,983.01	4,584.46	4,497.58	17.62	16.76	85.796	-203.74	1,792.86	1,838.56	1,805.51	33.05	55.631	
5,100.00	5,082.46	4,680.95	4,590.07	17.99	17.14	85.803	-212.53	1,818.89	1,864.83	1,831.07	33.76	55.240	
5,200.00	5,181.91	4,777.44	4,682.56	18.35	17.53	85.810	-221.32	1,844.93	1,891.09	1,856.62	34.47	54.863	
5,300.00	5,281.36	4,873.93	4,775.06	18.72	17.92	85.817	-230.11	1,870.96	1,917.36	1,882.18	35.18	54.501	
5,400.00	5,380.82	4,970.42	4,867.55	19.08	18.31	85.823	-238.90	1,896.99	1,943.62	1,907.73	35.89	54.152	
5,500.00	5,480.27	5,066.90	4,960.04	19.45	18.71	85.829	-247.69	1,923.03	1,969.89	1,933.28	36.60	53.816	
5,600.00	5,579.72	5,163.39	5,052.54	19.81	19.10	85.835	-256.48	1,949.06	1,996.15	1,958.83	37.32	53.492	
5,700.00	5,679.17	5,259.88	5,145.03	20.18	19.49	85.841	-265.26	1,975.09	2,022.42	1,984.39	38.03	53.179	
5,800.00	5,778.62	5,356.37	5,237.53	20.54	19.89	85.847	-274.05	2,001.13	2,048.68	2,009.94	38.74	52.877	
5,900.00	5,878.07	5,452.86	5,330.02	20.91	20.28	85.852	-282.84	2,027.16	2,074.95	2,035.49	39.46	52.585	
6,000.00	5,977.53	5,549.35	5,422.51	21.27	20.67	85.858	-291.63	2,053.19	2,101.21	2,061.04	40.17	52.303	
6,100.00	6,076.98	5,645.84	5,515.01	21.64	21.07	85.863	-300.42	2,079.23	2,127.48	2,086.59	40.89	52.029	
6,200.00	6,176.43	5,742.33	5,607.50	22.01	21.46	85.868	-309.21	2,105.26	2,153.74	2,112.14	41.61	51.765	
6,300.00	6,275.88	5,838.82	5,700.00	22.37	21.86	85.873	-318.00	2,131.30	2,180.01	2,137.68	42.32	51.509	
6,400.00	6,375.33	5,935.31	5,792.49	22.74	22.26	85.878	-326.79	2,157.33	2,206.27	2,163.23	43.04	51.262	
6,425.72	6,400.92	5,960.12	5,816.28	22.83	22.36	85.880	-329.05	2,164.03	2,213.03	2,169.80	43.22	51.199	
6,500.00	6,474.83	6,031.79	5,884.98	23.10	22.65	85.896	-335.57	2,183.36	2,232.55	2,188.79	43.76	51.023	
6,600.00	6,574.49	6,128.23	5,977.43	23.47	23.05	85.957	-344.36	2,209.38	2,258.87	2,214.40	44.47	50.796	
6,700.00	6,674.27	6,224.61	6,069.81	23.83	23.45	86.062	-353.14	2,235.39	2,285.24	2,240.06	45.18	50.581	
6,800.00	6,774.15	6,320.89	6,162.11	24.19	23.84	86.209	-361.91	2,261.36	2,311.64	2,265.76	45.89	50.377	
6,900.00	6,874.11	6,417.04	6,254.28	24.55	24.24	86.397	-370.67	2,287.31	2,338.10	2,291.51	46.59	50.185	
7,000.00	6,974.10	6,513.04	6,346.30	24.90	24.64	86.624	-379.41	2,313.21	2,364.61	2,317.32	47.29	50.004	
7,025.90	7,000.00	6,537.87	6,370.11	24.99	24.74	86.689	-381.67	2,319.91	2,371.49	2,324.03	47.47	49.962	
7,100.00	7,074.10	6,608.90	6,438.20	25.23	25.03	86.877	-388.14	2,339.07	2,391.18	2,343.22	47.96	49.854	
7,200.00	7,174.10	6,704.76	6,530.09	25.56	25.43	87.126	-396.87	2,364.94	2,417.80	2,369.16	48.64	49.712	
7,300.00	7,274.10	6,800.62	6,621.98	25.89	25.82	87.369	-405.60	2,390.80	2,444.46	2,395.15	49.31	49.574	
7,400.00	7,374.10	6,896.48	6,713.87	26.22	26.22	87.608	-414.34	2,416.66	2,471.15	2,421.17	49.98	49.439	
7,500.00	7,474.10	6,992.34	6,805.76	26.55	26.62	87.841	-423.07	2,442.53	2,497.89	2,447.23	50.66	49.308	
7,600.00	7,574.10	7,088.20	6,897.65	26.88	27.01	88.070	-431.80	2,468.39	2,524.67	2,473.33	51.34	49.180	
7,700.00	7,674.10	7,184.06	6,989.54	27.21	27.41	88.293	-440.53	2,494.26	2,551.48	2,499.47	52.01	49.056	
7,800.00	7,774.10	7,279.92	7,081.43	27.55	27.81	88.513	-449.26	2,520.12	2,578.32	2,525.64	52.69	48.934	
7,900.00	7,874.10	7,375.87	7,173.32	27.88	28.62	88.916	-458.03	2,546.20	2,605.68	2,553.67	53.37	48.812	
8,000.00	7,974.10	7,471.82	7,265.21	28.21	29.88	89.397	-466.76	2,572.18	2,631.62	2,579.71	54.05	48.690	
8,100.00	8,074.10	7,568.77	7,357.10	28.55	30.91	89.635	-475.50	2,598.16	2,658.10	2,606.19	54.73	48.568	
8,200.00	8,174.10	7,665.72	7,449.00	28.88	31.87	89.720	-484.23	2,624.14	2,684.58	2,632.67	55.41	48.446	
8,300.00	8,274.10	7,762.67	7,540.89	29.22	32.82	89.720	-493.00	2,650.12	2,710.56	2,658.65	56.09	48.324	
8,347.73	8,321.83	7,859.62	7,632.78	29.38	32.37	89.720	-500.87	2,676.10	2,736.54	2,684.63	56.77	48.202	
8,350.00	8,324.10	7,956.57	7,724.67	29.39	32.38	89.721	-500.87	2,676.99	2,736.61	2,684.70	56.78	48.201	
8,400.00	8,374.02	8,053.52	7,816.56	29.55	32.54	89.772	-500.87	2,677.88	2,736.68	2,684.77	56.79	48.199	
8,450.00	8,423.55	8,150.47	7,908.45	29.72	32.70	89.881	-499.14	2,672.98	2,736.75	2,684.84	56.80	48.198	
8,500.00	8,472.31	8,247.42	8,000.34	29.87	32.85	89.985	-497.41	2,672.94	2,736.71	2,684.80	56.81	48.197	
8,550.00	8,519.92	8,344.37	8,092.23	30.03	33.01	90.082	-482.16	2,672.88	2,736.66	2,684.75	56.82	48.196	
8,600.00	8,566.02	8,441.32	8,184.12	30.18	33.15	90.167	-466.76	2,672.78	2,736.59	2,684.67	56.83	48.195	
8,650.00	8,610.27	8,538.27	8,276.01	30.32	33.29	90.238	-446.76	2,672.66	2,736.52	2,684.55	56.84	48.194	
8,700.00	8,652.32	8,635.22	8,367.90	30.45	33.42	90.291	-422.20	2,672.51	2,736.46	2,684.49	56.85	48.193	
8,750.00	8,691.85	8,732.17	8,459.79	30.58	33.53	90.326	-393.20	2,672.33	2,736.39	2,684.42	56.86	48.192	
8,800.00	8,728.57	8,829.12	8,551.68	30.70	33.64	90.339	-359.91	2,672.12	2,736.33	2,684.36	56.87	48.191	
8,850.00	8,762.19	8,926.07	8,643.57	30.81	33.72	90.331	-322.56	2,671.89	2,736.30	2,684.33	56.88	48.190	
8,900.00	8,792.47	9,023.02	8,735.46	30.91	33.80	90.301	-281.41	2,671.64	2,736.30	2,684.33	56.88	48.190	

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 115H
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 115H	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		
8,950.00	8,819.16	9,167.92	8,862.50	31.01	33.85	90.250	-236.80	2,671.37	2,635.91	2,573.24	62.67	42.060			
9,000.00	8,842.06	9,222.92	8,889.88	31.10	33.90	90.180	-189.13	2,671.07	2,635.92	2,573.08	62.84	41.943			
9,050.00	8,861.01	9,278.16	8,912.66	31.18	33.92	90.092	-138.83	2,670.76	2,635.93	2,572.93	63.00	41.838			
9,100.00	8,875.85	9,333.59	8,930.54	31.25	33.94	89.989	-86.39	2,670.44	2,635.93	2,572.78	63.15	41.743			
9,150.00	8,886.47	9,389.14	8,943.29	31.32	33.94	89.876	-32.34	2,670.11	2,635.91	2,572.64	63.27	41.659			
9,200.00	8,892.80	9,444.77	8,950.76	31.38	33.94	89.756	22.76	2,669.77	2,635.89	2,572.50	63.39	41.585			
9,249.73	8,894.78	9,499.62	8,952.88	31.43	33.93	89.645	77.55	2,669.43	2,635.85	2,572.37	63.48	41.521			
9,300.00	8,894.61	9,549.89	8,952.79	31.48	33.92	89.645	127.82	2,669.12	2,635.82	2,572.24	63.58	41.459			
9,400.00	8,894.26	9,649.89	8,952.62	31.60	33.90	89.645	227.81	2,668.50	2,635.75	2,571.96	63.79	41.316			
9,500.00	8,893.91	9,749.89	8,952.44	31.75	33.89	89.645	327.81	2,667.89	2,635.69	2,571.63	64.06	41.144			
9,600.00	8,893.56	9,849.89	8,952.27	31.92	33.88	89.645	427.81	2,667.27	2,635.62	2,571.25	64.37	40.945			
9,700.00	8,893.21	9,949.89	8,952.09	32.11	33.88	89.645	527.81	2,666.66	2,635.56	2,570.83	64.73	40.719			
9,800.00	8,892.86	10,049.89	8,951.92	32.32	33.88	89.645	627.80	2,666.04	2,635.49	2,570.37	65.13	40.468			
9,900.00	8,892.51	10,149.89	8,951.74	32.56	33.89	89.645	727.80	2,665.42	2,635.43	2,569.86	65.57	40.193			
10,000.00	8,892.17	10,249.89	8,951.57	32.82	33.91	89.645	827.80	2,664.81	2,635.37	2,569.31	66.05	39.897			
10,100.00	8,891.82	10,349.89	8,951.40	33.09	33.96	89.645	927.80	2,664.19	2,635.30	2,568.72	66.58	39.580			
10,200.00	8,891.47	10,449.89	8,951.22	33.39	34.07	89.645	1,027.80	2,663.58	2,635.24	2,568.09	67.15	39.244			
10,300.00	8,891.12	10,549.89	8,951.05	33.71	34.26	89.645	1,127.79	2,662.96	2,635.17	2,567.41	67.76	38.891			
10,400.00	8,890.77	10,649.89	8,950.87	34.04	34.52	89.645	1,227.79	2,662.35	2,635.11	2,566.70	68.40	38.523			
10,500.00	8,890.42	10,749.89	8,950.70	34.40	34.83	89.645	1,327.79	2,661.73	2,635.04	2,565.95	69.09	38.140			
10,600.00	8,890.07	10,849.89	8,950.52	34.77	35.18	89.645	1,427.79	2,661.11	2,634.98	2,565.17	69.81	37.746			
10,700.00	8,889.72	10,949.89	8,950.35	35.16	35.54	89.645	1,527.78	2,660.50	2,634.91	2,564.35	70.56	37.341			
10,800.00	8,889.37	11,049.89	8,950.17	35.57	35.92	89.645	1,627.78	2,659.88	2,634.85	2,563.50	71.35	36.927			
10,900.00	8,889.02	11,149.89	8,950.00	35.99	36.32	89.645	1,727.78	2,659.27	2,634.78	2,562.61	72.18	36.505			
11,000.00	8,888.68	11,249.89	8,949.83	36.43	36.74	89.645	1,827.78	2,658.65	2,634.72	2,561.69	73.03	36.077			
11,100.00	8,888.33	11,349.89	8,949.65	36.89	37.18	89.645	1,927.78	2,658.03	2,634.66	2,560.74	73.92	35.644			
11,200.00	8,887.98	11,449.89	8,949.48	37.36	37.63	89.645	2,027.77	2,657.42	2,634.59	2,559.76	74.83	35.207			
11,300.00	8,887.63	11,549.89	8,949.30	37.84	38.09	89.645	2,127.77	2,656.80	2,634.53	2,558.75	75.77	34.768			
11,400.00	8,887.28	11,649.89	8,949.13	38.34	38.57	89.645	2,227.77	2,656.19	2,634.46	2,557.72	76.75	34.327			
11,500.00	8,886.93	11,749.89	8,948.95	38.85	39.06	89.645	2,327.77	2,655.57	2,634.40	2,556.65	77.74	33.886			
11,600.00	8,886.58	11,849.89	8,948.78	39.37	39.57	89.645	2,427.76	2,654.95	2,634.33	2,555.57	78.77	33.445			
11,700.00	8,886.23	11,949.89	8,948.60	39.90	40.09	89.645	2,527.76	2,654.34	2,634.27	2,554.45	79.82	33.005			
11,800.00	8,885.88	12,049.89	8,948.43	40.45	40.61	89.645	2,627.76	2,653.72	2,634.20	2,553.32	80.89	32.567			
11,900.00	8,885.53	12,149.89	8,948.26	41.01	41.16	89.645	2,727.76	2,653.11	2,634.14	2,552.16	81.98	32.131			
12,000.00	8,885.19	12,249.89	8,948.08	41.58	41.71	89.645	2,827.76	2,652.49	2,634.08	2,550.98	83.10	31.699			
12,100.00	8,884.84	12,349.89	8,947.91	42.15	42.27	89.645	2,927.75	2,651.87	2,634.01	2,549.78	84.23	31.270			
12,200.00	8,884.49	12,449.89	8,947.73	42.74	42.84	89.645	3,027.75	2,651.26	2,633.95	2,548.56	85.39	30.846			
12,300.00	8,884.14	12,549.89	8,947.56	43.34	43.42	89.645	3,127.75	2,650.64	2,633.88	2,547.31	86.57	30.426			
12,400.00	8,883.79	12,649.89	8,947.38	43.94	44.01	89.645	3,227.75	2,650.03	2,633.82	2,546.06	87.76	30.011			
12,500.00	8,883.44	12,749.89	8,947.21	44.56	44.61	89.645	3,327.74	2,649.41	2,633.75	2,544.78	88.97	29.601			
12,600.00	8,883.09	12,849.89	8,947.03	45.18	45.22	89.645	3,427.74	2,648.80	2,633.69	2,543.48	90.20	29.197			
12,700.00	8,882.74	12,949.89	8,946.86	45.81	45.84	89.645	3,527.74	2,648.18	2,633.62	2,542.17	91.45	28.798			
12,800.00	8,882.39	13,049.89	8,946.68	46.45	46.46	89.645	3,627.74	2,647.56	2,633.56	2,540.85	92.71	28.406			
12,900.00	8,882.04	13,149.89	8,946.51	47.10	47.10	89.645	3,727.74	2,646.95	2,633.50	2,539.51	93.99	28.019			
13,000.00	8,881.69	13,249.89	8,946.34	47.75	47.74	89.645	3,827.73	2,646.33	2,633.43	2,538.15	95.28	27.639			
13,100.00	8,881.35	13,349.89	8,946.16	48.41	48.38	89.645	3,927.73	2,645.72	2,633.37	2,536.78	96.59	27.265			
13,200.00	8,881.00	13,449.89	8,945.99	49.08	49.04	89.645	4,027.73	2,645.10	2,633.30	2,535.40	97.90	26.897			
13,300.00	8,880.65	13,549.89	8,945.81	49.75	49.70	89.645	4,127.73	2,644.48	2,633.24	2,534.00	99.23	26.535			
13,400.00	8,880.30	13,649.89	8,945.64	50.43	50.36	89.645	4,227.72	2,643.87	2,633.17	2,532.60	100.58	26.180			
13,500.00	8,879.95	13,749.89	8,945.46	51.11	51.04	89.645	4,327.72	2,643.25	2,633.11	2,531.18	101.93	25.832			
13,600.00	8,879.60	13,849.89	8,945.29	51.80	51.71	89.645	4,427.72	2,642.64	2,633.05	2,529.75	103.30	25.489			

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 115H
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 115H	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		
13,700.00	8,879.25	13,949.88	8,945.11	52.50	52.40	89.645	4,527.72	2,642.02	2,632.98	2,528.30	104.68	25.153			
13,800.00	8,878.90	14,049.88	8,944.94	53.20	53.09	89.645	4,627.72	2,641.40	2,632.92	2,526.85	106.07	24.824			
13,900.00	8,878.55	14,149.88	8,944.77	53.90	53.78	89.645	4,727.71	2,640.79	2,632.85	2,525.39	107.46	24.500			
14,000.00	8,878.20	14,249.88	8,944.59	54.61	54.48	89.645	4,827.71	2,640.17	2,632.79	2,523.92	108.87	24.183			
14,100.00	8,877.86	14,349.88	8,944.42	55.33	55.18	89.645	4,927.71	2,639.56	2,632.73	2,522.44	110.29	23.871			
14,200.00	8,877.51	14,449.88	8,944.24	56.04	55.89	89.645	5,027.71	2,638.94	2,632.66	2,520.95	111.71	23.566			
14,300.00	8,877.16	14,549.88	8,944.07	56.77	56.61	89.645	5,127.70	2,638.32	2,632.60	2,519.45	113.15	23.267			
14,400.00	8,876.81	14,649.88	8,943.89	57.49	57.32	89.645	5,227.70	2,637.71	2,632.53	2,517.94	114.59	22.973			
14,500.00	8,876.46	14,749.88	8,943.72	58.22	58.04	89.645	5,327.70	2,637.09	2,632.47	2,516.43	116.04	22.685			
14,600.00	8,876.11	14,849.88	8,943.54	58.96	58.77	89.645	5,427.70	2,636.48	2,632.41	2,514.90	117.50	22.403			
14,700.00	8,875.76	14,949.88	8,943.37	59.70	59.50	89.645	5,527.70	2,635.86	2,632.34	2,513.37	118.97	22.127			
14,800.00	8,875.41	15,049.88	8,943.20	60.44	60.23	89.645	5,627.69	2,635.25	2,632.28	2,511.84	120.44	21.856			
14,900.00	8,875.06	15,149.88	8,943.02	61.18	60.97	89.645	5,727.69	2,634.63	2,632.21	2,510.29	121.92	21.590			
15,000.00	8,874.71	15,249.88	8,942.85	61.93	61.71	89.645	5,827.69	2,634.01	2,632.15	2,508.74	123.41	21.329			
15,100.00	8,874.36	15,349.88	8,942.67	62.68	62.45	89.645	5,927.69	2,633.40	2,632.08	2,507.19	124.90	21.074			
15,200.00	8,874.02	15,449.88	8,942.50	63.43	63.19	89.645	6,027.68	2,632.78	2,632.02	2,505.62	126.40	20.823			
15,300.00	8,873.67	15,549.88	8,942.32	64.19	63.94	89.644	6,127.68	2,632.17	2,631.96	2,504.05	127.90	20.578			
15,400.00	8,873.32	15,649.88	8,942.15	64.95	64.69	89.644	6,227.68	2,631.55	2,631.89	2,502.48	129.41	20.337			
15,500.00	8,872.97	15,749.88	8,941.97	65.71	65.45	89.644	6,327.68	2,630.93	2,631.83	2,500.90	130.93	20.101			
15,600.00	8,872.62	15,849.88	8,941.80	66.48	66.21	89.644	6,427.68	2,630.32	2,631.76	2,499.31	132.45	19.870			
15,700.00	8,872.27	15,949.88	8,941.62	67.24	66.97	89.644	6,527.67	2,629.70	2,631.70	2,497.72	133.98	19.643			
15,800.00	8,871.92	16,049.88	8,941.45	68.01	67.73	89.644	6,627.67	2,629.09	2,631.64	2,496.13	135.51	19.420			
15,900.00	8,871.57	16,149.88	8,941.28	68.79	68.49	89.644	6,727.67	2,628.47	2,631.57	2,494.53	137.05	19.202			
16,000.00	8,871.22	16,249.88	8,941.10	69.56	69.26	89.644	6,827.67	2,627.85	2,631.51	2,492.92	138.59	18.988			
16,100.00	8,870.87	16,349.88	8,940.93	70.34	70.03	89.644	6,927.66	2,627.24	2,631.45	2,491.31	140.13	18.778			
16,200.00	8,870.53	16,449.88	8,940.75	71.11	70.80	89.644	7,027.66	2,626.62	2,631.38	2,489.70	141.68	18.572			
16,300.00	8,870.18	16,549.88	8,940.58	71.90	71.58	89.644	7,127.66	2,626.01	2,631.32	2,488.08	143.24	18.370			
16,400.00	8,869.83	16,649.88	8,940.40	72.68	72.35	89.644	7,227.66	2,625.39	2,631.25	2,486.46	144.80	18.172			
16,500.00	8,869.48	16,749.88	8,940.23	73.46	73.13	89.644	7,327.66	2,624.77	2,631.19	2,484.83	146.36	17.978			
16,600.00	8,869.13	16,849.88	8,940.05	74.25	73.91	89.644	7,427.65	2,624.16	2,631.13	2,483.20	147.92	17.787			
16,700.00	8,868.78	16,949.88	8,939.88	75.04	74.70	89.644	7,527.65	2,623.54	2,631.06	2,481.57	149.49	17.600			
16,800.00	8,868.43	17,049.88	8,939.71	75.83	75.48	89.644	7,627.65	2,622.93	2,631.00	2,479.93	151.07	17.416			
16,900.00	8,868.08	17,149.88	8,939.53	76.62	76.27	89.644	7,727.65	2,622.31	2,630.93	2,478.29	152.64	17.236			
17,000.00	8,867.73	17,249.88	8,939.36	77.41	77.05	89.644	7,827.64	2,621.70	2,630.87	2,476.65	154.22	17.059			
17,100.00	8,867.38	17,349.88	8,939.18	78.21	77.84	89.644	7,927.64	2,621.08	2,630.81	2,475.00	155.81	16.885			
17,200.00	8,867.03	17,449.88	8,939.01	79.00	78.63	89.644	8,027.64	2,620.46	2,630.74	2,473.35	157.39	16.714			
17,300.00	8,866.69	17,549.88	8,938.83	79.80	79.43	89.644	8,127.64	2,619.85	2,630.68	2,471.69	158.98	16.547			
17,400.00	8,866.34	17,649.87	8,938.66	80.60	80.22	89.644	8,227.64	2,619.23	2,630.62	2,470.04	160.58	16.382			
17,500.00	8,865.99	17,749.87	8,938.48	81.40	81.02	89.644	8,327.63	2,618.62	2,630.55	2,468.38	162.17	16.221			
17,600.00	8,865.64	17,849.87	8,938.31	82.20	81.81	89.644	8,427.63	2,618.00	2,630.49	2,466.72	163.77	16.062			
17,700.00	8,865.29	17,949.87	8,938.14	83.01	82.61	89.644	8,527.63	2,617.38	2,630.42	2,465.05	165.37	15.906			
17,800.00	8,864.94	18,049.87	8,937.96	83.81	83.41	89.644	8,627.63	2,616.77	2,630.36	2,463.38	166.98	15.753			
17,900.00	8,864.59	18,149.87	8,937.79	84.62	84.21	89.644	8,727.62	2,616.15	2,630.30	2,461.71	168.58	15.602			
18,000.00	8,864.24	18,249.87	8,937.61	85.42	85.01	89.644	8,827.62	2,615.54	2,630.23	2,460.04	170.19	15.455			
18,100.00	8,863.89	18,349.87	8,937.44	86.23	85.82	89.644	8,927.62	2,614.92	2,630.17	2,458.37	171.80	15.309			
18,200.00	8,863.54	18,449.87	8,937.26	87.04	86.62	89.644	9,027.62	2,614.30	2,630.11	2,456.69	173.42	15.166			
18,300.00	8,863.20	18,549.87	8,937.09	87.85	87.43	89.644	9,127.62	2,613.69	2,630.04	2,455.01	175.03	15.026			
18,400.00	8,862.85	18,649.87	8,936.91	88.66	88.24	89.644	9,227.61	2,613.07	2,629.98	2,453.33	176.65	14.888			
18,500.00	8,862.50	18,749.87	8,936.74	89.47	89.05	89.644	9,327.61	2,612.46	2,629.91	2,451.64	178.27	14.752			
18,600.00	8,862.15	18,849.87	8,936.56	90.29	89.85	89.644	9,427.61	2,611.84	2,629.85	2,449.96	179.89	14.619			

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 115H
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 115H	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
Reference	Offset	Semi Major Axis	Reference	Offset	Azimuth	Offset Wellbore Centre	Distance	Rule Assigned:							
Measured	Vertical	Measured	Vertical	Reference	Offset	from North	+N/-S	+E/-W	Between	Between	Minimum	Separation	Warning		
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	Separation	Factor			
(usft)	(usft)	(usft)	(usft)						(usft)	(usft)	(usft)				
18,700.00	8,861.80	18,949.87	8,936.39	91.10	90.67	89.644	9,527.61	2,611.22	2,629.79	2,448.27	181.52	14.488			
18,800.00	8,861.45	19,049.87	8,936.22	91.92	91.48	89.644	9,627.60	2,610.61	2,629.72	2,446.58	183.15	14.359			
18,900.00	8,861.10	19,149.87	8,936.04	92.74	92.29	89.644	9,727.60	2,609.99	2,629.66	2,444.89	184.77	14.232			
19,000.00	8,860.75	19,249.87	8,935.87	93.55	93.10	89.644	9,827.60	2,609.38	2,629.60	2,443.19	186.40	14.107			
19,100.00	8,860.40	19,349.87	8,935.69	94.37	93.92	89.644	9,927.60	2,608.76	2,629.53	2,441.50	188.04	13.984			
19,175.37	8,860.14	19,425.24	8,935.56	94.99	94.53	89.644	10,002.96	2,608.30	2,629.49	2,440.22	189.27	13.893 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 115H
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 115H	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	91.230	-25.00	1,164.34	1,164.61						
100.00	100.00	102.00	100.00	0.26	0.27	91.230	-25.00	1,164.34	1,164.61	1,164.07	0.53	2,180.411			
200.00	200.00	202.00	200.00	0.62	0.63	91.230	-25.00	1,164.34	1,164.61	1,163.36	1.25	930.893			
300.00	300.00	302.00	300.00	0.98	0.99	91.230	-25.00	1,164.34	1,164.61	1,162.64	1.97	591.770			
400.00	400.00	402.00	400.00	1.34	1.35	91.230	-25.00	1,164.34	1,164.61	1,161.92	2.68	433.754			
500.00	500.00	502.00	500.00	1.70	1.70	91.230	-25.00	1,164.34	1,164.61	1,161.21	3.40	342.341			
600.00	600.00	602.00	600.00	2.06	2.06	91.230	-25.00	1,164.34	1,164.61	1,160.49	4.12	282.752			
700.00	700.00	702.00	700.00	2.41	2.42	91.230	-25.00	1,164.34	1,164.61	1,159.77	4.84	240.832			
800.00	800.00	802.00	800.00	2.77	2.78	91.230	-25.00	1,164.34	1,164.61	1,159.06	5.55	209.736			
900.00	900.00	902.00	900.00	3.13	3.14	91.230	-25.00	1,164.34	1,164.61	1,158.34	6.27	185.753			
1,000.00	1,000.00	1,002.00	1,000.00	3.49	3.50	91.230	-25.00	1,164.34	1,164.61	1,157.62	6.99	166.691			
1,100.00	1,100.00	1,102.00	1,100.00	3.85	3.86	91.230	-25.00	1,164.34	1,164.61	1,156.91	7.70	151.178			
1,165.99	1,165.99	1,167.99	1,165.99	4.08	4.09	91.230	-25.00	1,164.34	1,164.61	1,156.43	8.18	142.431 CC			
1,200.00	1,200.00	1,200.00	1,198.00	4.21	4.21	91.230	-25.00	1,164.34	1,164.61	1,156.20	8.41	138.425			
1,300.00	1,300.00	1,295.79	1,293.78	4.57	4.53	91.267	-25.76	1,164.58	1,164.88	1,155.78	9.10	128.035 ES			
1,400.00	1,400.00	1,389.65	1,387.61	4.92	4.84	91.376	-28.00	1,165.28	1,165.68	1,155.91	9.76	119.392			
1,500.00	1,500.00	1,483.41	1,481.29	5.28	5.15	91.556	-31.69	1,166.43	1,167.01	1,156.58	10.43	111.880			
1,600.00	1,599.99	1,577.06	1,574.79	5.62	5.46	91.764	-36.84	1,168.04	1,168.80	1,157.72	11.08	105.463			
1,700.00	1,699.96	1,670.64	1,668.11	5.95	5.78	91.956	-43.44	1,170.10	1,170.96	1,159.24	11.72	99.902			
1,800.00	1,799.86	1,764.14	1,761.23	6.28	6.10	92.133	-51.49	1,172.61	1,173.49	1,161.13	12.36	94.905			
1,900.00	1,899.68	1,860.36	1,856.92	6.61	6.43	92.302	-61.13	1,175.62	1,176.34	1,163.31	13.02	90.322			
2,000.00	1,999.37	1,960.29	1,956.27	6.94	6.77	92.415	-71.39	1,178.83	1,179.08	1,165.38	13.70	86.049			
2,100.00	2,098.90	2,060.26	2,055.65	7.28	7.12	92.444	-81.66	1,182.03	1,181.62	1,167.23	14.39	82.136			
2,100.18	2,099.08	2,060.44	2,055.84	7.28	7.12	92.444	-81.67	1,182.04	1,181.62	1,167.24	14.39	82.129			
2,200.00	2,198.36	2,160.23	2,155.04	7.62	7.47	92.431	-91.92	1,185.24	1,184.06	1,168.98	15.07	78.545			
2,300.00	2,297.81	2,260.20	2,254.43	7.96	7.82	92.418	-102.18	1,188.44	1,186.49	1,170.73	15.77	75.246			
2,400.00	2,397.26	2,360.17	2,353.82	8.30	8.17	92.405	-112.45	1,191.65	1,188.93	1,172.47	16.47	72.208			
2,500.00	2,496.71	2,460.14	2,453.21	8.65	8.53	92.392	-122.71	1,194.86	1,191.37	1,174.20	17.17	69.403			
2,600.00	2,596.16	2,560.11	2,552.60	9.00	8.88	92.379	-132.98	1,198.06	1,193.81	1,175.94	17.87	66.807			
2,700.00	2,695.62	2,660.08	2,651.99	9.35	9.24	92.367	-143.24	1,201.27	1,196.24	1,177.67	18.58	64.398			
2,800.00	2,795.07	2,760.05	2,751.38	9.70	9.60	92.354	-153.51	1,204.47	1,198.68	1,179.40	19.28	62.158			
2,900.00	2,894.52	2,860.02	2,850.77	10.05	9.96	92.341	-163.77	1,207.68	1,201.12	1,181.13	20.00	60.070			
3,000.00	2,993.97	2,959.99	2,950.16	10.41	10.32	92.329	-174.03	1,210.88	1,203.56	1,182.85	20.71	58.120			
3,100.00	3,093.42	3,059.96	3,049.55	10.76	10.68	92.316	-184.30	1,214.09	1,206.00	1,184.57	21.42	56.295			
3,200.00	3,192.87	3,159.93	3,148.94	11.12	11.04	92.304	-194.56	1,217.29	1,208.43	1,186.30	22.14	54.585			
3,300.00	3,292.33	3,259.90	3,248.33	11.48	11.40	92.291	-204.83	1,220.50	1,210.87	1,188.02	22.86	52.978			
3,400.00	3,391.78	3,359.87	3,347.72	11.83	11.76	92.279	-215.09	1,223.71	1,213.31	1,189.74	23.57	51.466			
3,500.00	3,491.23	3,459.84	3,447.11	12.19	12.12	92.267	-225.35	1,226.91	1,215.75	1,191.45	24.29	50.041			
3,600.00	3,590.68	3,559.81	3,546.50	12.55	12.48	92.254	-235.62	1,230.12	1,218.19	1,193.17	25.02	48.697			
3,700.00	3,690.13	3,659.78	3,645.89	12.91	12.85	92.242	-245.88	1,233.32	1,220.63	1,194.89	25.74	47.425			
3,800.00	3,789.59	3,759.75	3,745.28	13.27	13.21	92.230	-256.15	1,236.53	1,223.06	1,196.60	26.46	46.222			
3,900.00	3,889.04	3,859.72	3,844.67	13.63	13.58	92.218	-266.41	1,239.73	1,225.50	1,198.32	27.18	45.081			
4,000.00	3,988.49	3,959.69	3,944.06	13.99	13.94	92.206	-276.68	1,242.94	1,227.94	1,200.03	27.91	43.998			
4,100.00	4,087.94	4,059.66	4,043.45	14.35	14.30	92.194	-286.94	1,246.14	1,230.38	1,201.74	28.63	42.969			
4,200.00	4,187.39	4,159.63	4,142.84	14.72	14.67	92.182	-297.20	1,249.35	1,232.82	1,203.46	29.36	41.990			
4,300.00	4,286.84	4,259.60	4,242.23	15.08	15.03	92.170	-307.47	1,252.55	1,235.26	1,205.17	30.09	41.057			
4,400.00	4,386.30	4,359.57	4,341.62	15.44	15.40	92.158	-317.73	1,255.76	1,237.69	1,206.88	30.81	40.167			
4,500.00	4,485.75	4,459.54	4,441.01	15.80	15.76	92.146	-328.00	1,258.97	1,240.13	1,208.59	31.54	39.318			
4,600.00	4,585.20	4,559.51	4,540.40	16.17	16.13	92.134	-338.26	1,262.17	1,242.57	1,210.30	32.27	38.507			
4,700.00	4,684.65	4,659.48	4,639.79	16.53	16.50	92.123	-348.52	1,265.38	1,245.01	1,212.01	33.00	37.731			
4,800.00	4,784.10	4,759.45	4,739.18	16.89	16.86	92.111	-358.79	1,268.58	1,247.45	1,213.72	33.73	36.987			

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 115H
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 115H	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										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	4,883.56	4,859.42	4,838.57	17.26	17.23	92.099	-369.05	1,271.79	1,249.89	1,215.43	34.46	36.275		
5,000.00	4,983.01	4,959.39	4,937.96	17.62	17.59	92.088	-379.32	1,274.99	1,252.33	1,217.14	35.19	35.592		
5,100.00	5,082.46	5,059.36	5,037.35	17.99	17.96	92.076	-389.58	1,278.20	1,254.77	1,218.85	35.92	34.937		
5,200.00	5,181.91	5,159.33	5,136.74	18.35	18.33	92.065	-399.85	1,281.40	1,257.21	1,220.56	36.65	34.307		
5,300.00	5,281.36	5,259.30	5,236.13	18.72	18.69	92.053	-410.11	1,284.61	1,259.64	1,222.27	37.38	33.701		
5,400.00	5,380.82	5,359.27	5,335.52	19.08	19.06	92.042	-420.37	1,287.82	1,262.08	1,223.98	38.11	33.119		
5,500.00	5,480.27	5,459.24	5,434.91	19.45	19.43	92.030	-430.64	1,291.02	1,264.52	1,225.68	38.84	32.558		
5,600.00	5,579.72	5,559.21	5,534.30	19.81	19.79	92.019	-440.90	1,294.23	1,266.96	1,227.39	39.57	32.018		
5,700.00	5,679.17	5,659.18	5,633.69	20.18	20.16	92.008	-451.17	1,297.43	1,269.40	1,229.10	40.30	31.497		
5,800.00	5,778.62	5,759.15	5,733.08	20.54	20.53	91.996	-461.43	1,300.64	1,271.84	1,230.81	41.03	30.995		
5,900.00	5,878.07	5,859.12	5,832.47	20.91	20.90	91.985	-471.70	1,303.84	1,274.28	1,232.51	41.77	30.510		
6,000.00	5,977.53	5,963.12	5,935.90	21.27	21.28	91.981	-482.13	1,307.10	1,276.64	1,234.13	42.52	30.028		
6,100.00	6,076.98	6,071.07	6,043.42	21.64	21.67	91.921	-491.27	1,309.96	1,278.45	1,235.18	43.28	29.541		
6,200.00	6,176.43	6,178.92	6,151.01	22.01	22.06	91.774	-498.47	1,312.21	1,279.65	1,235.61	44.04	29.059		
6,300.00	6,275.88	6,286.61	6,258.55	22.37	22.45	91.541	-503.73	1,313.85	1,280.25	1,235.46	44.79	28.583		
6,400.00	6,375.33	6,394.05	6,365.94	22.74	22.83	91.223	-507.06	1,314.89	1,280.27	1,234.73	45.54	28.112		
6,425.72	6,400.92	6,421.64	6,393.52	22.83	22.93	91.128	-507.60	1,315.06	1,280.19	1,234.46	45.73	27.993		
6,500.00	6,474.83	6,501.22	6,473.10	23.10	23.21	90.841	-508.46	1,315.32	1,279.80	1,233.51	46.29	27.650		
6,600.00	6,574.49	6,602.61	6,574.49	23.47	23.55	90.473	-508.51	1,315.34	1,279.12	1,232.13	46.99	27.224		
6,700.00	6,674.27	6,702.40	6,674.27	23.83	23.87	90.180	-508.51	1,315.34	1,278.60	1,230.93	47.67	26.820		
6,800.00	6,774.15	6,802.28	6,774.15	24.19	24.20	89.965	-508.51	1,315.34	1,278.25	1,229.88	48.36	26.431		
6,900.00	6,874.11	6,902.23	6,874.11	24.55	24.53	89.828	-508.51	1,315.34	1,278.03	1,228.98	49.05	26.057		
7,000.00	6,974.10	7,002.22	6,974.10	24.90	24.86	89.769	-508.51	1,315.34	1,277.94	1,228.20	49.73	25.696		
7,025.90	7,000.00	7,028.13	7,000.00	24.99	24.95	89.766	-508.51	1,315.34	1,277.93	1,228.03	49.91	25.607		
7,100.00	7,074.10	7,102.22	7,074.10	25.23	25.19	89.766	-508.51	1,315.34	1,277.93	1,227.54	50.39	25.359		
7,200.00	7,174.10	7,202.22	7,174.10	25.56	25.52	89.766	-508.51	1,315.34	1,277.93	1,226.88	51.05	25.031		
7,300.00	7,274.10	7,302.22	7,274.10	25.89	25.85	89.766	-508.51	1,315.34	1,277.93	1,226.22	51.71	24.711		
7,400.00	7,374.10	7,402.22	7,374.10	26.22	26.19	89.766	-508.51	1,315.34	1,277.93	1,225.56	52.38	24.399		
7,500.00	7,474.10	7,502.22	7,474.10	26.55	26.52	89.766	-508.51	1,315.34	1,277.93	1,224.89	53.04	24.093		
7,600.00	7,574.10	7,602.22	7,574.10	26.88	26.85	89.766	-508.51	1,315.34	1,277.93	1,224.23	53.71	23.795		
7,700.00	7,674.10	7,702.22	7,674.10	27.21	27.19	89.766	-508.51	1,315.34	1,277.93	1,223.56	54.37	23.503		
7,800.00	7,774.10	7,802.22	7,774.10	27.55	27.52	89.766	-508.51	1,315.34	1,277.93	1,222.89	55.04	23.218		
7,900.00	7,874.10	7,902.22	7,874.10	27.88	27.86	89.766	-508.51	1,315.34	1,277.93	1,222.22	55.71	22.939		
8,000.00	7,974.10	8,002.22	7,974.10	28.21	28.19	89.766	-508.51	1,315.34	1,277.93	1,221.55	56.38	22.666		
8,100.00	8,074.10	8,102.22	8,074.10	28.55	28.53	89.766	-508.51	1,315.34	1,277.93	1,220.88	57.05	22.400		
8,200.00	8,174.10	8,202.22	8,174.10	28.88	28.87	89.766	-508.51	1,315.34	1,277.93	1,220.21	57.72	22.139		
8,300.00	8,274.10	8,302.22	8,274.10	29.22	29.21	89.766	-508.51	1,315.34	1,277.93	1,219.54	58.40	21.883		
8,347.73	8,321.83	8,349.96	8,321.83	29.38	29.37	89.766	-508.51	1,315.34	1,277.93	1,219.21	58.72	21.763		
8,350.00	8,324.10	8,352.22	8,324.10	29.39	29.38	89.766	-508.51	1,315.34	1,277.93	1,219.20	58.73	21.758		
8,400.00	8,374.02	8,402.15	8,374.02	29.55	29.54	89.873	-508.51	1,315.34	1,277.94	1,218.87	59.07	21.634		
8,450.00	8,423.55	8,451.68	8,423.55	29.72	29.71	90.174	-508.51	1,315.34	1,277.98	1,218.58	59.40	21.515		
8,500.00	8,472.31	8,500.44	8,472.31	29.87	29.88	90.668	-508.51	1,315.34	1,278.12	1,218.40	59.72	21.402		
8,550.00	8,519.92	8,548.05	8,519.92	30.03	30.04	91.350	-508.51	1,315.34	1,278.47	1,218.44	60.03	21.296		
8,600.00	8,566.02	8,594.15	8,566.02	30.18	30.20	92.214	-508.51	1,315.34	1,279.18	1,218.84	60.33	21.202		
8,650.00	8,610.27	8,638.39	8,610.27	30.32	30.35	93.254	-508.51	1,315.34	1,280.41	1,219.79	60.62	21.122		
8,700.00	8,652.32	8,680.44	8,652.32	30.45	30.49	94.459	-508.51	1,315.34	1,282.38	1,221.49	60.89	21.060		
8,750.00	8,691.85	8,719.98	8,691.85	30.58	30.62	95.818	-508.51	1,315.34	1,285.29	1,224.14	61.14	21.021		
8,800.00	8,728.57	8,756.70	8,728.57	30.70	30.75	97.316	-508.51	1,315.34	1,289.35	1,227.97	61.38	21.006		
8,850.00	8,762.19	8,790.32	8,762.19	30.81	30.86	98.939	-508.51	1,315.34	1,294.78	1,233.18	61.59	21.021		
8,900.00	8,792.47	8,820.59	8,792.47	30.91	30.97	100.667	-508.51	1,315.34	1,301.77	1,239.98	61.79	21.068		

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 115H
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 115H	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)	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		
8,950.00	8,819.16	8,847.28	8,819.16	31.01	31.06	102.481	-508.51	1,315.34	1,310.47	1,248.51	61.96	21.151			
9,000.00	8,842.06	8,870.18	8,842.06	31.10	31.13	104.361	-508.51	1,315.34	1,321.02	1,258.92	62.11	21.271			
9,050.00	8,861.01	8,889.13	8,861.01	31.18	31.20	106.284	-508.51	1,315.34	1,333.49	1,271.26	62.23	21.429			
9,100.00	8,875.85	8,903.97	8,875.85	31.25	31.25	108.228	-508.51	1,315.34	1,347.90	1,285.58	62.32	21.627			
9,150.00	8,886.47	8,914.60	8,886.47	31.32	31.29	110.173	-508.51	1,315.34	1,364.22	1,301.82	62.40	21.864			
9,200.00	8,892.80	8,920.93	8,892.80	31.38	31.31	112.099	-508.51	1,315.34	1,382.35	1,319.91	62.44	22.138			
9,249.73	8,894.78	8,922.91	8,894.78	31.43	31.31	113.976	-508.51	1,315.34	1,402.05	1,339.58	62.46	22.446			
9,300.00	8,894.61	8,922.73	8,894.61	31.48	31.31	115.821	-508.51	1,315.34	1,423.46	1,360.99	62.47	22.785			
9,400.00	8,894.26	8,922.39	8,894.26	31.60	31.31	119.321	-508.51	1,315.34	1,470.25	1,407.75	62.50	23.522			
9,500.00	8,893.91	8,922.04	8,893.91	31.75	31.31	122.595	-508.51	1,315.34	1,522.18	1,459.64	62.54	24.339			
9,600.00	8,893.56	10,445.11	9,740.30	31.92	34.69	89.843	415.09	1,347.90	1,564.49	1,505.78	58.71	26.647			
9,700.00	8,893.21	10,545.11	9,740.82	32.11	34.86	89.843	515.08	1,347.29	1,564.91	1,505.89	59.02	26.515			
9,800.00	8,892.86	10,645.11	9,741.34	32.32	35.05	89.843	615.07	1,346.68	1,565.33	1,505.96	59.37	26.367			
9,900.00	8,892.51	10,745.10	9,741.87	32.56	35.27	89.843	715.07	1,346.06	1,565.75	1,506.00	59.75	26.205			
10,000.00	8,892.17	10,845.10	9,742.39	32.82	35.50	89.844	815.06	1,345.45	1,566.17	1,506.00	60.17	26.029			
10,100.00	8,891.82	10,945.09	9,742.91	33.09	35.75	89.844	915.05	1,344.84	1,566.59	1,505.96	60.63	25.840			
10,200.00	8,891.47	11,045.09	9,743.44	33.39	36.02	89.844	1,015.05	1,344.23	1,567.01	1,505.89	61.12	25.640			
10,300.00	8,891.12	11,145.09	9,743.96	33.71	36.31	89.844	1,115.04	1,343.62	1,567.43	1,505.79	61.64	25.428			
10,400.00	8,890.77	11,245.08	9,744.48	34.04	36.62	89.844	1,215.03	1,343.01	1,567.85	1,505.65	62.20	25.207			
10,500.00	8,890.42	11,345.08	9,745.01	34.40	36.94	89.845	1,315.02	1,342.40	1,568.27	1,505.48	62.79	24.977			
10,600.00	8,890.07	11,445.08	9,745.53	34.77	37.28	89.845	1,415.02	1,341.78	1,568.69	1,505.28	63.41	24.739			
10,700.00	8,889.72	11,545.07	9,746.06	35.16	37.64	89.845	1,515.01	1,341.17	1,569.12	1,505.06	64.06	24.495			
10,800.00	8,889.37	11,645.07	9,746.58	35.57	38.02	89.845	1,615.00	1,340.56	1,569.54	1,504.80	64.74	24.244			
10,900.00	8,889.02	11,745.06	9,747.10	35.99	38.41	89.845	1,715.00	1,339.95	1,569.96	1,504.51	65.45	23.988			
11,000.00	8,888.68	11,845.06	9,747.63	36.43	38.82	89.846	1,814.99	1,339.34	1,570.39	1,504.20	66.18	23.727			
11,100.00	8,888.33	11,945.06	9,748.15	36.89	39.24	89.846	1,914.98	1,338.73	1,570.81	1,503.86	66.95	23.464			
11,200.00	8,887.98	12,045.05	9,748.67	37.36	39.67	89.846	2,014.98	1,338.12	1,571.23	1,503.50	67.73	23.197			
11,300.00	8,887.63	12,145.05	9,749.20	37.84	40.12	89.846	2,114.97	1,337.50	1,571.66	1,503.11	68.55	22.928			
11,400.00	8,887.28	12,245.05	9,749.72	38.34	40.59	89.846	2,214.96	1,336.89	1,572.08	1,502.70	69.38	22.658			
11,500.00	8,886.93	12,345.04	9,750.24	38.85	41.07	89.847	2,314.95	1,336.28	1,572.51	1,502.27	70.24	22.387			
11,600.00	8,886.58	12,445.04	9,750.77	39.37	41.55	89.847	2,414.95	1,335.67	1,572.93	1,501.81	71.12	22.116			
11,700.00	8,886.23	12,545.03	9,751.29	39.90	42.06	89.847	2,514.94	1,335.06	1,573.36	1,501.34	72.02	21.845			
11,800.00	8,885.88	12,645.03	9,751.81	40.45	42.57	89.847	2,614.93	1,334.45	1,573.79	1,500.84	72.94	21.575			
11,900.00	8,885.53	12,745.03	9,752.34	41.01	43.09	89.848	2,714.93	1,333.84	1,574.21	1,500.33	73.89	21.306			
12,000.00	8,885.19	12,845.02	9,752.86	41.58	43.63	89.848	2,814.92	1,333.22	1,574.64	1,499.79	74.85	21.039			
12,100.00	8,884.84	12,945.02	9,753.39	42.15	44.18	89.848	2,914.91	1,332.61	1,575.07	1,499.24	75.82	20.773			
12,200.00	8,884.49	13,045.01	9,753.91	42.74	44.73	89.848	3,014.90	1,332.00	1,575.50	1,498.68	76.82	20.510			
12,300.00	8,884.14	13,145.01	9,754.43	43.34	45.30	89.848	3,114.90	1,331.39	1,575.92	1,498.09	77.83	20.249			
12,400.00	8,883.79	13,245.01	9,754.96	43.94	45.87	89.849	3,214.89	1,330.78	1,576.35	1,497.50	78.86	19.990			
12,500.00	8,883.44	13,345.00	9,755.48	44.56	46.46	89.849	3,314.88	1,330.17	1,576.78	1,496.88	79.90	19.735			
12,600.00	8,883.09	13,445.00	9,756.00	45.18	47.05	89.849	3,414.88	1,329.56	1,577.21	1,496.26	80.95	19.483			
12,700.00	8,882.74	13,545.00	9,756.53	45.81	47.65	89.849	3,514.87	1,328.94	1,577.64	1,495.61	82.03	19.234			
12,800.00	8,882.39	13,644.99	9,757.05	46.45	48.26	89.849	3,614.86	1,328.33	1,578.07	1,494.96	83.11	18.988			
12,900.00	8,882.04	13,744.99	9,757.57	47.10	48.88	89.850	3,714.86	1,327.72	1,578.50	1,494.29	84.21	18.746			
13,000.00	8,881.69	13,844.98	9,758.10	47.75	49.50	89.850	3,814.85	1,327.11	1,578.93	1,493.62	85.32	18.507			
13,100.00	8,881.35	13,944.98	9,758.62	48.41	50.13	89.850	3,914.84	1,326.50	1,579.36	1,492.93	86.44	18.272			
13,200.00	8,881.00	14,044.98	9,759.14	49.08	50.77	89.850	4,014.83	1,325.89	1,579.79	1,492.23	87.57	18.041			
13,300.00	8,880.65	14,144.97	9,759.67	49.75	51.42	89.850	4,114.83	1,325.28	1,580.23	1,491.51	88.71	17.813			
13,400.00	8,880.30	14,244.97	9,760.19	50.43	52.07	89.851	4,214.82	1,324.66	1,580.66	1,490.79	89.87	17.589			
13,500.00	8,879.95	14,344.96	9,760.72	51.11	52.73	89.851	4,314.81	1,324.05	1,581.09	1,490.06	91.03	17.369			
13,600.00	8,879.60	14,444.96	9,761.24	51.80	53.39	89.851	4,414.81	1,323.44	1,581.52	1,489.32	92.20	17.153			

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 115H
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 115H	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		
13,700.00	8,879.25	14,544.96	9,761.76	52.50	54.06	89.851	4,514.80	1,322.83	1,581.96	1,488.57	93.38	16.940			
13,800.00	8,878.90	14,644.95	9,762.29	53.20	54.74	89.852	4,614.79	1,322.22	1,582.39	1,487.82	94.58	16.732			
13,900.00	8,878.55	14,744.95	9,762.81	53.90	55.42	89.852	4,714.78	1,321.61	1,582.83	1,487.05	95.77	16.527			
14,000.00	8,878.20	14,844.95	9,763.33	54.61	56.10	89.852	4,814.78	1,321.00	1,583.26	1,486.28	96.98	16.325			
14,100.00	8,877.86	14,944.94	9,763.86	55.33	56.79	89.852	4,914.77	1,320.38	1,583.69	1,485.50	98.20	16.128			
14,200.00	8,877.51	15,044.94	9,764.38	56.04	57.49	89.852	5,014.76	1,319.77	1,584.13	1,484.71	99.42	15.934			
14,300.00	8,877.16	15,144.93	9,764.90	56.77	58.19	89.853	5,114.76	1,319.16	1,584.57	1,483.92	100.65	15.743			
14,400.00	8,876.81	15,244.93	9,765.43	57.49	58.89	89.853	5,214.75	1,318.55	1,585.00	1,483.12	101.89	15.557			
14,500.00	8,876.46	15,344.93	9,765.95	58.22	59.60	89.853	5,314.74	1,317.94	1,585.44	1,482.31	103.13	15.373			
14,600.00	8,876.11	15,444.92	9,766.47	58.96	60.31	89.853	5,414.74	1,317.33	1,585.87	1,481.50	104.38	15.193			
14,700.00	8,875.76	15,544.92	9,767.00	59.70	61.03	89.853	5,514.73	1,316.72	1,586.31	1,480.68	105.64	15.017			
14,800.00	8,875.41	15,644.91	9,767.52	60.44	61.75	89.854	5,614.72	1,316.10	1,586.75	1,479.85	106.90	14.844			
14,900.00	8,875.06	15,744.91	9,768.04	61.18	62.48	89.854	5,714.71	1,315.49	1,587.19	1,479.02	108.16	14.674			
15,000.00	8,874.71	15,844.91	9,768.57	61.93	63.20	89.854	5,814.71	1,314.88	1,587.63	1,478.19	109.44	14.507			
15,100.00	8,874.36	15,944.90	9,769.09	62.68	63.93	89.854	5,914.70	1,314.27	1,588.06	1,477.35	110.71	14.344			
15,200.00	8,874.02	16,044.90	9,769.62	63.43	64.67	89.854	6,014.69	1,313.66	1,588.50	1,476.51	112.00	14.183			
15,300.00	8,873.67	16,144.90	9,770.14	64.19	65.41	89.855	6,114.69	1,313.05	1,588.94	1,475.66	113.28	14.026			
15,400.00	8,873.32	16,244.89	9,770.66	64.95	66.15	89.855	6,214.68	1,312.44	1,589.38	1,474.80	114.58	13.872			
15,500.00	8,872.97	16,344.89	9,771.19	65.71	66.89	89.855	6,314.67	1,311.82	1,589.82	1,473.95	115.87	13.720			
15,600.00	8,872.62	16,444.88	9,771.71	66.48	67.64	89.855	6,414.66	1,311.21	1,590.26	1,473.09	117.17	13.572			
15,700.00	8,872.27	16,544.88	9,772.23	67.24	68.39	89.855	6,514.66	1,310.60	1,590.70	1,472.22	118.48	13.426			
15,800.00	8,871.92	16,644.88	9,772.76	68.01	69.14	89.856	6,614.65	1,309.99	1,591.14	1,471.36	119.79	13.283			
15,900.00	8,871.57	16,744.87	9,773.28	68.79	69.90	89.856	6,714.64	1,309.38	1,591.58	1,470.49	121.10	13.143			
16,000.00	8,871.22	16,844.87	9,773.80	69.56	70.65	89.856	6,814.64	1,308.77	1,592.03	1,469.61	122.42	13.005			
16,100.00	8,870.87	16,944.87	9,774.33	70.34	71.41	89.856	6,914.63	1,308.16	1,592.47	1,468.73	123.73	12.870			
16,200.00	8,870.53	17,044.86	9,774.85	71.11	72.18	89.857	7,014.62	1,307.55	1,592.91	1,467.85	125.06	12.737			
16,300.00	8,870.18	17,144.86	9,775.37	71.90	72.94	89.857	7,114.61	1,306.93	1,593.35	1,466.97	126.38	12.607			
16,400.00	8,869.83	17,244.85	9,775.90	72.68	73.71	89.857	7,214.61	1,306.32	1,593.80	1,466.08	127.71	12.480			
16,500.00	8,869.48	17,344.85	9,776.42	73.46	74.48	89.857	7,314.60	1,305.71	1,594.24	1,465.19	129.05	12.354			
16,600.00	8,869.13	17,444.85	9,776.95	74.25	75.25	89.857	7,414.59	1,305.10	1,594.68	1,464.30	130.38	12.231			
16,700.00	8,868.78	17,544.84	9,777.47	75.04	76.02	89.858	7,514.59	1,304.49	1,595.13	1,463.41	131.72	12.110			
16,800.00	8,868.43	17,644.84	9,777.99	75.83	76.80	89.858	7,614.58	1,303.88	1,595.57	1,462.51	133.06	11.992			
16,900.00	8,868.08	17,744.83	9,778.52	76.62	77.58	89.858	7,714.57	1,303.27	1,596.02	1,461.62	134.40	11.875			
17,000.00	8,867.73	17,844.83	9,779.04	77.41	78.36	89.858	7,814.57	1,302.65	1,596.46	1,460.72	135.75	11.761			
17,100.00	8,867.38	17,944.83	9,779.56	78.21	79.14	89.858	7,914.56	1,302.04	1,596.91	1,459.81	137.09	11.648			
17,200.00	8,867.03	18,044.82	9,780.09	79.00	79.92	89.859	8,014.55	1,301.43	1,597.35	1,458.91	138.45	11.538			
17,300.00	8,866.69	18,144.82	9,780.61	79.80	80.70	89.859	8,114.54	1,300.82	1,597.80	1,458.00	139.80	11.429			
17,400.00	8,866.34	18,244.82	9,781.13	80.60	81.49	89.859	8,214.54	1,300.21	1,598.25	1,457.10	141.15	11.323			
17,500.00	8,865.99	18,344.81	9,781.66	81.40	82.28	89.859	8,314.53	1,299.60	1,598.69	1,456.19	142.51	11.218			
17,600.00	8,865.64	18,444.81	9,782.18	82.20	83.07	89.859	8,414.52	1,298.99	1,599.14	1,455.28	143.87	11.115			
17,700.00	8,865.29	18,544.80	9,782.70	83.01	83.86	89.860	8,514.52	1,298.37	1,599.59	1,454.36	145.23	11.014			
17,800.00	8,864.94	18,644.80	9,783.23	83.81	84.65	89.860	8,614.51	1,297.76	1,600.04	1,453.45	146.59	10.915			
17,900.00	8,864.59	18,744.80	9,783.75	84.62	85.44	89.860	8,714.50	1,297.15	1,600.49	1,452.53	147.95	10.818			
18,000.00	8,864.24	18,844.79	9,784.27	85.42	86.24	89.860	8,814.49	1,296.54	1,600.94	1,451.62	149.32	10.722			
18,100.00	8,863.89	18,944.79	9,784.80	86.23	87.04	89.861	8,914.49	1,295.93	1,601.38	1,450.70	150.69	10.627			
18,200.00	8,863.54	19,044.78	9,785.32	87.04	87.83	89.861	9,014.48	1,295.32	1,601.83	1,449.78	152.05	10.535			
18,300.00	8,863.20	19,144.78	9,785.85	87.85	88.63	89.861	9,114.47	1,294.71	1,602.28	1,448.86	153.42	10.443			
18,400.00	8,862.85	19,244.78	9,786.37	88.66	89.43	89.861	9,214.47	1,294.09	1,602.73	1,447.94	154.80	10.354			
18,500.00	8,862.50	19,344.77	9,786.89	89.47	90.23	89.861	9,314.46	1,293.48	1,603.18	1,447.02	156.17	10.266			
18,600.00	8,862.15	19,444.77	9,787.42	90.29	91.04	89.862	9,414.45	1,292.87	1,603.64	1,446.09	157.54	10.179			

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 115H
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 115H	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	Reference	Offset	Azimuth	Offset Wellbore Centre	Distance	Rule Assigned:	Distance	Minimum	Separation	Warning	
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)			
18,700.00	8,861.80	19,544.77	9,787.94	91.10	91.84	89.862	9,514.45	1,292.26	1,604.09	1,445.17	158.92	10.094	
18,800.00	8,861.45	19,644.76	9,788.46	91.92	92.65	89.862	9,614.44	1,291.65	1,604.54	1,444.24	160.30	10.010	
18,900.00	8,861.10	19,744.76	9,788.99	92.74	93.45	89.862	9,714.43	1,291.04	1,604.99	1,443.32	161.67	9.927	
19,000.00	8,860.75	19,844.75	9,789.51	93.55	94.26	89.862	9,814.42	1,290.43	1,605.44	1,442.39	163.05	9.846	
19,100.00	8,860.40	19,944.75	9,790.03	94.37	95.07	89.863	9,914.42	1,289.81	1,605.90	1,441.46	164.43	9.766	
19,175.37	8,860.14	20,020.12	9,790.43	94.99	95.68	89.863	9,989.78	1,289.35	1,606.24	1,440.76	165.47	9.707 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 115H
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 115H	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		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	91.128	-25.00	1,269.34	1,269.59				
100.00	100.00	102.00	100.00	0.26	0.27	91.128	-25.00	1,269.34	1,269.59	1,269.05	0.53	2,376.954	
200.00	200.00	202.00	200.00	0.62	0.63	91.128	-25.00	1,269.34	1,269.59	1,268.34	1.25	1,014.803	
300.00	300.00	302.00	300.00	0.98	0.99	91.128	-25.00	1,269.34	1,269.59	1,267.62	1.97	645.112	
400.00	400.00	402.00	400.00	1.34	1.35	91.128	-25.00	1,269.34	1,269.59	1,266.90	2.68	472.852	
500.00	500.00	502.00	500.00	1.70	1.70	91.128	-25.00	1,269.34	1,269.59	1,266.18	3.40	373.200	
600.00	600.00	602.00	600.00	2.06	2.06	91.128	-25.00	1,269.34	1,269.59	1,265.47	4.12	308.239	
700.00	700.00	702.00	700.00	2.41	2.42	91.128	-25.00	1,269.34	1,269.59	1,264.75	4.84	262.540	
800.00	800.00	802.00	800.00	2.77	2.78	91.128	-25.00	1,269.34	1,269.59	1,264.03	5.55	228.642	
900.00	900.00	902.00	900.00	3.13	3.14	91.128	-25.00	1,269.34	1,269.59	1,263.32	6.27	202.497	
1,000.00	1,000.00	1,002.00	1,000.00	3.49	3.50	91.128	-25.00	1,269.34	1,269.59	1,262.60	6.99	181.717	
1,100.00	1,100.00	1,102.00	1,100.00	3.85	3.86	91.128	-25.00	1,269.34	1,269.59	1,261.88	7.70	164.805	
1,165.99	1,165.99	1,167.99	1,165.99	4.08	4.09	91.128	-25.00	1,269.34	1,269.59	1,261.41	8.18	155.270 CC	
1,200.00	1,200.00	1,200.00	1,198.00	4.21	4.21	91.128	-25.00	1,269.34	1,269.59	1,261.17	8.41	150.902 ES	
1,300.00	1,300.00	1,284.81	1,282.81	4.57	4.50	91.140	-25.27	1,269.91	1,270.28	1,261.21	9.06	140.138	
1,400.00	1,400.00	1,367.92	1,365.90	4.92	4.78	91.173	-26.04	1,271.57	1,272.29	1,262.59	9.70	131.144	
1,500.00	1,500.00	1,450.96	1,448.88	5.28	5.06	91.228	-27.32	1,274.32	1,275.64	1,265.30	10.34	123.409	
1,600.00	1,599.99	1,533.91	1,531.73	5.62	5.34	91.266	-29.11	1,278.15	1,280.22	1,269.27	10.95	116.882	
1,700.00	1,699.96	1,616.76	1,614.40	5.95	5.63	91.247	-31.41	1,283.07	1,285.97	1,274.42	11.55	111.306	
1,800.00	1,799.86	1,700.00	1,697.37	6.28	5.92	91.173	-34.22	1,289.10	1,292.87	1,280.71	12.16	106.339	
1,900.00	1,899.68	1,782.03	1,779.03	6.61	6.20	91.043	-37.49	1,296.11	1,300.91	1,288.15	12.76	101.956	
2,000.00	1,999.37	1,864.40	1,860.91	6.94	6.49	90.859	-41.27	1,304.21	1,310.11	1,296.74	13.36	98.028	
2,100.00	2,098.90	1,946.55	1,942.44	7.28	6.78	90.622	-45.54	1,313.35	1,320.45	1,306.48	13.97	94.521	
2,100.18	2,099.08	1,946.70	1,942.58	7.28	6.78	90.622	-45.55	1,313.37	1,320.47	1,306.50	13.97	94.515	
2,200.00	2,198.36	2,028.48	2,023.59	7.62	7.07	90.371	-50.29	1,323.52	1,332.02	1,317.45	14.58	91.389	
2,300.00	2,297.81	2,110.19	2,104.37	7.96	7.36	90.144	-55.51	1,334.71	1,344.90	1,329.72	15.18	88.592	
2,400.00	2,397.26	2,200.00	2,192.93	8.30	7.68	89.967	-61.82	1,348.22	1,359.11	1,343.28	15.83	85.880	
2,500.00	2,496.71	2,272.83	2,264.57	8.65	7.94	89.761	-67.36	1,360.09	1,374.53	1,358.14	16.39	83.871	
2,600.00	2,496.16	2,359.50	2,349.62	9.00	8.26	89.622	-74.42	1,375.21	1,391.18	1,374.16	17.02	81.740	
2,700.00	2,495.62	2,458.03	2,446.24	9.35	8.62	89.532	-82.56	1,392.67	1,408.13	1,390.42	17.71	79.493	
2,800.00	2,495.07	2,556.56	2,542.87	9.70	8.98	89.445	-90.71	1,410.12	1,425.08	1,406.67	18.41	77.403	
2,900.00	2,494.52	2,655.09	2,639.50	10.05	9.34	89.359	-98.86	1,427.57	1,442.03	1,422.92	19.11	75.457	
3,000.00	2,493.97	2,753.62	2,736.13	10.41	9.71	89.276	-107.00	1,445.03	1,458.99	1,439.18	19.81	73.640	
3,100.00	3,093.42	2,852.14	2,832.76	10.76	10.07	89.194	-115.15	1,462.48	1,475.95	1,455.43	20.52	71.940	
3,200.00	3,192.87	2,950.67	2,929.39	11.12	10.44	89.114	-123.30	1,479.94	1,492.91	1,471.69	21.22	70.347	
3,300.00	3,292.33	3,049.20	3,026.02	11.48	10.81	89.036	-131.44	1,497.39	1,509.88	1,487.95	21.93	68.852	
3,400.00	3,391.78	3,147.73	3,122.64	11.83	11.18	88.960	-139.59	1,514.84	1,526.84	1,504.21	22.64	67.445	
3,500.00	3,491.23	3,246.26	3,219.27	12.19	11.55	88.885	-147.74	1,532.30	1,543.82	1,520.47	23.35	66.120	
3,600.00	3,590.68	3,344.79	3,315.90	12.55	11.92	88.812	-155.88	1,549.75	1,560.79	1,536.73	24.06	64.870	
3,700.00	3,690.13	3,443.32	3,412.53	12.91	12.29	88.741	-164.03	1,567.21	1,577.76	1,552.99	24.77	63.689	
3,800.00	3,789.59	3,541.85	3,509.16	13.27	12.66	88.671	-172.18	1,584.66	1,594.74	1,569.25	25.49	62.572	
3,900.00	3,889.04	3,640.38	3,605.79	13.63	13.03	88.603	-180.33	1,602.12	1,611.72	1,585.52	26.20	61.513	
4,000.00	3,988.49	3,738.91	3,702.42	13.99	13.41	88.536	-188.47	1,619.57	1,628.70	1,601.79	26.92	60.508	
4,100.00	4,087.94	3,837.44	3,799.05	14.35	13.78	88.470	-196.62	1,637.02	1,645.69	1,618.05	27.63	59.554	
4,200.00	4,187.39	3,935.97	3,895.67	14.72	14.16	88.406	-204.77	1,654.48	1,662.67	1,634.32	28.35	58.646	
4,300.00	4,286.84	4,034.50	3,992.30	15.08	14.53	88.343	-212.91	1,671.93	1,679.66	1,650.59	29.07	57.782	
4,400.00	4,386.30	4,133.03	4,088.93	15.44	14.91	88.281	-221.06	1,689.39	1,696.65	1,666.86	29.79	56.958	
4,500.00	4,485.75	4,231.56	4,185.56	15.80	15.28	88.221	-229.21	1,706.84	1,713.64	1,683.14	30.51	56.172	
4,600.00	4,585.20	4,330.09	4,282.19	16.17	15.66	88.162	-237.35	1,724.29	1,730.64	1,699.41	31.23	55.421	
4,700.00	4,684.65	4,428.62	4,378.82	16.53	16.03	88.104	-245.50	1,741.75	1,747.63	1,715.68	31.95	54.703	
4,800.00	4,784.10	4,527.15	4,475.45	16.89	16.41	88.047	-253.65	1,759.20	1,764.63	1,731.96	32.67	54.016	

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 115H
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 115H	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: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
4,900.00	4,883.56	4,625.68	4,572.07	17.26	16.79	87.991	-261.79	1,776.66	1,781.63	1,748.24	33.39	53.358			
5,000.00	4,983.01	4,724.21	4,668.70	17.62	17.16	87.936	-269.94	1,794.11	1,798.63	1,764.52	34.11	52.726			
5,100.00	5,082.46	4,822.74	4,765.33	17.99	17.54	87.882	-278.09	1,811.57	1,815.63	1,780.80	34.83	52.121			
5,200.00	5,181.91	4,921.27	4,861.96	18.35	17.92	87.829	-286.23	1,829.02	1,832.63	1,797.08	35.56	51.539			
5,300.00	5,281.36	5,019.80	4,958.59	18.72	18.30	87.777	-294.38	1,846.47	1,849.64	1,813.36	36.28	50.981			
5,400.00	5,380.82	5,118.33	5,055.22	19.08	18.67	87.727	-302.53	1,863.93	1,866.65	1,829.64	37.00	50.443			
5,500.00	5,480.27	5,216.86	5,151.85	19.45	19.05	87.677	-310.68	1,881.38	1,883.65	1,845.93	37.73	49.926			
5,600.00	5,579.72	5,315.39	5,248.47	19.81	19.43	87.628	-318.82	1,898.84	1,900.66	1,862.21	38.45	49.428			
5,700.00	5,679.17	5,413.92	5,345.10	20.18	19.81	87.579	-326.97	1,916.29	1,917.67	1,878.50	39.18	48.947			
5,800.00	5,778.62	5,512.45	5,441.73	20.54	20.19	87.532	-335.12	1,933.74	1,934.69	1,894.78	39.90	48.484			
5,900.00	5,878.07	5,610.98	5,538.36	20.91	20.57	87.485	-343.26	1,951.20	1,951.70	1,911.07	40.63	48.037			
6,000.00	5,977.53	5,709.51	5,634.99	21.27	20.95	87.440	-351.41	1,968.65	1,968.71	1,927.36	41.35	47.606			
6,100.00	6,076.98	5,808.04	5,731.62	21.64	21.32	87.395	-359.56	1,986.11	1,985.73	1,943.65	42.08	47.189			
6,200.00	6,176.43	5,906.57	5,828.25	22.01	21.70	87.351	-367.70	2,003.56	2,002.75	1,959.94	42.81	46.786			
6,300.00	6,275.88	6,005.10	5,924.88	22.37	22.08	87.307	-375.85	2,021.02	2,019.77	1,976.23	43.53	46.396			
6,400.00	6,375.33	6,103.63	6,021.50	22.74	22.46	87.265	-384.00	2,038.47	2,036.78	1,992.52	44.26	46.019			
6,425.72	6,400.92	6,128.97	6,046.36	22.83	22.56	87.254	-386.09	2,042.96	2,041.16	1,996.72	44.45	45.924			
6,500.00	6,474.83	6,202.16	6,118.13	23.10	22.84	87.236	-392.14	2,055.92	2,053.82	2,008.84	44.99	45.655			
6,600.00	6,574.49	6,300.68	6,214.76	23.47	23.22	87.255	-400.29	2,073.38	2,070.93	2,025.22	45.71	45.307			
6,700.00	6,674.27	6,399.16	6,311.34	23.83	23.60	87.323	-408.43	2,090.82	2,088.11	2,041.68	46.43	44.973			
6,800.00	6,774.15	6,497.58	6,407.85	24.19	23.98	87.437	-416.57	2,108.26	2,105.35	2,058.20	47.15	44.655			
6,900.00	6,874.11	6,595.89	6,504.27	24.55	24.36	87.597	-424.70	2,125.67	2,122.66	2,074.80	47.86	44.351			
7,000.00	6,974.10	6,694.08	6,600.57	24.90	24.74	87.801	-432.82	2,143.07	2,140.06	2,091.49	48.57	44.061			
7,025.90	7,000.00	6,719.49	6,625.48	24.99	24.84	87.861	-434.92	2,147.57	2,144.58	2,095.83	48.75	43.991			
7,100.00	7,074.10	6,792.16	6,696.75	25.23	25.12	88.036	-440.93	2,160.44	2,157.53	2,108.27	49.26	43.802			
7,200.00	7,174.10	6,890.23	6,792.93	25.56	25.50	88.269	-449.04	2,177.81	2,175.03	2,125.09	49.94	43.554			
7,300.00	7,274.10	6,994.28	6,894.98	25.89	25.90	88.511	-457.63	2,196.22	2,192.56	2,141.90	50.66	43.283			
7,400.00	7,374.10	7,144.53	7,042.78	26.22	26.47	88.827	-469.04	2,220.68	2,208.71	2,157.09	51.62	42.786			
7,500.00	7,474.10	7,296.14	7,192.58	26.55	27.04	89.095	-478.90	2,241.79	2,222.55	2,169.97	52.57	42.276			
7,600.00	7,574.10	7,448.88	7,344.08	26.88	27.61	89.314	-487.13	2,259.42	2,234.03	2,180.53	53.50	41.757			
7,700.00	7,674.10	7,602.57	7,496.98	27.21	28.17	89.486	-493.68	2,273.45	2,243.13	2,188.72	54.41	41.229			
7,800.00	7,774.10	7,756.99	7,650.97	27.55	28.72	89.612	-498.51	2,283.81	2,249.81	2,194.53	55.29	40.693			
7,900.00	7,874.10	7,911.91	7,805.71	27.88	29.26	89.691	-501.59	2,290.42	2,254.07	2,197.93	56.14	40.149			
8,000.00	7,974.10	8,067.12	7,960.88	28.21	29.79	89.725	-502.91	2,293.23	2,255.88	2,198.92	56.96	39.603			
8,100.00	8,074.10	8,180.33	8,074.10	28.55	30.16	89.726	-502.96	2,293.34	2,255.95	2,198.29	57.66	39.127			
8,200.00	8,174.10	8,280.33	8,174.10	28.88	30.49	89.726	-502.96	2,293.34	2,255.95	2,197.63	58.32	38.681			
8,300.00	8,274.10	8,380.33	8,274.10	29.22	30.81	89.726	-502.96	2,293.34	2,255.95	2,196.96	58.99	38.244			
8,347.73	8,321.83	8,428.06	8,321.83	29.38	30.97	89.726	-502.96	2,293.34	2,255.95	2,196.64	59.31	38.039			
8,350.00	8,324.10	8,430.33	8,324.10	29.39	30.98	89.727	-502.96	2,293.34	2,255.95	2,196.63	59.32	38.029			
8,400.00	8,374.02	8,480.26	8,374.02	29.55	31.14	89.787	-502.96	2,293.34	2,255.95	2,196.30	59.65	37.819			
8,450.00	8,423.55	8,529.79	8,423.55	29.72	31.30	89.958	-502.96	2,293.34	2,255.97	2,196.00	59.97	37.615			
8,500.00	8,472.31	8,578.54	8,472.31	29.87	31.46	90.237	-502.96	2,293.34	2,256.05	2,195.76	60.29	37.421			
8,550.00	8,519.92	8,626.15	8,519.92	30.03	31.62	90.624	-502.96	2,293.34	2,256.25	2,195.66	60.59	37.237			
8,600.00	8,566.02	8,672.26	8,566.02	30.18	31.77	91.114	-502.96	2,293.34	2,256.65	2,195.77	60.88	37.066			
8,650.00	8,610.27	8,716.50	8,610.27	30.32	31.91	91.704	-502.96	2,293.34	2,257.35	2,196.19	61.16	36.910			
8,700.00	8,652.32	8,758.55	8,652.32	30.45	32.05	92.389	-502.96	2,293.34	2,258.46	2,197.04	61.42	36.772			
8,750.00	8,691.85	8,798.09	8,691.85	30.58	32.18	93.164	-502.96	2,293.34	2,260.11	2,198.45	61.66	36.654			
8,800.00	8,728.57	8,834.80	8,728.57	30.70	32.30	94.021	-502.96	2,293.34	2,262.42	2,200.53	61.88	36.558			
8,850.00	8,762.19	8,868.43	8,762.19	30.81	32.41	94.954	-502.96	2,293.34	2,265.52	2,203.43	62.09	36.487			
8,900.00	8,792.47	8,898.70	8,792.47	30.91	32.51	95.954	-502.96	2,293.34	2,269.51	2,207.24	62.28	36.443			

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 115H
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 115H	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: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
8,950.00	8,819.16	8,925.39	8,819.16	31.01	32.60	97.012	-502.96	2,293.34	2,274.51	2,212.07	62.44	36.427			
9,000.00	8,842.06	8,948.29	8,842.06	31.10	32.68	98.119	-502.96	2,293.34	2,280.60	2,218.02	62.58	36.442			
9,050.00	8,861.01	8,967.24	8,861.01	31.18	32.74	99.265	-502.96	2,293.34	2,287.85	2,225.14	62.70	36.487			
9,100.00	8,875.85	8,982.08	8,875.85	31.25	32.79	100.440	-502.96	2,293.34	2,296.27	2,233.47	62.80	36.563			
9,150.00	8,886.47	8,992.71	8,886.47	31.32	32.82	101.632	-502.96	2,293.34	2,305.88	2,243.00	62.88	36.672			
9,200.00	8,892.80	8,999.03	8,892.80	31.38	32.84	102.832	-502.96	2,293.34	2,316.65	2,253.72	62.93	36.812			
9,249.73	8,894.78	9,001.02	8,894.78	31.43	32.85	104.022	-502.96	2,293.34	2,328.45	2,265.49	62.96	36.980			
9,300.00	8,894.61	9,000.84	8,894.61	31.48	32.85	105.214	-502.96	2,293.34	2,341.41	2,278.42	62.99	37.172			
9,400.00	8,894.26	9,000.49	8,894.26	31.60	32.85	107.544	-502.96	2,293.34	2,370.14	2,307.08	63.05	37.589			
9,500.00	8,893.91	9,000.14	8,893.91	31.75	32.85	109.814	-502.96	2,293.34	2,402.69	2,339.55	63.14	38.055			
9,600.00	8,893.56	8,999.79	8,893.56	31.92	32.85	112.020	-502.96	2,293.34	2,438.91	2,375.67	63.24	38.568			
9,700.00	8,893.21	10,661.31	9,777.83	32.11	35.52	89.763	521.02	2,338.56	2,470.58	2,407.53	63.05	39.186			
9,800.00	8,892.86	10,761.30	9,778.35	32.32	35.64	89.763	621.01	2,337.95	2,470.83	2,407.43	63.40	38.972			
9,900.00	8,892.51	10,861.30	9,778.87	32.56	35.79	89.763	721.01	2,337.33	2,471.08	2,407.28	63.79	38.737			
10,000.00	8,892.17	10,961.29	9,779.40	32.82	35.99	89.763	821.00	2,336.72	2,471.33	2,407.10	64.22	38.480			
10,100.00	8,891.82	11,061.29	9,779.92	33.09	36.21	89.763	920.99	2,336.10	2,471.58	2,406.88	64.70	38.203			
10,200.00	8,891.47	11,161.29	9,780.44	33.39	36.46	89.764	1,020.98	2,335.49	2,471.83	2,406.62	65.20	37.909			
10,300.00	8,891.12	11,261.28	9,780.97	33.71	36.73	89.764	1,120.98	2,334.87	2,472.08	2,406.33	65.75	37.598			
10,400.00	8,890.77	11,361.28	9,781.49	34.04	37.02	89.764	1,220.97	2,334.26	2,472.33	2,406.00	66.33	37.271			
10,500.00	8,890.42	11,461.28	9,782.01	34.40	37.33	89.764	1,320.96	2,333.64	2,472.58	2,405.63	66.95	36.931			
10,600.00	8,890.07	11,561.27	9,782.54	34.77	37.66	89.764	1,420.96	2,333.03	2,472.84	2,405.23	67.60	36.579			
10,700.00	8,889.72	11,661.27	9,783.06	35.16	38.00	89.764	1,520.95	2,332.42	2,473.09	2,404.80	68.29	36.215			
10,800.00	8,889.37	11,761.26	9,783.59	35.57	38.37	89.764	1,620.94	2,331.80	2,473.34	2,404.33	69.01	35.842			
10,900.00	8,889.02	11,861.26	9,784.11	35.99	38.74	89.764	1,720.93	2,331.19	2,473.59	2,403.84	69.76	35.461			
11,000.00	8,888.68	11,961.26	9,784.63	36.43	39.14	89.764	1,820.93	2,330.57	2,473.85	2,403.31	70.53	35.073			
11,100.00	8,888.33	12,061.25	9,785.16	36.89	39.55	89.765	1,920.92	2,329.96	2,474.10	2,402.76	71.34	34.679			
11,200.00	8,887.98	12,161.25	9,785.68	37.36	39.97	89.765	2,020.91	2,329.34	2,474.35	2,402.17	72.18	34.280			
11,300.00	8,887.63	12,261.24	9,786.20	37.84	40.41	89.765	2,120.91	2,328.73	2,474.61	2,401.56	73.04	33.878			
11,400.00	8,887.28	12,361.24	9,786.73	38.34	40.86	89.765	2,220.90	2,328.11	2,474.86	2,400.93	73.93	33.474			
11,500.00	8,886.93	12,461.24	9,787.25	38.85	41.33	89.765	2,320.89	2,327.50	2,475.12	2,400.27	74.85	33.068			
11,600.00	8,886.58	12,561.23	9,787.77	39.37	41.80	89.765	2,420.88	2,326.89	2,475.37	2,399.58	75.79	32.661			
11,700.00	8,886.23	12,661.23	9,788.30	39.90	42.29	89.765	2,520.88	2,326.27	2,475.63	2,398.88	76.75	32.255			
11,800.00	8,885.88	12,761.23	9,788.82	40.45	42.80	89.765	2,620.87	2,325.66	2,475.88	2,398.14	77.74	31.849			
11,900.00	8,885.53	12,861.22	9,789.34	41.01	43.31	89.766	2,720.86	2,325.04	2,476.14	2,397.39	78.75	31.445			
12,000.00	8,885.19	12,961.22	9,789.87	41.58	43.83	89.766	2,820.86	2,324.43	2,476.40	2,396.62	79.77	31.043			
12,100.00	8,884.84	13,061.21	9,790.39	42.15	44.37	89.766	2,920.85	2,323.81	2,476.65	2,395.83	80.82	30.643			
12,200.00	8,884.49	13,161.21	9,790.91	42.74	44.91	89.766	3,020.84	2,323.20	2,476.91	2,395.02	81.89	30.247			
12,300.00	8,884.14	13,261.21	9,791.44	43.34	45.47	89.766	3,120.84	2,322.58	2,477.17	2,394.19	82.98	29.854			
12,400.00	8,883.79	13,361.20	9,791.96	43.94	46.03	89.766	3,220.83	2,321.97	2,477.42	2,393.34	84.08	29.465			
12,500.00	8,883.44	13,461.20	9,792.49	44.56	46.61	89.766	3,320.82	2,321.35	2,477.68	2,392.48	85.20	29.080			
12,600.00	8,883.09	13,561.19	9,793.01	45.18	47.19	89.766	3,420.81	2,320.74	2,477.94	2,391.60	86.34	28.700			
12,700.00	8,882.74	13,661.19	9,793.53	45.81	47.78	89.766	3,520.81	2,320.13	2,478.20	2,390.70	87.49	28.325			
12,800.00	8,882.39	13,761.19	9,794.06	46.45	48.38	89.767	3,620.80	2,319.51	2,478.45	2,389.79	88.66	27.955			
12,900.00	8,882.04	13,861.18	9,794.58	47.10	48.99	89.767	3,720.79	2,318.90	2,478.71	2,388.87	89.84	27.590			
13,000.00	8,881.69	13,961.18	9,795.10	47.75	49.61	89.767	3,820.79	2,318.28	2,478.97	2,387.93	91.04	27.230			
13,100.00	8,881.35	14,061.18	9,795.63	48.41	50.23	89.767	3,920.78	2,317.67	2,479.23	2,386.98	92.25	26.876			
13,200.00	8,881.00	14,161.17	9,796.15	49.08	50.86	89.767	4,020.77	2,317.05	2,479.49	2,386.02	93.47	26.527			
13,300.00	8,880.65	14,261.17	9,796.67	49.75	51.50	89.767	4,120.76	2,316.44	2,479.75	2,385.04	94.71	26.184			
13,400.00	8,880.30	14,361.16	9,797.20	50.43	52.14	89.767	4,220.76	2,315.82	2,480.01	2,384.06	95.95	25.846			
13,500.00	8,879.95	14,461.16	9,797.72	51.11	52.79	89.767	4,320.75	2,315.21	2,480.27	2,383.06	97.21	25.514			
13,600.00	8,879.60	14,561.16	9,798.24	51.80	53.44	89.768	4,420.74	2,314.60	2,480.53	2,382.05	98.48	25.188			

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 115H
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 115H	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		Distance Between Centres (usft)		Rule Assigned: Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)							
13,700.00	8,879.25	14,661.15	9,798.77	52.50	54.11	89.768	4,520.74	2,313.98	2,480.79	2,381.03		99.76	24.868		
13,800.00	8,878.90	14,761.15	9,799.29	53.20	54.77	89.768	4,620.73	2,313.37	2,481.05	2,380.01		101.05	24.553		
13,900.00	8,878.55	14,861.15	9,799.82	53.90	55.45	89.768	4,720.72	2,312.75	2,481.31	2,378.97		102.35	24.244		
14,000.00	8,878.20	14,961.14	9,800.34	54.61	56.12	89.768	4,820.71	2,312.14	2,481.58	2,377.92		103.66	23.941		
14,100.00	8,877.86	15,061.14	9,800.86	55.33	56.81	89.768	4,920.71	2,311.52	2,481.84	2,376.87		104.97	23.643		
14,200.00	8,877.51	15,161.13	9,801.39	56.04	57.50	89.768	5,020.70	2,310.91	2,482.10	2,375.80		106.30	23.350		
14,300.00	8,877.16	15,261.13	9,801.91	56.77	58.19	89.768	5,120.69	2,310.29	2,482.36	2,374.73		107.63	23.063		
14,400.00	8,876.81	15,361.13	9,802.43	57.49	58.89	89.768	5,220.69	2,309.68	2,482.63	2,373.65		108.97	22.782		
14,500.00	8,876.46	15,461.12	9,802.96	58.22	59.59	89.769	5,320.68	2,309.07	2,482.89	2,372.57		110.32	22.505		
14,600.00	8,876.11	15,561.12	9,803.48	58.96	60.29	89.769	5,420.67	2,308.45	2,483.15	2,371.47		111.68	22.234		
14,700.00	8,875.76	15,661.11	9,804.00	59.70	61.00	89.769	5,520.67	2,307.84	2,483.42	2,370.37		113.05	21.968		
14,800.00	8,875.41	15,761.11	9,804.53	60.44	61.72	89.769	5,620.66	2,307.22	2,483.68	2,369.26		114.42	21.707		
14,900.00	8,875.06	15,861.11	9,805.05	61.18	62.44	89.769	5,720.65	2,306.61	2,483.94	2,368.15		115.79	21.451		
15,000.00	8,874.71	15,961.10	9,805.57	61.93	63.16	89.769	5,820.64	2,305.99	2,484.21	2,367.03		117.18	21.200		
15,100.00	8,874.36	16,061.10	9,806.10	62.68	63.88	89.769	5,920.64	2,305.38	2,484.47	2,365.91		118.57	20.954		
15,200.00	8,874.02	16,161.10	9,806.62	63.43	64.61	89.769	6,020.63	2,304.76	2,484.74	2,364.78		119.96	20.713		
15,300.00	8,873.67	16,261.09	9,807.15	64.19	65.35	89.769	6,120.62	2,304.15	2,485.00	2,363.64		121.36	20.476		
15,400.00	8,873.32	16,361.09	9,807.67	64.95	66.08	89.770	6,220.62	2,303.53	2,485.27	2,362.50		122.77	20.243		
15,500.00	8,872.97	16,461.08	9,808.19	65.71	66.82	89.770	6,320.61	2,302.92	2,485.54	2,361.35		124.18	20.015		
15,600.00	8,872.62	16,561.08	9,808.72	66.48	67.56	89.770	6,420.60	2,302.31	2,485.80	2,360.20		125.60	19.792		
15,700.00	8,872.27	16,661.08	9,809.24	67.24	68.31	89.770	6,520.59	2,301.69	2,486.07	2,359.05		127.02	19.572		
15,800.00	8,871.92	16,761.07	9,809.76	68.01	69.05	89.770	6,620.59	2,301.08	2,486.34	2,357.89		128.45	19.357		
15,900.00	8,871.57	16,861.07	9,810.29	68.79	69.80	89.770	6,720.58	2,300.46	2,486.60	2,356.73		129.88	19.146		
16,000.00	8,871.22	16,961.06	9,810.81	69.56	70.56	89.770	6,820.57	2,299.85	2,486.87	2,355.56		131.31	18.939		
16,100.00	8,870.87	17,061.06	9,811.33	70.34	71.31	89.770	6,920.57	2,299.23	2,487.14	2,354.39		132.75	18.735		
16,200.00	8,870.53	17,161.06	9,811.86	71.11	72.07	89.771	7,020.56	2,298.62	2,487.41	2,353.21		134.20	18.536		
16,300.00	8,870.18	17,261.05	9,812.38	71.90	72.83	89.771	7,120.55	2,298.00	2,487.67	2,352.03		135.64	18.340		
16,400.00	8,869.83	17,361.05	9,812.90	72.68	73.59	89.771	7,220.54	2,297.39	2,487.94	2,350.85		137.09	18.148		
16,500.00	8,869.48	17,461.05	9,813.43	73.46	74.36	89.771	7,320.54	2,296.78	2,488.21	2,349.66		138.55	17.959		
16,600.00	8,869.13	17,561.04	9,813.95	74.25	75.13	89.771	7,420.53	2,296.16	2,488.48	2,348.47		140.01	17.774		
16,700.00	8,868.78	17,661.04	9,814.48	75.04	75.89	89.771	7,520.52	2,295.55	2,488.75	2,347.28		141.47	17.592		
16,800.00	8,868.43	17,761.03	9,815.00	75.83	76.67	89.771	7,620.52	2,294.93	2,489.02	2,346.09		142.93	17.414		
16,900.00	8,868.08	17,861.03	9,815.52	76.62	77.44	89.771	7,720.51	2,294.32	2,489.29	2,344.89		144.40	17.239		
17,000.00	8,867.73	17,961.03	9,816.05	77.41	78.21	89.771	7,820.50	2,293.70	2,489.56	2,343.69		145.87	17.067		
17,100.00	8,867.38	18,061.02	9,816.57	78.21	78.99	89.772	7,920.50	2,293.09	2,489.83	2,342.48		147.35	16.898		
17,200.00	8,867.03	18,161.02	9,817.09	79.00	79.77	89.772	8,020.49	2,292.47	2,490.10	2,341.28		148.82	16.732		
17,300.00	8,866.69	18,261.02	9,817.62	79.80	80.55	89.772	8,120.48	2,291.86	2,490.37	2,340.07		150.30	16.569		
17,400.00	8,866.34	18,361.01	9,818.14	80.60	81.33	89.772	8,220.47	2,291.25	2,490.64	2,338.86		151.79	16.409		
17,500.00	8,865.99	18,461.01	9,818.66	81.40	82.12	89.772	8,320.47	2,290.63	2,490.91	2,337.64		153.27	16.252		
17,600.00	8,865.64	18,561.00	9,819.19	82.20	82.90	89.772	8,420.46	2,290.02	2,491.19	2,336.43		154.76	16.097		
17,700.00	8,865.29	18,661.00	9,819.71	83.01	83.69	89.772	8,520.45	2,289.40	2,491.46	2,335.21		156.25	15.946		
17,800.00	8,864.94	18,761.00	9,820.23	83.81	84.48	89.772	8,620.45	2,288.79	2,491.73	2,333.99		157.74	15.796		
17,900.00	8,864.59	18,860.99	9,820.76	84.62	85.27	89.773	8,720.44	2,288.17	2,492.00	2,332.77		159.23	15.650		
18,000.00	8,864.24	18,960.99	9,821.28	85.42	86.06	89.773	8,820.43	2,287.56	2,492.28	2,331.54		160.73	15.506		
18,100.00	8,863.89	19,060.98	9,821.80	86.23	86.86	89.773	8,920.42	2,286.94	2,492.55	2,330.32		162.23	15.364		
18,200.00	8,863.54	19,160.98	9,822.33	87.04	87.65	89.773	9,020.42	2,286.33	2,492.82	2,329.09		163.73	15.225		
18,300.00	8,863.20	19,260.98	9,822.85	87.85	88.45	89.773	9,120.41	2,285.71	2,493.10	2,327.86		165.23	15.088		
18,400.00	8,862.85	19,360.97	9,823.38	88.66	89.24	89.773	9,220.40	2,285.10	2,493.37	2,326.63		166.74	14.954		
18,500.00	8,862.50	19,460.97	9,823.90	89.47	90.04	89.773	9,320.40	2,284.49	2,493.64	2,325.40		168.25	14.821		
18,600.00	8,862.15	19,560.97	9,824.42	90.29	90.84	89.773	9,420.39	2,283.87	2,493.92	2,324.16		169.75	14.691		

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 115H
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 115H	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	Reference	Offset	Azimuth	Offset Wellbore Centre	Distance	Rule Assigned:							
Measured	Vertical	Measured	Vertical	Reference	Offset	+N/-S	+E/-W	Between	Between	Minimum	Separation	Warning			
Depth	Depth	Depth	Depth	(usft)	(usft)	(usft)	(usft)	Centres	Ellipses	Separation	Factor				
(usft)	(usft)	(usft)	(usft)					(usft)	(usft)	(usft)					
18,700.00	8,861.80	19,660.96	9,824.95	91.10	91.64	89.773	9,520.38	2,283.26	2,494.19	2,322.93	171.26	14.563			
18,800.00	8,861.45	19,760.96	9,825.47	91.92	92.45	89.774	9,620.37	2,282.64	2,494.47	2,321.69	172.78	14.438			
18,900.00	8,861.10	19,860.95	9,825.99	92.74	93.25	89.774	9,720.37	2,282.03	2,494.74	2,320.45	174.29	14.314			
19,000.00	8,860.75	19,960.95	9,826.52	93.55	94.05	89.774	9,820.36	2,281.41	2,495.02	2,319.21	175.81	14.192			
19,100.00	8,860.40	20,060.95	9,827.04	94.37	94.86	89.774	9,920.35	2,280.80	2,495.30	2,317.97	177.32	14.072			
19,175.37	8,860.14	20,136.31	9,827.43	94.99	95.47	89.774	9,995.72	2,280.34	2,495.50	2,317.04	178.47	13.983 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 115H
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 115H	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: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.00	0.00	2.00	0.00	0.00	0.01	91.204	-25.00	1,189.34	1,189.60						
100.00	100.00	102.00	100.00	0.26	0.27	91.204	-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	91.204	-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	91.204	-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	91.204	-25.00	1,189.34	1,189.60	1,186.92	2.68	443.063			
465.99	465.99	467.99	465.99	1.58	1.58	91.204	-25.00	1,189.34	1,189.60	1,186.44	3.16	376.691 CC			
500.00	500.00	500.00	498.00	1.70	1.70	91.204	-25.00	1,189.34	1,189.60	1,186.21	3.39	350.427			
600.00	600.00	587.79	585.78	2.06	2.00	91.224	-25.43	1,189.86	1,190.21	1,186.16	4.06	293.474 ES			
700.00	700.00	673.81	671.79	2.41	2.29	91.284	-26.69	1,191.36	1,191.99	1,187.29	4.70	253.383			
800.00	800.00	759.76	757.67	2.77	2.58	91.381	-28.78	1,193.85	1,194.95	1,189.59	5.35	223.165			
900.00	900.00	840.43	838.22	3.13	2.86	91.504	-31.43	1,197.19	1,199.19	1,193.20	5.99	200.239			
1,000.00	1,000.00	916.37	913.98	3.49	3.13	91.629	-34.17	1,201.78	1,205.34	1,198.73	6.61	182.446			
1,100.00	1,100.00	1,000.00	997.27	3.85	3.42	91.772	-37.39	1,208.56	1,213.50	1,206.24	7.25	167.313			
1,200.00	1,200.00	1,067.54	1,064.40	4.21	3.67	91.892	-40.15	1,215.36	1,223.56	1,215.73	7.84	156.147			
1,300.00	1,300.00	1,142.64	1,138.90	4.57	3.94	92.029	-43.37	1,224.31	1,235.62	1,227.18	8.44	146.318			
1,400.00	1,400.00	1,217.34	1,212.81	4.92	4.21	92.168	-46.75	1,234.65	1,249.63	1,240.59	9.05	138.094			
1,500.00	1,500.00	1,300.00	1,294.32	5.28	4.51	92.326	-50.68	1,247.76	1,265.62	1,255.93	9.68	130.707			
1,600.00	1,599.99	1,365.40	1,358.60	5.62	4.75	92.413	-53.93	1,259.38	1,283.34	1,273.12	10.22	125.589			
1,700.00	1,699.96	1,438.72	1,430.40	5.95	5.02	92.439	-57.72	1,273.70	1,302.79	1,292.02	10.77	120.954			
1,800.00	1,799.86	1,500.00	1,490.20	6.28	5.25	92.368	-61.01	1,286.72	1,323.97	1,312.70	11.26	117.550			
1,900.00	1,899.68	1,583.69	1,571.49	6.61	5.56	92.271	-65.68	1,306.03	1,346.64	1,334.78	11.86	113.507			
2,000.00	1,999.37	1,655.24	1,640.64	6.94	5.84	92.083	-69.83	1,323.94	1,371.00	1,358.59	12.40	110.532			
2,100.00	2,098.90	1,738.59	1,720.82	7.28	6.16	91.855	-74.82	1,346.16	1,396.73	1,383.72	13.01	107.395			
2,100.18	2,099.08	1,738.77	1,720.99	7.28	6.16	91.854	-74.83	1,346.21	1,396.78	1,383.77	13.01	107.388			
2,200.00	2,198.36	1,835.04	1,813.54	7.62	6.53	91.627	-80.61	1,372.06	1,422.61	1,408.92	13.68	103.979			
2,300.00	2,297.81	1,931.48	1,906.26	7.96	6.91	91.407	-86.40	1,397.96	1,448.50	1,434.14	14.36	100.857			
2,400.00	2,397.26	2,027.92	1,998.98	8.30	7.29	91.195	-92.19	1,423.85	1,474.42	1,459.37	15.05	97.996			
2,500.00	2,496.71	2,124.37	2,091.70	8.65	7.68	90.990	-97.98	1,449.75	1,500.35	1,484.62	15.73	95.366			
2,600.00	2,596.16	2,220.81	2,184.42	9.00	8.06	90.792	-103.77	1,475.65	1,526.30	1,509.88	16.42	92.942			
2,700.00	2,695.62	2,317.25	2,277.14	9.35	8.45	90.601	-109.56	1,501.55	1,552.27	1,535.15	17.11	90.701			
2,800.00	2,795.07	2,413.69	2,369.86	9.70	8.84	90.416	-115.35	1,527.45	1,578.25	1,560.44	17.81	88.625			
2,900.00	2,894.52	2,510.14	2,462.58	10.05	9.23	90.238	-121.14	1,553.34	1,604.24	1,585.74	18.50	86.695			
3,000.00	2,993.97	2,606.58	2,555.30	10.41	9.62	90.065	-126.93	1,579.24	1,630.26	1,611.05	19.20	84.899			
3,100.00	3,093.42	2,703.02	2,648.02	10.76	10.01	89.897	-132.72	1,605.14	1,656.28	1,636.38	19.90	83.223			
3,200.00	3,192.87	2,799.47	2,740.74	11.12	10.40	89.735	-138.51	1,631.04	1,682.32	1,661.71	20.60	81.655			
3,300.00	3,292.33	2,895.91	2,833.46	11.48	10.79	89.577	-144.30	1,656.94	1,708.37	1,687.06	21.30	80.186			
3,400.00	3,391.78	2,992.35	2,926.18	11.83	11.18	89.425	-150.09	1,682.83	1,734.43	1,712.42	22.01	78.808			
3,500.00	3,491.23	3,088.79	3,018.90	12.19	11.58	89.276	-155.88	1,708.73	1,760.50	1,737.79	22.71	77.511			
3,600.00	3,590.68	3,185.24	3,111.62	12.55	11.97	89.133	-161.67	1,734.63	1,786.58	1,763.16	23.42	76.289			
3,700.00	3,690.13	3,281.68	3,204.34	12.91	12.37	88.993	-167.46	1,760.53	1,812.68	1,788.55	24.13	75.136			
3,800.00	3,789.59	3,378.12	3,297.06	13.27	12.76	88.857	-173.25	1,786.43	1,838.78	1,813.95	24.83	74.047			
3,900.00	3,889.04	3,474.57	3,389.78	13.63	13.16	88.725	-179.04	1,812.33	1,864.89	1,839.35	25.54	73.016			
4,000.00	3,988.49	3,571.01	3,482.50	13.99	13.55	88.597	-184.83	1,838.22	1,891.01	1,864.76	26.25	72.038			
4,100.00	4,087.94	3,667.45	3,575.22	14.35	13.95	88.472	-190.62	1,864.12	1,917.14	1,890.18	26.96	71.111			
4,200.00	4,187.39	3,763.89	3,667.94	14.72	14.35	88.351	-196.42	1,890.02	1,943.28	1,915.61	27.67	70.230			
4,300.00	4,286.84	3,860.34	3,760.66	15.08	14.74	88.233	-202.21	1,915.92	1,969.42	1,941.04	28.38	69.391			
4,400.00	4,386.30	3,956.78	3,853.38	15.44	15.14	88.118	-208.00	1,941.82	1,995.58	1,966.48	29.09	68.593			
4,500.00	4,485.75	4,053.22	3,946.10	15.80	15.54	88.006	-213.79	1,967.71	2,021.74	1,991.93	29.81	67.831			
4,600.00	4,585.20	4,149.67	4,038.82	16.17	15.93	87.897	-219.58	1,993.61	2,047.91	2,017.39	30.52	67.105			
4,700.00	4,684.65	4,246.11	4,131.54	16.53	16.33	87.790	-225.37	2,019.51	2,074.08	2,042.85	31.23	66.410			
4,800.00	4,784.10	4,342.55	4,224.26	16.89	16.73	87.687	-231.16	2,045.41	2,100.26	2,068.32	31.95	65.746			

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 115H
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 115H	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)			
4,900.00	4,883.56	4,438.99	4,316.98	17.26	17.13	87.585	-236.95	2,071.31	2,126.45	2,093.79	32.66	65.110	
5,000.00	4,983.01	4,535.44	4,409.70	17.62	17.53	87.487	-242.74	2,097.20	2,152.64	2,119.27	33.37	64.500	
5,100.00	5,082.46	4,631.88	4,502.42	17.99	17.93	87.390	-248.53	2,123.10	2,178.84	2,144.75	34.09	63.916	
5,200.00	5,181.91	4,728.32	4,595.14	18.35	18.32	87.296	-254.32	2,149.00	2,205.05	2,170.24	34.80	63.355	
5,300.00	5,281.36	4,824.77	4,687.86	18.72	18.72	87.204	-260.11	2,174.90	2,231.26	2,195.74	35.52	62.816	
5,400.00	5,380.82	4,921.21	4,780.58	19.08	19.12	87.115	-265.90	2,200.80	2,257.47	2,221.23	36.24	62.298	
5,500.00	5,480.27	5,017.65	4,873.30	19.45	19.52	87.027	-271.69	2,226.69	2,283.69	2,246.74	36.95	61.799	
5,600.00	5,579.72	5,114.09	4,966.02	19.81	19.92	86.941	-277.48	2,252.59	2,309.92	2,272.25	37.67	61.319	
5,700.00	5,679.17	5,210.54	5,058.74	20.18	20.32	86.858	-283.27	2,278.49	2,336.15	2,297.76	38.39	60.857	
5,800.00	5,778.62	5,306.98	5,151.46	20.54	20.72	86.776	-289.06	2,304.39	2,362.38	2,323.28	39.11	60.411	
5,900.00	5,878.07	5,403.42	5,244.18	20.91	21.12	86.696	-294.85	2,330.29	2,388.62	2,348.80	39.82	59.981	
6,000.00	5,977.53	5,499.87	5,336.90	21.27	21.52	86.618	-300.64	2,356.19	2,414.86	2,374.32	40.54	59.566	
6,100.00	6,076.98	5,596.31	5,429.62	21.64	21.92	86.541	-306.43	2,382.08	2,441.11	2,399.85	41.26	59.164	
6,200.00	6,176.43	5,692.75	5,522.34	22.01	22.31	86.466	-312.22	2,407.98	2,467.36	2,425.38	41.98	58.777	
6,300.00	6,275.88	5,789.19	5,615.06	22.37	22.71	86.393	-318.01	2,433.88	2,493.62	2,450.92	42.70	58.402	
6,400.00	6,375.33	5,885.64	5,707.78	22.74	23.11	86.321	-323.80	2,459.78	2,519.88	2,476.46	43.42	58.039	
6,425.72	6,400.92	5,910.44	5,731.63	22.83	23.22	86.303	-325.29	2,466.44	2,526.63	2,483.03	43.60	57.948	
6,500.00	6,474.83	5,982.09	5,800.51	23.10	23.51	86.262	-329.59	2,485.68	2,546.16	2,502.02	44.14	57.689	
6,600.00	6,574.49	6,078.55	5,893.25	23.47	23.91	86.243	-335.38	2,511.58	2,572.49	2,527.64	44.85	57.355	
6,700.00	6,674.27	6,175.01	5,985.98	23.83	24.31	86.264	-341.18	2,537.48	2,598.87	2,553.30	45.56	57.037	
6,800.00	6,774.15	6,271.42	6,078.66	24.19	24.71	86.324	-346.96	2,563.37	2,625.29	2,579.01	46.27	56.733	
6,900.00	6,874.11	6,367.75	6,171.28	24.55	25.11	86.421	-352.75	2,589.24	2,651.75	2,604.77	46.98	56.444	
7,000.00	6,974.10	6,463.99	6,263.80	24.90	25.51	86.556	-358.53	2,615.08	2,678.24	2,630.56	47.68	56.168	
7,025.90	7,000.00	6,488.90	6,287.75	24.99	25.62	86.596	-360.02	2,621.77	2,685.11	2,637.25	47.86	56.103	
7,100.00	7,074.10	6,560.13	6,356.24	25.23	25.91	86.715	-364.30	2,640.90	2,704.77	2,656.41	48.36	55.929	
7,200.00	7,174.10	6,656.27	6,448.66	25.56	26.31	86.873	-370.07	2,666.72	2,731.32	2,682.28	49.04	55.699	
7,300.00	7,274.10	6,752.41	6,541.09	25.89	26.71	87.027	-375.84	2,692.54	2,757.89	2,708.18	49.71	55.475	
7,400.00	7,374.10	6,848.55	6,633.52	26.22	27.11	87.179	-381.61	2,718.35	2,784.48	2,734.09	50.39	55.257	
7,500.00	7,474.10	6,944.69	6,725.95	26.55	27.51	87.328	-387.39	2,744.17	2,811.08	2,760.01	51.07	55.044	
7,600.00	7,574.10	7,040.83	6,818.38	26.88	27.91	87.474	-393.16	2,769.99	2,837.71	2,785.96	51.75	54.836	
7,700.00	7,674.10	7,136.97	6,910.81	27.21	28.30	87.617	-398.93	2,795.80	2,864.35	2,811.92	52.43	54.633	
7,800.00	7,774.10	7,233.11	7,003.23	27.55	28.70	87.757	-404.70	2,821.62	2,891.00	2,837.89	53.11	54.434	
7,900.00	7,874.10	7,329.25	7,095.66	27.88	29.10	87.896	-410.47	2,847.44	2,917.67	2,863.88	53.79	54.241	
8,000.00	7,974.10	7,425.39	7,188.09	28.21	29.50	88.031	-416.25	2,873.25	2,944.36	2,889.89	54.47	54.052	
8,100.00	8,074.10	7,521.53	7,280.52	28.55	29.90	88.164	-422.02	2,899.07	2,971.06	2,915.91	55.16	53.867	
8,200.00	8,174.10	7,617.67	7,372.95	28.88	30.30	88.295	-427.79	2,924.89	2,997.78	2,941.94	55.84	53.686	
8,300.00	8,274.10	7,713.81	7,465.38	29.22	30.70	88.424	-433.56	2,950.70	3,024.51	2,967.99	56.52	53.509	
8,347.73	8,321.83	7,759.70	7,509.50	29.38	30.89	88.484	-436.32	2,963.03	3,037.28	2,980.43	56.85	53.426	
8,350.00	8,324.10	7,761.88	7,511.59	29.39	30.90	88.487	-436.45	2,963.61	3,037.88	2,981.02	56.87	53.423	
8,400.00	8,374.02	7,809.73	7,557.60	29.55	31.10	88.596	-439.32	2,976.46	3,051.20	2,993.99	57.20	53.339	
8,450.00	8,423.55	7,856.94	7,602.98	29.72	31.29	88.788	-442.16	2,989.14	3,064.34	3,006.81	57.53	53.262	
8,500.00	8,472.31	7,903.13	7,647.39	29.87	31.49	89.059	-444.93	3,001.54	3,077.26	3,019.41	57.85	53.193	
8,550.00	8,519.92	7,947.97	7,690.50	30.03	31.67	89.408	-447.62	3,013.58	3,089.92	3,031.76	58.16	53.130	
8,600.00	8,566.02	7,991.11	7,731.97	30.18	31.85	89.830	-450.21	3,025.17	3,102.28	3,043.83	58.45	53.077	
8,650.00	8,610.27	8,032.21	7,771.49	30.32	32.02	90.322	-452.68	3,036.20	3,114.34	3,055.62	58.72	53.034	
8,700.00	8,652.32	8,070.98	7,808.76	30.45	32.18	90.879	-455.01	3,046.61	3,126.09	3,067.11	58.98	53.002	
8,750.00	8,691.85	8,107.11	7,843.49	30.58	32.33	91.498	-457.18	3,056.32	3,137.54	3,078.32	59.22	52.981	
8,800.00	8,728.57	8,140.32	7,875.42	30.70	32.47	92.172	-459.17	3,065.23	3,148.71	3,089.27	59.44	52.973	
8,850.00	8,762.19	8,170.37	7,904.31	30.81	32.60	92.896	-460.97	3,073.30	3,159.59	3,099.96	59.64	52.979	
8,900.00	8,792.47	8,197.03	7,929.94	30.91	32.71	93.665	-462.58	3,080.46	3,170.22	3,110.41	59.82	52.999	

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 115H
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 115H	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		
8,950.00	8,819.16	8,220.09	7,952.11	31.01	32.80	94.473	-463.96	3,086.65	3,180.60	3,120.63	59.97	53.034			
9,000.00	8,842.06	8,239.37	7,970.65	31.10	32.88	95.314	-465.12	3,091.83	3,190.73	3,130.62	60.11	53.083			
9,050.00	8,861.01	8,301.53	8,030.52	31.18	33.14	96.206	-468.76	3,108.14	3,200.54	3,140.04	60.49	52.908			
9,100.00	8,875.85	8,372.22	8,098.93	31.25	33.42	97.115	-472.65	3,125.53	3,209.87	3,148.96	60.91	52.697			
9,150.00	8,886.47	8,420.10	8,145.45	31.32	33.62	98.021	-475.13	3,136.60	3,218.89	3,157.69	61.20	52.599			
9,200.00	8,892.80	8,364.58	8,091.59	31.38	33.39	98.900	-472.18	3,123.42	3,227.55	3,166.62	60.93	52.969			
9,249.73	8,894.78	8,363.74	8,090.78	31.43	33.39	99.796	-472.13	3,123.22	3,236.12	3,175.16	60.96	53.083			
9,300.00	8,894.61	8,360.77	8,087.91	31.48	33.38	100.698	-471.97	3,122.50	3,245.00	3,184.02	60.99	53.208			
9,400.00	8,894.26	8,383.58	8,109.95	31.60	33.47	102.476	-473.25	3,128.20	3,265.20	3,203.99	61.21	53.343			
9,500.00	8,893.91	8,282.45	8,012.14	31.75	33.06	104.239	-467.65	3,103.15	3,288.01	3,227.22	60.79	54.092			
9,600.00	8,893.56	8,298.30	8,027.41	31.92	33.13	105.971	-468.58	3,107.31	3,313.62	3,252.59	61.03	54.295			
9,700.00	8,893.21	8,250.05	7,980.92	32.11	32.93	107.696	-465.76	3,094.70	3,341.94	3,281.01	60.94	54.844			
9,800.00	8,892.86	8,239.48	7,970.76	32.32	32.88	109.380	-465.12	3,091.86	3,372.93	3,311.85	61.07	55.227			
9,900.00	8,892.51	8,232.99	7,964.52	32.56	32.86	111.030	-464.73	3,090.12	3,406.56	3,345.30	61.25	55.614			
10,000.00	8,892.17	11,166.92	9,804.39	32.82	38.69	89.731	826.94	3,325.69	3,419.49	3,353.45	66.03	51.785			
10,100.00	8,891.82	11,266.91	9,804.91	33.09	38.70	89.731	926.93	3,325.08	3,419.65	3,353.15	66.50	51.420			
10,200.00	8,891.47	11,366.91	9,805.44	33.39	38.70	89.731	1,026.93	3,324.46	3,419.82	3,352.81	67.02	51.030			
10,300.00	8,891.12	11,466.91	9,805.96	33.71	38.71	89.731	1,126.92	3,323.85	3,419.99	3,352.43	67.57	50.617			
10,400.00	8,890.77	11,566.90	9,806.49	34.04	38.74	89.731	1,226.91	3,323.23	3,420.16	3,352.01	68.15	50.184			
10,500.00	8,890.42	11,666.90	9,807.01	34.40	38.79	89.731	1,326.91	3,322.62	3,420.33	3,351.55	68.78	49.732			
10,600.00	8,890.07	11,766.89	9,807.53	34.77	38.91	89.731	1,426.90	3,322.00	3,420.50	3,351.07	69.43	49.263			
10,700.00	8,889.72	11,866.89	9,808.06	35.16	39.13	89.732	1,526.89	3,321.39	3,420.67	3,350.54	70.13	48.779			
10,800.00	8,889.37	11,966.89	9,808.58	35.57	39.43	89.732	1,626.88	3,320.78	3,420.84	3,349.99	70.85	48.282			
10,900.00	8,889.02	12,066.88	9,809.10	35.99	39.78	89.732	1,726.88	3,320.16	3,421.01	3,349.40	71.61	47.774			
11,000.00	8,888.68	12,166.88	9,809.63	36.43	40.15	89.732	1,826.87	3,319.55	3,421.18	3,348.78	72.40	47.255			
11,100.00	8,888.33	12,266.88	9,810.15	36.89	40.55	89.732	1,926.86	3,318.93	3,421.35	3,348.13	73.22	46.729			
11,200.00	8,887.98	12,366.87	9,810.67	37.36	40.96	89.732	2,026.86	3,318.32	3,421.52	3,347.46	74.06	46.196			
11,300.00	8,887.63	12,466.87	9,811.20	37.84	41.39	89.732	2,126.85	3,317.70	3,421.69	3,346.75	74.94	45.659			
11,400.00	8,887.28	12,566.86	9,811.72	38.34	41.83	89.732	2,226.84	3,317.09	3,421.86	3,346.02	75.84	45.117			
11,500.00	8,886.93	12,666.86	9,812.24	38.85	42.29	89.732	2,326.84	3,316.47	3,422.03	3,345.26	76.77	44.573			
11,600.00	8,886.58	12,766.86	9,812.77	39.37	42.76	89.732	2,426.83	3,315.86	3,422.20	3,344.48	77.73	44.028			
11,700.00	8,886.23	12,866.85	9,813.29	39.90	43.24	89.732	2,526.82	3,315.25	3,422.38	3,343.67	78.71	43.483			
11,800.00	8,885.88	12,966.85	9,813.82	40.45	43.73	89.732	2,626.81	3,314.63	3,422.55	3,342.84	79.71	42.938			
11,900.00	8,885.53	13,066.85	9,814.34	41.01	44.24	89.733	2,726.81	3,314.02	3,422.72	3,341.99	80.73	42.395			
12,000.00	8,885.19	13,166.84	9,814.86	41.58	44.75	89.733	2,826.80	3,313.40	3,422.89	3,341.11	81.78	41.855			
12,100.00	8,884.84	13,266.84	9,815.39	42.15	45.28	89.733	2,926.79	3,312.79	3,423.06	3,340.22	82.85	41.318			
12,200.00	8,884.49	13,366.83	9,815.91	42.74	45.82	89.733	3,026.79	3,312.17	3,423.24	3,339.30	83.93	40.785			
12,300.00	8,884.14	13,466.83	9,816.43	43.34	46.36	89.733	3,126.78	3,311.56	3,423.41	3,338.37	85.04	40.256			
12,400.00	8,883.79	13,566.83	9,816.96	43.94	46.92	89.733	3,226.77	3,310.94	3,423.58	3,337.42	86.17	39.733			
12,500.00	8,883.44	13,666.82	9,817.48	44.56	47.49	89.733	3,326.76	3,310.33	3,423.76	3,336.45	87.31	39.215			
12,600.00	8,883.09	13,766.82	9,818.00	45.18	48.06	89.733	3,426.76	3,309.72	3,423.93	3,335.46	88.47	38.703			
12,700.00	8,882.74	13,866.81	9,818.53	45.81	48.64	89.733	3,526.75	3,309.10	3,424.10	3,334.46	89.64	38.197			
12,800.00	8,882.39	13,966.81	9,819.05	46.45	49.23	89.733	3,626.74	3,308.49	3,424.28	3,333.44	90.84	37.698			
12,900.00	8,882.04	14,066.81	9,819.57	47.10	49.83	89.733	3,726.74	3,307.87	3,424.45	3,332.41	92.04	37.205			
13,000.00	8,881.69	14,166.80	9,820.10	47.75	50.44	89.733	3,826.73	3,307.26	3,424.63	3,331.36	93.26	36.720			
13,100.00	8,881.35	14,266.80	9,820.62	48.41	51.06	89.734	3,926.72	3,306.64	3,424.80	3,330.30	94.50	36.242			
13,200.00	8,881.00	14,366.80	9,821.15	49.08	51.68	89.734	4,026.71	3,306.03	3,424.98	3,329.23	95.75	35.771			
13,300.00	8,880.65	14,466.79	9,821.67	49.75	52.31	89.734	4,126.71	3,305.42	3,425.15	3,328.14	97.01	35.307			
13,400.00	8,880.30	14,566.79	9,822.19	50.43	52.94	89.734	4,226.70	3,304.80	3,425.33	3,327.04	98.28	34.851			
13,500.00	8,879.95	14,666.78	9,822.72	51.11	53.58	89.734	4,326.69	3,304.19	3,425.50	3,325.93	99.57	34.403			
13,600.00	8,879.60	14,766.78	9,823.24	51.80	54.23	89.734	4,426.69	3,303.57	3,425.68	3,324.81	100.87	33.962			

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 115H
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 115H	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 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)			Offset Site Error:	Offset Well Error:
13,700.00	8,879.25	14,866.78	9,823.76	52.50	54.88	89.734	4,526.68	3,302.96	3,425.86	3,323.68	102.18	33.529	0.00 usft	0.00 usft
13,800.00	8,878.90	14,966.77	9,824.29	53.20	55.54	89.734	4,626.67	3,302.34	3,426.03	3,322.54	103.50	33.103		
13,900.00	8,878.55	15,066.77	9,824.81	53.90	56.21	89.734	4,726.67	3,301.73	3,426.21	3,321.38	104.82	32.685		
14,000.00	8,878.20	15,166.76	9,825.33	54.61	56.88	89.734	4,826.66	3,301.11	3,426.38	3,320.22	106.16	32.275		
14,100.00	8,877.86	15,266.76	9,825.86	55.33	57.55	89.734	4,926.65	3,300.50	3,426.56	3,319.05	107.51	31.872		
14,200.00	8,877.51	15,366.76	9,826.38	56.04	58.23	89.734	5,026.64	3,299.89	3,426.74	3,317.87	108.87	31.476		
14,300.00	8,877.16	15,466.75	9,826.90	56.77	58.92	89.734	5,126.64	3,299.27	3,426.92	3,316.68	110.24	31.087		
14,400.00	8,876.81	15,566.75	9,827.43	57.49	59.61	89.735	5,226.63	3,298.66	3,427.09	3,315.48	111.61	30.706		
14,500.00	8,876.46	15,666.75	9,827.95	58.22	60.30	89.735	5,326.62	3,298.04	3,427.27	3,314.28	112.99	30.332		
14,600.00	8,876.11	15,766.74	9,828.48	58.96	61.00	89.735	5,426.62	3,297.43	3,427.45	3,313.07	114.38	29.965		
14,700.00	8,875.76	15,866.74	9,829.00	59.70	61.71	89.735	5,526.61	3,296.81	3,427.63	3,311.85	115.78	29.605		
14,800.00	8,875.41	15,966.73	9,829.52	60.44	62.41	89.735	5,626.60	3,296.20	3,427.81	3,310.62	117.19	29.251		
14,900.00	8,875.06	16,066.73	9,830.05	61.18	63.12	89.735	5,726.59	3,295.59	3,427.98	3,309.39	118.60	28.904		
15,000.00	8,874.71	16,166.73	9,830.57	61.93	63.84	89.735	5,826.59	3,294.97	3,428.16	3,308.15	120.02	28.564		
15,100.00	8,874.36	16,266.72	9,831.09	62.68	64.56	89.735	5,926.58	3,294.36	3,428.34	3,306.90	121.44	28.231		
15,200.00	8,874.02	16,366.72	9,831.62	63.43	65.28	89.735	6,026.57	3,293.74	3,428.52	3,305.65	122.87	27.903		
15,300.00	8,873.67	16,466.71	9,832.14	64.19	66.01	89.735	6,126.57	3,293.13	3,428.70	3,304.39	124.31	27.582		
15,400.00	8,873.32	16,566.71	9,832.66	64.95	66.74	89.735	6,226.56	3,292.51	3,428.88	3,303.13	125.75	27.267		
15,500.00	8,872.97	16,666.71	9,833.19	65.71	67.47	89.735	6,326.55	3,291.90	3,429.06	3,301.86	127.20	26.958		
15,600.00	8,872.62	16,766.70	9,833.71	66.48	68.20	89.736	6,426.54	3,291.28	3,429.24	3,300.58	128.65	26.655		
15,700.00	8,872.27	16,866.70	9,834.24	67.24	68.94	89.736	6,526.54	3,290.67	3,429.42	3,299.31	130.11	26.357		
15,800.00	8,871.92	16,966.70	9,834.76	68.01	69.68	89.736	6,626.53	3,290.06	3,429.60	3,298.02	131.58	26.065		
15,900.00	8,871.57	17,066.69	9,835.28	68.79	70.43	89.736	6,726.52	3,289.44	3,429.78	3,296.73	133.05	25.779		
16,000.00	8,871.22	17,166.69	9,835.81	69.56	71.17	89.736	6,826.52	3,288.83	3,429.96	3,295.44	134.52	25.498		
16,100.00	8,870.87	17,266.68	9,836.33	70.34	71.92	89.736	6,926.51	3,288.21	3,430.14	3,294.14	136.00	25.222		
16,200.00	8,870.53	17,366.68	9,836.85	71.11	72.67	89.736	7,026.50	3,287.60	3,430.32	3,292.84	137.48	24.951		
16,300.00	8,870.18	17,466.68	9,837.38	71.90	73.43	89.736	7,126.50	3,286.98	3,430.51	3,291.54	138.97	24.685		
16,400.00	8,869.83	17,566.67	9,837.90	72.68	74.19	89.736	7,226.49	3,286.37	3,430.69	3,290.23	140.46	24.425		
16,500.00	8,869.48	17,666.67	9,838.42	73.46	74.95	89.736	7,326.48	3,285.75	3,430.87	3,288.92	141.95	24.169		
16,600.00	8,869.13	17,766.67	9,838.95	74.25	75.71	89.736	7,426.47	3,285.14	3,431.05	3,287.60	143.45	23.918		
16,700.00	8,868.78	17,866.66	9,839.47	75.04	76.47	89.736	7,526.47	3,284.53	3,431.23	3,286.28	144.96	23.671		
16,800.00	8,868.43	17,966.66	9,839.99	75.83	77.24	89.737	7,626.46	3,283.91	3,431.42	3,284.96	146.46	23.429		
16,900.00	8,868.08	18,066.65	9,840.52	76.62	78.01	89.737	7,726.45	3,283.30	3,431.60	3,283.63	147.97	23.191		
17,000.00	8,867.73	18,166.65	9,841.04	77.41	78.78	89.737	7,826.45	3,282.68	3,431.78	3,282.30	149.48	22.958		
17,100.00	8,867.38	18,266.65	9,841.57	78.21	79.55	89.737	7,926.44	3,282.07	3,431.97	3,280.97	151.00	22.728		
17,200.00	8,867.03	18,366.64	9,842.09	79.00	80.32	89.737	8,026.43	3,281.45	3,432.15	3,279.63	152.52	22.503		
17,300.00	8,866.69	18,466.64	9,842.61	79.80	81.10	89.737	8,126.42	3,280.84	3,432.33	3,278.29	154.04	22.282		
17,400.00	8,866.34	18,566.63	9,843.14	80.60	81.88	89.737	8,226.42	3,280.23	3,432.52	3,276.95	155.57	22.065		
17,500.00	8,865.99	18,666.63	9,843.66	81.40	82.65	89.737	8,326.41	3,279.61	3,432.70	3,275.61	157.09	21.851		
17,600.00	8,865.64	18,766.63	9,844.18	82.20	83.44	89.737	8,426.40	3,279.00	3,432.89	3,274.26	158.62	21.642		
17,700.00	8,865.29	18,866.62	9,844.71	83.01	84.22	89.737	8,526.40	3,278.38	3,433.07	3,272.91	160.16	21.436		
17,800.00	8,864.94	18,966.62	9,845.23	83.81	85.00	89.737	8,626.39	3,277.77	3,433.26	3,271.56	161.69	21.233		
17,900.00	8,864.59	19,066.62	9,845.75	84.62	85.79	89.737	8,726.38	3,277.15	3,433.44	3,270.21	163.23	21.034		
18,000.00	8,864.24	19,166.61	9,846.28	85.42	86.58	89.737	8,826.37	3,276.54	3,433.63	3,268.85	164.77	20.839		
18,100.00	8,863.89	19,266.61	9,846.80	86.23	87.37	89.738	8,926.37	3,275.92	3,433.81	3,267.50	166.32	20.646		
18,200.00	8,863.54	19,366.60	9,847.32	87.04	88.16	89.738	9,026.36	3,275.31	3,434.00	3,266.14	167.86	20.457		
18,300.00	8,863.20	19,466.60	9,847.85	87.85	88.95	89.738	9,126.35	3,274.70	3,434.18	3,264.77	169.41	20.272		
18,400.00	8,862.85	19,566.60	9,848.37	88.66	89.74	89.738	9,226.35	3,274.08	3,434.37	3,263.41	170.96	20.089		
18,500.00	8,862.50	19,666.59	9,848.90	89.47	90.54	89.738	9,326.34	3,273.47	3,434.55	3,262.04	172.51	19.909		
18,600.00	8,862.15	19,766.59	9,849.42	90.29	91.33	89.738	9,426.33	3,272.85	3,434.74	3,260.68	174.06	19.733		

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 115H
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 115H	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 Wellbore Centre			Rule Assigned:				Offset Well Error:	0.00 usft
Measured	Vertical	Measured	Vertical	Reference	Offset	Azimuth			Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			from North			Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)		+N/-S	+E/-W	(usft)	(usft)	(usft)		
18,700.00	8,861.80	19,866.58	9,849.94	91.10	92.13	89.738		9,526.32	3,272.24	3,434.93	3,259.31	175.62	19.559	
18,800.00	8,861.45	19,966.58	9,850.47	91.92	92.93	89.738		9,626.32	3,271.62	3,435.11	3,257.94	177.18	19.388	
18,900.00	8,861.10	20,066.58	9,850.99	92.74	93.73	89.738		9,726.31	3,271.01	3,435.30	3,256.56	178.74	19.220	
19,000.00	8,860.75	20,166.57	9,851.51	93.55	94.53	89.738		9,826.30	3,270.40	3,435.49	3,255.19	180.30	19.054	
19,100.00	8,860.40	20,266.57	9,852.04	94.37	95.33	89.738		9,926.30	3,269.78	3,435.68	3,253.81	181.86	18.892	
19,175.37	8,860.14	20,341.94	9,852.43	94.99	95.93	89.738		10,001.66	3,269.32	3,435.82	3,252.78	183.04	18.771 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 115H
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 115H	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			
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)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	-90.000	0.00	-25.00	25.00				
100.00	100.00	100.00	100.00	0.26	0.26	-90.000	0.00	-25.00	25.00	24.47	0.53	47.442	
200.00	200.00	200.00	200.00	0.62	0.62	-90.000	0.00	-25.00	25.00	23.76	1.24	20.098	
300.00	300.00	300.00	300.00	0.98	0.98	-90.000	0.00	-25.00	25.00	23.04	1.96	12.750	
400.00	400.00	400.00	400.00	1.34	1.34	-90.000	0.00	-25.00	25.00	22.32	2.68	9.336	
500.00	500.00	500.00	500.00	1.70	1.70	-90.000	0.00	-25.00	25.00	21.61	3.39	7.364	
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 CC, ES	
900.00	900.00	899.36	899.35	3.13	3.12	-90.872	-0.40	-26.23	26.24	19.99	6.25	4.200 SF	
1,000.00	1,000.00	998.58	998.49	3.49	3.46	-93.052	-1.59	-29.91	29.99	23.05	6.94	4.322	
1,100.00	1,100.00	1,097.54	1,097.24	3.85	3.80	-95.675	-3.58	-36.02	36.30	28.67	7.63	4.759	
1,200.00	1,200.00	1,196.10	1,195.39	4.21	4.14	-98.107	-6.34	-44.51	45.20	36.89	8.31	5.438	
1,300.00	1,300.00	1,294.13	1,292.75	4.57	4.48	-100.103	-9.86	-55.35	56.69	47.70	8.99	6.306	
1,400.00	1,400.00	1,391.51	1,389.15	4.92	4.83	-101.656	-14.12	-68.47	70.75	61.09	9.66	7.324	
1,500.00	1,500.00	1,488.13	1,484.41	5.28	5.18	-102.843	-19.10	-83.79	87.34	77.02	10.32	8.464	
1,600.00	1,599.99	1,583.90	1,578.40	5.62	5.52	-103.275	-24.77	-101.23	106.29	95.34	10.95	9.705	
1,700.00	1,699.96	1,678.75	1,671.02	5.95	5.87	-102.861	-31.10	-120.71	127.41	115.85	11.56	11.022	
1,800.00	1,799.86	1,772.59	1,762.11	6.28	6.22	-101.959	-38.06	-142.13	150.67	138.51	12.16	12.391	
1,900.00	1,899.68	1,868.30	1,854.59	6.61	6.59	-100.793	-45.68	-165.60	175.50	162.70	12.80	13.707	
2,000.00	1,999.37	1,965.08	1,948.07	6.94	6.96	-99.417	-53.42	-189.42	200.29	186.82	13.47	14.866	
2,100.00	2,098.90	2,061.82	2,041.51	7.28	7.33	-97.887	-61.16	-213.23	225.01	210.86	14.15	15.905	
2,100.18	2,099.08	2,061.99	2,041.68	7.28	7.33	-97.884	-61.17	-213.27	225.06	210.91	14.15	15.906	
2,200.00	2,198.36	2,158.53	2,134.93	7.62	7.71	-96.455	-68.89	-237.04	249.79	234.97	14.83	16.847	
2,300.00	2,297.81	2,255.24	2,228.34	7.96	8.08	-95.282	-76.63	-260.84	274.70	259.19	15.51	17.709	
2,400.00	2,397.26	2,351.95	2,321.76	8.30	8.46	-94.306	-84.36	-284.65	299.69	283.49	16.20	18.501	
2,500.00	2,496.71	2,448.66	2,415.17	8.65	8.84	-93.480	-92.10	-308.45	324.75	307.86	16.89	19.229	
2,600.00	2,596.16	2,545.37	2,508.59	9.00	9.23	-92.773	-99.83	-332.26	349.87	332.29	17.58	19.899	
2,700.00	2,695.62	2,642.08	2,602.00	9.35	9.61	-92.161	-107.57	-356.06	375.03	356.75	18.28	20.519	
2,800.00	2,795.07	2,738.79	2,695.42	9.70	9.99	-91.626	-115.30	-379.87	400.23	381.25	18.97	21.092	
2,900.00	2,894.52	2,835.50	2,788.83	10.05	10.38	-91.155	-123.04	-403.67	425.45	405.78	19.67	21.625	
3,000.00	2,993.97	2,932.21	2,882.25	10.41	10.77	-90.737	-130.77	-427.48	450.70	430.32	20.38	22.120	
3,100.00	3,093.42	3,028.92	2,975.66	10.76	11.15	-90.363	-138.51	-451.28	475.97	454.89	21.08	22.581	
3,200.00	3,192.87	3,125.63	3,069.08	11.12	11.54	-90.027	-146.24	-475.09	501.25	479.47	21.78	23.012	
3,300.00	3,292.33	3,222.34	3,162.49	11.48	11.93	-89.723	-153.98	-498.89	526.55	504.07	22.49	23.415	
3,400.00	3,391.78	3,319.05	3,255.91	11.83	12.32	-89.447	-161.71	-522.70	551.87	528.67	23.19	23.793	
3,500.00	3,491.23	3,415.76	3,349.32	12.19	12.71	-89.196	-169.45	-546.51	577.19	553.29	23.90	24.148	
3,600.00	3,590.68	3,512.47	3,442.74	12.55	13.10	-88.965	-177.18	-570.31	602.53	577.91	24.61	24.483	
3,700.00	3,690.13	3,611.69	3,538.58	12.91	13.50	-88.792	-185.31	-594.66	627.79	602.45	25.34	24.771	
3,800.00	3,789.59	3,714.90	3,638.28	13.27	13.92	-88.850	-195.86	-619.14	652.25	626.14	26.11	24.980	
3,900.00	3,889.04	3,811.96	3,732.04	13.63	14.31	-88.941	-206.86	-641.72	676.27	649.44	26.82	25.212	
4,000.00	3,988.49	3,909.03	3,825.80	13.99	14.70	-89.026	-217.86	-664.31	700.28	672.74	27.54	25.431	
4,100.00	4,087.94	4,006.10	3,919.56	14.35	15.10	-89.105	-228.86	-686.90	724.30	696.05	28.25	25.639	
4,200.00	4,187.39	4,103.17	4,013.32	14.72	15.49	-89.178	-239.87	-709.48	748.32	719.35	28.96	25.836	
4,300.00	4,286.84	4,200.24	4,107.08	15.08	15.88	-89.248	-250.87	-732.07	772.33	742.66	29.68	26.023	
4,400.00	4,386.30	4,297.31	4,200.84	15.44	16.28	-89.313	-261.87	-754.65	796.35	765.96	30.39	26.200	
4,500.00	4,485.75	4,394.37	4,294.60	15.80	16.67	-89.374	-272.87	-777.24	820.38	789.26	31.11	26.369	
4,600.00	4,585.20	4,491.44	4,388.36	16.17	17.07	-89.432	-283.87	-799.83	844.40	812.57	31.83	26.530	
4,700.00	4,684.65	4,588.51	4,482.13	16.53	17.46	-89.487	-294.88	-822.41	868.42	835.87	32.55	26.683	
4,800.00	4,784.10	4,685.58	4,575.89	16.89	17.86	-89.538	-305.88	-845.00	892.44	859.18	33.26	26.830	
4,900.00	4,883.56	4,782.65	4,669.65	17.26	18.25	-89.587	-316.88	-867.58	916.47	882.49	33.98	26.970	

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 115H
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 115H	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)	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	
5,000.00	4,983.01	4,879.72	4,763.41	17.62	18.65	-89.634	-327.88	-890.17	940.49	905.79	34.70	27.103		
5,100.00	5,082.46	4,976.78	4,857.17	17.99	19.04	-89.678	-338.88	-912.75	964.52	929.10	35.42	27.231		
5,200.00	5,181.91	5,073.85	4,950.93	18.35	19.44	-89.720	-349.89	-935.34	988.54	952.40	36.14	27.354		
5,300.00	5,281.36	5,170.92	5,044.69	18.72	19.83	-89.760	-360.89	-957.93	1,012.57	975.71	36.86	27.471		
5,400.00	5,380.82	5,267.99	5,138.45	19.08	20.23	-89.798	-371.89	-980.51	1,036.60	999.02	37.58	27.584		
5,500.00	5,480.27	5,365.06	5,232.21	19.45	20.63	-89.835	-382.89	-1,003.10	1,060.62	1,022.32	38.30	27.692		
5,600.00	5,579.72	5,462.13	5,325.97	19.81	21.02	-89.870	-393.90	-1,025.68	1,084.65	1,045.63	39.02	27.796		
5,700.00	5,679.17	5,559.20	5,419.73	20.18	21.42	-89.903	-404.90	-1,048.27	1,108.68	1,068.93	39.74	27.896		
5,800.00	5,778.62	5,656.26	5,513.50	20.54	21.82	-89.935	-415.90	-1,070.86	1,132.71	1,092.24	40.46	27.993		
5,900.00	5,878.07	5,753.33	5,607.26	20.91	22.21	-89.965	-426.90	-1,093.44	1,156.73	1,115.55	41.19	28.085		
6,000.00	5,977.53	5,850.40	5,701.02	21.27	22.61	-89.995	-437.90	-1,116.03	1,180.76	1,138.85	41.91	28.175		
6,100.00	6,076.98	5,947.47	5,794.78	21.64	23.01	-90.023	-448.91	-1,138.61	1,204.79	1,162.16	42.63	28.261		
6,200.00	6,176.43	6,044.54	5,888.54	22.01	23.41	-90.050	-459.91	-1,161.20	1,228.82	1,185.47	43.35	28.344		
6,300.00	6,275.88	6,176.60	6,016.55	22.37	23.94	-90.225	-474.11	-1,190.34	1,251.69	1,207.36	44.34	28.232		
6,400.00	6,375.33	6,316.43	6,153.22	22.74	24.49	-90.334	-487.03	-1,216.87	1,271.38	1,226.05	45.33	28.044		
6,425.72	6,400.92	6,352.67	6,188.82	22.83	24.63	-90.347	-490.02	-1,223.01	1,275.92	1,230.33	45.59	27.989		
6,500.00	6,474.83	6,457.91	6,292.51	23.10	25.03	-90.368	-497.86	-1,239.11	1,287.77	1,241.48	46.30	27.815		
6,600.00	6,574.49	6,600.77	6,434.00	23.47	25.56	-90.379	-506.50	-1,256.85	1,300.76	1,253.54	47.22	27.547		
6,700.00	6,674.27	6,744.71	6,577.20	23.83	26.07	-90.367	-512.86	-1,269.90	1,310.28	1,262.18	48.09	27.245		
6,800.00	6,774.15	6,889.38	6,721.57	24.19	26.57	-90.330	-516.87	-1,278.13	1,316.29	1,267.38	48.92	26.909		
6,900.00	6,874.11	7,034.43	6,866.56	24.55	27.05	-90.266	-518.48	-1,281.43	1,318.78	1,269.10	49.68	26.545		
7,000.00	6,974.10	7,141.96	6,974.10	24.90	27.38	-90.210	-518.51	-1,281.50	1,318.92	1,268.55	50.37	26.187		
7,025.90	7,000.00	7,167.86	7,000.00	24.99	27.46	-90.208	-518.51	-1,281.50	1,318.92	1,268.39	50.54	26.098		
7,100.00	7,074.10	7,241.96	7,074.10	25.23	27.69	-90.208	-518.51	-1,281.50	1,318.92	1,267.91	51.02	25.852		
7,200.00	7,174.10	7,341.96	7,174.10	25.56	28.00	-90.208	-518.51	-1,281.50	1,318.92	1,267.25	51.67	25.526		
7,300.00	7,274.10	7,441.96	7,274.10	25.89	28.31	-90.208	-518.51	-1,281.50	1,318.92	1,266.60	52.32	25.208		
7,400.00	7,374.10	7,541.96	7,374.10	26.22	28.63	-90.208	-518.51	-1,281.50	1,318.92	1,265.95	52.98	24.897		
7,500.00	7,474.10	7,641.96	7,474.10	26.55	28.94	-90.208	-518.51	-1,281.50	1,318.92	1,265.29	53.63	24.592		
7,600.00	7,574.10	7,741.96	7,574.10	26.88	29.26	-90.208	-518.51	-1,281.50	1,318.92	1,264.63	54.29	24.294		
7,700.00	7,674.10	7,841.96	7,674.10	27.21	29.57	-90.208	-518.51	-1,281.50	1,318.92	1,263.98	54.95	24.003		
7,800.00	7,774.10	7,941.96	7,774.10	27.55	29.89	-90.208	-518.51	-1,281.50	1,318.92	1,263.32	55.61	23.718		
7,900.00	7,874.10	8,041.96	7,874.10	27.88	30.21	-90.208	-518.51	-1,281.50	1,318.92	1,262.65	56.27	23.439		
8,000.00	7,974.10	8,141.96	7,974.10	28.21	30.53	-90.208	-518.51	-1,281.50	1,318.92	1,261.99	56.93	23.166		
8,100.00	8,074.10	8,241.96	8,074.10	28.55	30.85	-90.208	-518.51	-1,281.50	1,318.92	1,261.33	57.60	22.899		
8,200.00	8,174.10	8,341.96	8,174.10	28.88	31.17	-90.208	-518.51	-1,281.50	1,318.92	1,260.66	58.26	22.637		
8,300.00	8,274.10	8,441.96	8,274.10	29.22	31.49	-90.208	-518.51	-1,281.50	1,318.92	1,259.99	58.93	22.381		
8,304.77	8,278.87	8,446.73	8,278.87	29.23	31.50	-90.208	-518.51	-1,281.50	1,318.92	1,259.96	58.96	22.369		
8,347.73	8,321.83	8,489.61	8,321.74	29.38	31.64	-90.195	-518.23	-1,281.50	1,318.92	1,259.68	59.25	22.261		
8,350.00	8,324.10	8,491.87	8,324.00	29.39	31.65	-90.192	-518.15	-1,281.50	1,318.92	1,259.66	59.26	22.255		
8,400.00	8,374.02	8,541.53	8,373.49	29.55	31.80	-90.126	-514.25	-1,281.52	1,318.93	1,259.33	59.59	22.132		
8,450.00	8,423.55	8,591.06	8,422.34	29.72	31.96	-90.064	-506.10	-1,281.57	1,318.93	1,259.02	59.92	22.013		
8,500.00	8,472.31	8,640.47	8,470.17	29.87	32.10	-90.008	-493.80	-1,281.63	1,318.94	1,258.71	60.23	21.899		
8,550.00	8,519.92	8,689.76	8,516.66	30.03	32.24	-89.960	-477.47	-1,281.72	1,318.95	1,258.42	60.53	21.790		
8,600.00	8,566.02	8,738.93	8,561.47	30.18	32.37	-89.921	-457.26	-1,281.83	1,318.96	1,258.14	60.82	21.687		
8,650.00	8,610.27	8,787.99	8,604.28	30.32	32.48	-89.892	-433.35	-1,281.96	1,318.97	1,257.88	61.09	21.590		
8,700.00	8,652.32	8,836.95	8,644.82	30.45	32.59	-89.874	-405.91	-1,282.11	1,318.98	1,257.63	61.35	21.499		
8,750.00	8,691.85	8,885.81	8,682.79	30.58	32.68	-89.868	-375.19	-1,282.28	1,318.99	1,257.40	61.59	21.414		
8,800.00	8,728.57	8,934.59	8,717.96	30.70	32.76	-89.873	-341.39	-1,282.47	1,319.00	1,257.18	61.82	21.335		
8,850.00	8,762.19	8,983.30	8,750.07	30.81	32.82	-89.890	-304.80	-1,282.67	1,319.01	1,256.98	62.03	21.263		
8,900.00	8,792.47	9,031.94	8,778.92	30.91	32.88	-89.918	-265.66	-1,282.88	1,319.02	1,256.79	62.23	21.196		

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 115H
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 115H	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														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		
8,950.00	8,819.16	9,080.52	8,804.32	31.01	32.92	-89.955	-224.26	-1,283.11	1,319.03	1,256.62	62.41	21.135			
9,000.00	8,842.06	9,129.06	8,826.11	31.10	32.95	-90.002	-180.91	-1,283.35	1,319.04	1,256.47	62.57	21.080			
9,050.00	8,861.01	9,177.56	8,844.14	31.18	32.97	-90.056	-135.90	-1,283.59	1,319.04	1,256.32	62.72	21.030			
9,100.00	8,875.85	9,226.03	8,858.29	31.25	32.98	-90.116	-89.55	-1,283.85	1,319.05	1,256.20	62.85	20.986			
9,150.00	8,886.47	9,274.49	8,868.47	31.32	32.98	-90.180	-42.19	-1,284.11	1,319.05	1,256.08	62.97	20.947			
9,200.00	8,892.80	9,322.95	8,874.61	31.38	32.98	-90.247	5.86	-1,284.37	1,319.05	1,255.98	63.07	20.913			
9,249.73	8,894.78	9,371.15	8,876.68	31.43	32.97	-90.313	54.01	-1,284.63	1,319.05	1,255.89	63.16	20.884			
9,252.00	8,894.78	9,373.34	8,876.68	31.43	32.97	-90.316	56.20	-1,284.65	1,319.05	1,255.89	63.16	20.883			
9,300.00	8,894.61	9,421.31	8,876.43	31.48	32.96	-90.318	104.16	-1,284.91	1,319.05	1,255.80	63.25	20.854			
9,400.00	8,894.26	9,521.31	8,875.90	31.60	32.95	-90.318	204.16	-1,285.46	1,319.05	1,255.58	63.47	20.781			
9,500.00	8,893.91	9,621.31	8,875.38	31.75	32.94	-90.318	304.16	-1,286.01	1,319.06	1,255.32	63.74	20.694			
9,600.00	8,893.56	9,721.31	8,874.85	31.92	32.93	-90.318	404.15	-1,286.55	1,319.06	1,255.01	64.05	20.593			
9,700.00	8,893.21	9,821.31	8,874.33	32.11	32.94	-90.318	504.15	-1,287.10	1,319.06	1,254.65	64.41	20.478			
9,800.00	8,892.86	9,921.31	8,873.81	32.32	32.95	-90.318	604.15	-1,287.65	1,319.07	1,254.25	64.82	20.351			
9,900.00	8,892.51	10,021.31	8,873.28	32.56	32.99	-90.318	704.14	-1,288.20	1,319.07	1,253.81	65.26	20.212			
10,000.00	8,892.17	10,121.31	8,872.76	32.82	33.07	-90.318	804.14	-1,288.75	1,319.07	1,253.32	65.75	20.061			
10,100.00	8,891.82	10,221.31	8,872.24	33.09	33.22	-90.318	904.14	-1,289.29	1,319.08	1,252.79	66.28	19.901			
10,200.00	8,891.47	10,321.31	8,871.71	33.39	33.44	-90.318	1,004.13	-1,289.84	1,319.08	1,252.22	66.86	19.730			
10,300.00	8,891.12	10,421.31	8,871.19	33.71	33.71	-90.318	1,104.13	-1,290.39	1,319.08	1,251.61	67.47	19.551			
10,400.00	8,890.77	10,521.31	8,870.67	34.04	34.02	-90.319	1,204.13	-1,290.94	1,319.08	1,250.97	68.12	19.365			
10,500.00	8,890.42	10,621.31	8,870.14	34.40	34.35	-90.319	1,304.13	-1,291.48	1,319.09	1,250.28	68.81	19.171			
10,600.00	8,890.07	10,721.31	8,869.62	34.77	34.70	-90.319	1,404.12	-1,292.03	1,319.09	1,249.56	69.53	18.971			
10,700.00	8,889.72	10,821.31	8,869.09	35.16	35.07	-90.319	1,504.12	-1,292.58	1,319.09	1,248.80	70.29	18.766			
10,800.00	8,889.37	10,921.31	8,868.57	35.57	35.45	-90.319	1,604.12	-1,293.13	1,319.10	1,248.01	71.09	18.556			
10,900.00	8,889.02	11,021.31	8,868.05	35.99	35.86	-90.319	1,704.11	-1,293.68	1,319.10	1,247.19	71.91	18.343			
11,000.00	8,888.68	11,121.31	8,867.52	36.43	36.28	-90.319	1,804.11	-1,294.22	1,319.10	1,246.33	72.77	18.126			
11,100.00	8,888.33	11,221.31	8,867.00	36.89	36.72	-90.319	1,904.11	-1,294.77	1,319.11	1,245.44	73.66	17.907			
11,200.00	8,887.98	11,321.31	8,866.48	37.36	37.17	-90.319	2,004.10	-1,295.32	1,319.11	1,244.53	74.58	17.686			
11,300.00	8,887.63	11,421.31	8,865.95	37.84	37.64	-90.319	2,104.10	-1,295.87	1,319.12	1,243.58	75.53	17.464			
11,400.00	8,887.28	11,521.31	8,865.43	38.34	38.12	-90.319	2,204.10	-1,296.42	1,319.12	1,242.61	76.51	17.241			
11,500.00	8,886.93	11,621.31	8,864.90	38.85	38.62	-90.319	2,304.10	-1,296.96	1,319.12	1,241.61	77.51	17.018			
11,600.00	8,886.58	11,721.31	8,864.38	39.37	39.13	-90.319	2,404.09	-1,297.51	1,319.13	1,240.59	78.54	16.795			
11,700.00	8,886.23	11,821.30	8,863.86	39.90	39.65	-90.319	2,504.09	-1,298.06	1,319.13	1,239.54	79.59	16.573			
11,800.00	8,885.88	11,921.30	8,863.33	40.45	40.18	-90.319	2,604.09	-1,298.61	1,319.13	1,238.46	80.67	16.352			
11,900.00	8,885.53	12,021.30	8,862.81	41.01	40.72	-90.319	2,704.08	-1,299.16	1,319.14	1,237.37	81.77	16.132			
12,000.00	8,885.19	12,121.30	8,862.29	41.58	41.28	-90.319	2,804.08	-1,299.70	1,319.14	1,236.25	82.89	15.914			
12,100.00	8,884.84	12,221.30	8,861.76	42.15	41.85	-90.319	2,904.08	-1,300.25	1,319.14	1,235.11	84.03	15.698			
12,200.00	8,884.49	12,321.30	8,861.24	42.74	42.42	-90.319	3,004.07	-1,300.80	1,319.15	1,233.95	85.19	15.484			
12,300.00	8,884.14	12,421.30	8,860.72	43.34	43.01	-90.319	3,104.07	-1,301.35	1,319.15	1,232.78	86.38	15.272			
12,400.00	8,883.79	12,521.30	8,860.19	43.94	43.60	-90.319	3,204.07	-1,301.90	1,319.15	1,231.58	87.58	15.063			
12,500.00	8,883.44	12,621.30	8,859.67	44.56	44.21	-90.319	3,304.07	-1,302.44	1,319.16	1,230.37	88.79	14.857			
12,600.00	8,883.09	12,721.30	8,859.14	45.18	44.82	-90.319	3,404.06	-1,302.99	1,319.16	1,229.13	90.03	14.653			
12,700.00	8,882.74	12,821.30	8,858.62	45.81	45.44	-90.319	3,504.06	-1,303.54	1,319.17	1,227.89	91.28	14.452			
12,800.00	8,882.39	12,921.30	8,858.10	46.45	46.07	-90.319	3,604.06	-1,304.09	1,319.17	1,226.63	92.54	14.254			
12,900.00	8,882.04	13,021.30	8,857.57	47.10	46.70	-90.320	3,704.05	-1,304.63	1,319.17	1,225.35	93.83	14.060			
13,000.00	8,881.69	13,121.30	8,857.05	47.75	47.35	-90.320	3,804.05	-1,305.18	1,319.18	1,224.06	95.12	13.868			
13,100.00	8,881.35	13,221.30	8,856.53	48.41	48.00	-90.320	3,904.05	-1,305.73	1,319.18	1,222.75	96.43	13.680			
13,200.00	8,881.00	13,321.30	8,856.00	49.08	48.65	-90.320	4,004.04	-1,306.28	1,319.19	1,221.43	97.75	13.495			
13,300.00	8,880.65	13,421.30	8,855.48	49.75	49.32	-90.320	4,104.04	-1,306.83	1,319.19	1,220.10	99.09	13.313			
13,400.00	8,880.30	13,521.30	8,854.95	50.43	49.99	-90.320	4,204.04	-1,307.37	1,319.19	1,218.76	100.44	13.134			
13,500.00	8,879.95	13,621.30	8,854.43	51.11	50.66	-90.320	4,304.04	-1,307.92	1,319.20	1,217.40	101.80	12.959			

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 115H
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 115H	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)	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	
13,600.00	8,879.60	13,721.30	8,853.91	51.80	51.35	-90.320	4,404.03	-1,308.47	1,319.20	1,216.03	103.17	12.787		
13,700.00	8,879.25	13,821.30	8,853.38	52.50	52.03	-90.320	4,504.03	-1,309.02	1,319.21	1,214.66	104.55	12.618		
13,800.00	8,878.90	13,921.30	8,852.86	53.20	52.72	-90.320	4,604.03	-1,309.57	1,319.21	1,213.27	105.94	12.452		
13,900.00	8,878.55	14,021.30	8,852.34	53.90	53.42	-90.320	4,704.02	-1,310.11	1,319.21	1,211.87	107.34	12.290		
14,000.00	8,878.20	14,121.30	8,851.81	54.61	54.12	-90.320	4,804.02	-1,310.66	1,319.22	1,210.46	108.76	12.130		
14,100.00	8,877.86	14,221.30	8,851.29	55.33	54.83	-90.320	4,904.02	-1,311.21	1,319.22	1,209.05	110.18	11.974		
14,200.00	8,877.51	14,321.30	8,850.77	56.04	55.54	-90.320	5,004.01	-1,311.76	1,319.23	1,207.62	111.61	11.820		
14,300.00	8,877.16	14,421.30	8,850.24	56.77	56.26	-90.320	5,104.01	-1,312.31	1,319.23	1,206.19	113.04	11.670		
14,400.00	8,876.81	14,521.30	8,849.72	57.49	56.98	-90.320	5,204.01	-1,312.85	1,319.23	1,204.74	114.49	11.523		
14,500.00	8,876.46	14,621.30	8,849.19	58.22	57.70	-90.320	5,304.00	-1,313.40	1,319.24	1,203.29	115.95	11.378		
14,600.00	8,876.11	14,721.30	8,848.67	58.96	58.43	-90.320	5,404.00	-1,313.95	1,319.24	1,201.83	117.41	11.236		
14,700.00	8,875.76	14,821.30	8,848.15	59.70	59.16	-90.320	5,504.00	-1,314.50	1,319.25	1,200.37	118.88	11.098		
14,800.00	8,875.41	14,921.30	8,847.62	60.44	59.90	-90.320	5,604.00	-1,315.05	1,319.25	1,198.90	120.35	10.961		
14,900.00	8,875.06	15,021.30	8,847.10	61.18	60.64	-90.320	5,703.99	-1,315.59	1,319.26	1,197.42	121.84	10.828		
15,000.00	8,874.71	15,121.30	8,846.58	61.93	61.38	-90.320	5,803.99	-1,316.14	1,319.26	1,195.93	123.33	10.697		
15,100.00	8,874.36	15,221.30	8,846.05	62.68	62.13	-90.320	5,903.99	-1,316.69	1,319.26	1,194.44	124.82	10.569		
15,200.00	8,874.02	15,321.30	8,845.53	63.43	62.88	-90.320	6,003.98	-1,317.24	1,319.27	1,192.94	126.33	10.443		
15,300.00	8,873.67	15,421.30	8,845.01	64.19	63.63	-90.320	6,103.98	-1,317.79	1,319.27	1,191.44	127.83	10.320		
15,400.00	8,873.32	15,521.30	8,844.48	64.95	64.38	-90.320	6,203.98	-1,318.33	1,319.28	1,189.93	129.35	10.199		
15,500.00	8,872.97	15,621.30	8,843.96	65.71	65.14	-90.321	6,303.97	-1,318.88	1,319.28	1,188.41	130.87	10.081		
15,600.00	8,872.62	15,721.30	8,843.43	66.48	65.90	-90.321	6,403.97	-1,319.43	1,319.29	1,186.89	132.39	9.965		
15,700.00	8,872.27	15,821.30	8,842.91	67.24	66.66	-90.321	6,503.97	-1,319.98	1,319.29	1,185.37	133.92	9.851		
15,800.00	8,871.92	15,921.30	8,842.39	68.01	67.43	-90.321	6,603.97	-1,320.52	1,319.29	1,183.84	135.46	9.740		
15,900.00	8,871.57	16,021.30	8,841.86	68.79	68.20	-90.321	6,703.96	-1,321.07	1,319.30	1,182.30	137.00	9.630		
16,000.00	8,871.22	16,121.30	8,841.34	69.56	68.97	-90.321	6,803.96	-1,321.62	1,319.30	1,180.76	138.54	9.523		
16,100.00	8,870.87	16,221.30	8,840.82	70.34	69.74	-90.321	6,903.96	-1,322.17	1,319.31	1,179.22	140.09	9.418		
16,200.00	8,870.53	16,321.30	8,840.29	71.11	70.51	-90.321	7,003.95	-1,322.72	1,319.31	1,177.67	141.64	9.314		
16,300.00	8,870.18	16,421.30	8,839.77	71.90	71.29	-90.321	7,103.95	-1,323.26	1,319.32	1,176.12	143.20	9.213		
16,400.00	8,869.83	16,521.30	8,839.24	72.68	72.07	-90.321	7,203.95	-1,323.81	1,319.32	1,174.56	144.76	9.114		
16,500.00	8,869.48	16,621.30	8,838.72	73.46	72.85	-90.321	7,303.94	-1,324.36	1,319.33	1,173.00	146.32	9.016		
16,600.00	8,869.13	16,721.30	8,838.20	74.25	73.63	-90.321	7,403.94	-1,324.91	1,319.33	1,171.44	147.89	8.921		
16,700.00	8,868.78	16,821.30	8,837.67	75.04	74.42	-90.321	7,503.94	-1,325.46	1,319.34	1,169.87	149.47	8.827		
16,800.00	8,868.43	16,921.30	8,837.15	75.83	75.20	-90.321	7,603.94	-1,326.00	1,319.34	1,168.30	151.04	8.735		
16,900.00	8,868.08	17,021.30	8,836.63	76.62	75.99	-90.321	7,703.93	-1,326.55	1,319.35	1,166.72	152.62	8.645		
17,000.00	8,867.73	17,121.30	8,836.10	77.41	76.78	-90.321	7,803.93	-1,327.10	1,319.35	1,165.15	154.20	8.556		
17,100.00	8,867.38	17,221.30	8,835.58	78.21	77.57	-90.321	7,903.93	-1,327.65	1,319.36	1,163.56	155.79	8.469		
17,200.00	8,867.03	17,321.30	8,835.06	79.00	78.37	-90.321	8,003.92	-1,328.20	1,319.36	1,161.98	157.38	8.383		
17,300.00	8,866.69	17,421.30	8,834.53	79.80	79.16	-90.321	8,103.92	-1,328.74	1,319.36	1,160.39	158.97	8.299		
17,400.00	8,866.34	17,521.30	8,834.01	80.60	79.96	-90.321	8,203.92	-1,329.29	1,319.37	1,158.80	160.57	8.217		
17,500.00	8,865.99	17,621.30	8,833.48	81.40	80.75	-90.321	8,303.91	-1,329.84	1,319.37	1,157.21	162.17	8.136		
17,600.00	8,865.64	17,721.30	8,832.96	82.20	81.55	-90.321	8,403.91	-1,330.39	1,319.38	1,155.61	163.77	8.056		
17,700.00	8,865.29	17,821.30	8,832.44	83.01	82.35	-90.321	8,503.91	-1,330.94	1,319.38	1,154.01	165.37	7.978		
17,800.00	8,864.94	17,921.30	8,831.91	83.81	83.16	-90.321	8,603.91	-1,331.48	1,319.39	1,152.41	166.98	7.902		
17,900.00	8,864.59	18,021.30	8,831.39	84.62	83.96	-90.321	8,703.90	-1,332.03	1,319.39	1,150.81	168.58	7.826		
18,000.00	8,864.24	18,121.30	8,830.87	85.42	84.76	-90.322	8,803.90	-1,332.58	1,319.40	1,149.20	170.20	7.752		
18,100.00	8,863.89	18,221.30	8,830.34	86.23	85.57	-90.322	8,903.90	-1,333.13	1,319.40	1,147.59	171.81	7.679		
18,200.00	8,863.54	18,321.30	8,829.82	87.04	86.38	-90.322	9,003.89	-1,333.67	1,319.41	1,145.98	173.43	7.608		
18,300.00	8,863.20	18,421.29	8,829.29	87.85	87.19	-90.322	9,103.89	-1,334.22	1,319.41	1,144.37	175.04	7.538		
18,400.00	8,862.85	18,521.29	8,828.77	88.66	87.99	-90.322	9,203.89	-1,334.77	1,319.42	1,142.76	176.66	7.469		
18,500.00	8,862.50	18,621.29	8,828.25	89.47	88.80	-90.322	9,303.88	-1,335.32	1,319.42	1,141.14	178.29	7.401		

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 115H
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 115H	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													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+FDIR													Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Offset Wellbore Centre	Rule Assigned:	Distance	Between	Between	Minimum	Separation	Warning		
Measured	Vertical	Measured	Vertical	Reference	Offset	Offset	Offset	Offset	Offset	Offset	Offset	Offset		
Depth	Depth	Depth	Depth	Reference	Offset	Offset	Offset	Offset	Offset	Offset	Offset	Offset		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)		
18,600.00	8,862.15	18,721.29	8,827.72	90.29	89.62	-90.322	9,403.88	-1,335.87	1,319.43	1,139.52	179.91	7.334		
18,700.00	8,861.80	18,821.29	8,827.20	91.10	90.43	-90.322	9,503.88	-1,336.41	1,319.44	1,137.90	181.54	7.268		
18,800.00	8,861.45	18,921.29	8,826.68	91.92	91.24	-90.322	9,603.87	-1,336.96	1,319.44	1,136.27	183.17	7.204		
18,900.00	8,861.10	19,021.29	8,826.15	92.74	92.06	-90.322	9,703.87	-1,337.51	1,319.45	1,134.65	184.80	7.140		
19,000.00	8,860.75	19,121.29	8,825.63	93.55	92.87	-90.322	9,803.87	-1,338.06	1,319.45	1,133.02	186.43	7.077		
19,100.00	8,860.40	19,221.29	8,825.11	94.37	93.69	-90.322	9,903.87	-1,338.61	1,319.46	1,131.39	188.06	7.016		
19,106.34	8,860.38	19,227.64	8,825.07	94.42	93.74	-90.322	9,910.21	-1,338.64	1,319.46	1,131.29	188.17	7.012		
19,175.37	8,860.14	19,292.97	8,824.73	94.99	94.27	-90.483	9,975.54	-1,339.00	1,319.47	1,130.19	189.27	6.971		

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 115H
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 115H	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 121H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Offset Well Error: 0.00 usft

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

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	0.00	0.00	0.00	-135.000	-25.00	-25.00	35.36				
100.00	100.00	100.00	100.00	0.26	0.26	-135.000	-25.00	-25.00	35.36	34.83	0.53	67.094	
200.00	200.00	200.00	200.00	0.62	0.62	-135.000	-25.00	-25.00	35.36	34.11	1.24	28.423	
300.00	300.00	300.00	300.00	0.98	0.98	-135.000	-25.00	-25.00	35.36	33.39	1.96	18.031	
400.00	400.00	400.00	400.00	1.34	1.34	-135.000	-25.00	-25.00	35.36	32.68	2.68	13.203	
500.00	500.00	500.00	500.00	1.70	1.70	-135.000	-25.00	-25.00	35.36	31.96	3.39	10.415	
600.00	600.00	600.00	600.00	2.06	2.06	-135.000	-25.00	-25.00	35.36	31.24	4.11	8.599	
700.00	700.00	700.00	700.00	2.41	2.41	-135.000	-25.00	-25.00	35.36	30.53	4.83	7.322	
800.00	800.00	800.00	800.00	2.77	2.77	-135.000	-25.00	-25.00	35.36	29.81	5.55	6.375 CC	
900.00	900.00	899.83	899.82	3.13	3.11	-136.351	-25.75	-24.57	35.59	29.35	6.25	5.699 ES	
1,000.00	1,000.00	999.60	999.56	3.49	3.44	-140.283	-28.02	-23.27	36.43	29.49	6.93	5.254	
1,100.00	1,100.00	1,099.24	1,099.11	3.85	3.78	-146.393	-31.78	-21.12	38.17	30.55	7.63	5.005	
1,200.00	1,200.00	1,198.71	1,198.39	4.21	4.12	-153.935	-37.04	-18.12	41.26	32.94	8.32	4.959	
1,300.00	1,300.00	1,297.93	1,297.31	4.57	4.46	-161.948	-43.77	-14.27	46.12	37.10	9.01	5.116	
1,400.00	1,400.00	1,397.05	1,395.98	4.92	4.80	-169.522	-51.92	-9.60	52.96	43.25	9.71	5.457	
1,500.00	1,500.00	1,496.55	1,494.99	5.28	5.15	-175.563	-60.51	-4.70	60.89	50.49	10.40	5.853	
1,600.00	1,599.99	1,596.13	1,594.07	5.62	5.50	179.872	-69.09	0.22	68.48	57.39	11.09	6.176	
1,700.00	1,699.96	1,695.84	1,693.29	5.95	5.85	176.239	-77.69	5.13	74.67	62.91	11.76	6.351	
1,800.00	1,799.86	1,795.64	1,792.59	6.28	6.21	173.108	-86.30	10.05	79.37	66.94	12.43	6.384	
1,900.00	1,899.68	1,895.50	1,891.96	6.61	6.57	170.217	-94.91	14.98	82.55	69.43	13.11	6.294	
2,000.00	1,999.37	1,995.40	1,991.37	6.94	6.92	167.372	-103.53	19.91	84.19	70.39	13.80	6.101	
2,100.00	2,098.90	2,095.31	2,090.78	7.28	7.28	164.411	-112.14	24.83	84.32	69.83	14.48	5.821	
2,100.18	2,099.08	2,095.49	2,090.96	7.28	7.28	164.406	-112.16	24.84	84.32	69.83	14.49	5.820	
2,200.00	2,198.36	2,195.20	2,190.18	7.62	7.64	161.318	-120.76	29.76	83.82	68.64	15.17	5.524	
2,300.00	2,297.81	2,295.10	2,289.59	7.96	8.00	158.197	-129.37	34.69	83.56	67.70	15.87	5.267	
2,352.83	2,350.34	2,347.87	2,342.10	8.14	8.19	156.543	-133.92	37.29	83.53	67.30	16.23	5.145	
2,400.00	2,397.26	2,395.00	2,388.99	8.30	8.36	155.065	-137.99	39.61	83.56	67.00	16.56	5.045	
2,500.00	2,496.71	2,494.89	2,488.39	8.65	8.73	151.942	-146.60	44.54	83.80	66.54	17.26	4.855	
2,600.00	2,596.16	2,594.79	2,587.79	9.00	9.09	148.845	-155.22	49.47	84.28	66.32	17.96	4.692	
2,700.00	2,695.62	2,694.69	2,687.20	9.35	9.45	145.793	-163.83	54.39	85.01	66.34	18.67	4.554	
2,800.00	2,795.07	2,794.58	2,786.60	9.70	9.81	142.801	-172.45	59.32	85.97	66.59	19.37	4.438	
2,900.00	2,894.52	2,894.48	2,886.00	10.05	10.18	139.883	-181.06	64.24	87.15	67.07	20.08	4.340	
3,000.00	2,993.97	2,994.38	2,985.40	10.41	10.54	137.050	-189.68	69.17	88.56	67.76	20.79	4.259	
3,100.00	3,093.42	3,094.27	3,084.81	10.76	10.90	134.314	-198.29	74.10	90.17	68.66	21.51	4.192	
3,200.00	3,192.87	3,194.17	3,184.21	11.12	11.27	131.679	-206.90	79.02	91.98	69.75	22.22	4.139	
3,300.00	3,292.33	3,294.07	3,283.61	11.48	11.63	129.152	-215.52	83.95	93.97	71.03	22.94	4.096	
3,400.00	3,391.78	3,393.96	3,383.01	11.83	12.00	126.735	-224.13	88.88	96.14	72.47	23.66	4.063	
3,500.00	3,491.23	3,493.86	3,482.42	12.19	12.36	124.429	-232.75	93.80	98.47	74.08	24.39	4.038	
3,600.00	3,590.68	3,593.76	3,581.82	12.55	12.73	122.234	-241.36	98.73	100.95	75.83	25.11	4.020	
3,700.00	3,690.13	3,693.65	3,681.22	12.91	13.09	120.148	-249.98	103.66	103.57	77.73	25.84	4.008	
3,800.00	3,789.59	3,793.55	3,780.62	13.27	13.46	118.167	-258.59	108.58	106.32	79.75	26.56	4.002	
3,900.00	3,889.04	3,893.45	3,880.03	13.63	13.82	116.289	-267.21	113.51	109.19	81.89	27.29	4.001	
4,000.00	3,988.49	3,993.34	3,979.43	13.99	14.19	114.510	-275.82	118.44	112.17	84.14	28.02	4.003	
4,100.00	4,087.94	4,093.24	4,078.83	14.35	14.55	112.825	-284.44	123.36	115.25	86.50	28.75	4.008	
4,200.00	4,187.39	4,193.14	4,178.23	14.72	14.92	111.229	-293.05	128.29	118.43	88.94	29.48	4.017	
4,300.00	4,286.84	4,293.03	4,277.64	15.08	15.28	109.718	-301.67	133.22	121.69	91.48	30.21	4.028	
4,400.00	4,386.30	4,392.93	4,377.04	15.44	15.65	108.288	-310.28	138.14	125.03	94.09	30.95	4.040	
4,500.00	4,485.75	4,492.83	4,476.44	15.80	16.02	106.933	-318.90	143.07	128.45	96.77	31.68	4.055	
4,600.00	4,585.20	4,592.72	4,575.84	16.17	16.38	105.649	-327.51	148.00	131.94	99.53	32.41	4.071	
4,700.00	4,684.65	4,692.62	4,675.25	16.53	16.75	104.432	-336.13	152.92	135.49	102.34	33.14	4.088	
4,800.00	4,784.10	4,792.52	4,774.65	16.89	17.11	103.278	-344.74	157.85	139.09	105.22	33.88	4.106	

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 115H
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 115H	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 121H - 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 (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)			
4,900.00	4,883.56	4,892.41	4,874.05	17.26	17.48	102.183	-353.36	162.78	142.75	108.14	34.61	4.125	
5,000.00	4,983.01	4,992.31	4,973.45	17.62	17.85	101.143	-361.97	167.70	146.46	111.12	35.34	4.144	
5,100.00	5,082.46	5,092.21	5,072.86	17.99	18.21	100.155	-370.59	172.63	150.22	114.14	36.08	4.164	
5,200.00	5,181.91	5,192.11	5,172.26	18.35	18.58	99.216	-379.20	177.55	154.02	117.20	36.81	4.184	
5,300.00	5,281.36	5,292.00	5,271.66	18.72	18.95	98.322	-387.82	182.48	157.85	120.31	37.55	4.204	
5,400.00	5,380.82	5,391.90	5,371.06	19.08	19.31	97.471	-396.43	187.41	161.73	123.45	38.28	4.225	
5,500.00	5,480.27	5,491.80	5,470.47	19.45	19.68	96.660	-405.05	192.33	165.64	126.62	39.01	4.245	
5,600.00	5,579.72	5,591.69	5,569.87	19.81	20.05	95.887	-413.66	197.26	169.58	129.83	39.75	4.266	
5,700.00	5,679.17	5,691.59	5,669.27	20.18	20.41	95.149	-422.28	202.19	173.55	133.06	40.48	4.287	
5,800.00	5,778.62	5,791.49	5,768.67	20.54	20.78	94.445	-430.89	207.11	177.54	136.32	41.22	4.307	
5,900.00	5,878.07	5,891.38	5,868.08	20.91	21.15	93.771	-439.51	212.04	181.57	139.61	41.95	4.328	
6,000.00	5,977.53	5,991.28	5,967.48	21.27	21.51	93.127	-448.12	216.97	185.61	142.92	42.69	4.348	
6,100.00	6,076.98	6,091.18	6,066.88	21.64	21.88	92.510	-456.74	221.89	189.68	146.26	43.42	4.368	
6,200.00	6,176.43	6,191.07	6,166.28	22.01	22.25	91.920	-465.35	226.82	193.77	149.62	44.16	4.388	
6,300.00	6,275.88	6,290.97	6,265.69	22.37	22.61	91.354	-473.97	231.75	197.88	152.99	44.89	4.408	
6,400.00	6,375.33	6,390.87	6,365.09	22.74	22.98	90.811	-482.58	236.67	202.01	156.39	45.63	4.427	
6,425.72	6,400.92	6,416.56	6,390.66	22.83	23.07	90.675	-484.80	237.94	203.08	157.26	45.82	4.432	
6,500.00	6,474.83	6,491.39	6,465.13	23.10	23.35	90.413	-491.16	241.58	206.15	159.78	46.37	4.446	
6,600.00	6,574.49	6,593.18	6,566.55	23.47	23.72	90.185	-498.63	245.85	209.73	162.62	47.11	4.452	
6,700.00	6,674.27	6,695.01	6,668.15	23.83	24.09	90.011	-504.53	249.23	212.57	164.73	47.84	4.443	
6,800.00	6,774.15	6,796.87	6,769.89	24.19	24.46	89.887	-508.87	251.71	214.65	166.08	48.57	4.420	
6,900.00	6,874.11	6,898.75	6,871.72	24.55	24.82	89.810	-511.63	253.29	215.98	166.70	49.29	4.382	
7,000.00	6,974.10	7,000.65	6,973.60	24.90	25.18	89.777	-512.83	253.97	216.56	166.56	50.00	4.331	
7,025.90	7,000.00	7,027.04	7,000.00	24.99	25.27	89.775	-512.88	254.00	216.58	166.41	50.18	4.316	
7,100.00	7,074.10	7,101.14	7,074.10	25.23	25.51	89.775	-512.88	254.00	216.58	165.93	50.66	4.275	
7,200.00	7,174.10	7,201.14	7,174.10	25.56	25.84	89.775	-512.88	254.00	216.58	165.27	51.31	4.221	
7,300.00	7,274.10	7,301.14	7,274.10	25.89	26.16	89.775	-512.88	254.00	216.58	164.62	51.97	4.168	
7,400.00	7,374.10	7,401.14	7,374.10	26.22	26.49	89.775	-512.88	254.00	216.58	163.96	52.62	4.116	
7,500.00	7,474.10	7,501.14	7,474.10	26.55	26.81	89.775	-512.88	254.00	216.58	163.30	53.28	4.065	
7,600.00	7,574.10	7,601.14	7,574.10	26.88	27.14	89.775	-512.88	254.00	216.58	162.65	53.94	4.015	
7,700.00	7,674.10	7,701.14	7,674.10	27.21	27.47	89.775	-512.88	254.00	216.58	161.98	54.60	3.967	
7,800.00	7,774.10	7,801.14	7,774.10	27.55	27.80	89.775	-512.88	254.00	216.58	161.32	55.26	3.919	
7,900.00	7,874.10	7,901.14	7,874.10	27.88	28.13	89.775	-512.88	254.00	216.58	160.66	55.93	3.873	
8,000.00	7,974.10	8,001.14	7,974.10	28.21	28.46	89.775	-512.88	254.00	216.58	159.99	56.59	3.827	
8,100.00	8,074.10	8,101.14	8,074.10	28.55	28.79	89.775	-512.88	254.00	216.58	159.33	57.26	3.783	
8,200.00	8,174.10	8,201.14	8,174.10	28.88	29.12	89.775	-512.88	254.00	216.58	158.66	57.92	3.739	
8,300.00	8,274.10	8,301.14	8,274.10	29.22	29.46	89.775	-512.88	254.00	216.58	157.99	58.59	3.696	
8,347.73	8,321.83	8,348.87	8,321.83	29.38	29.61	89.775	-512.88	254.00	216.58	157.67	58.91	3.676	
8,350.00	8,324.10	8,351.14	8,324.10	29.39	29.62	89.776	-512.88	254.00	216.58	157.66	58.93	3.676	
8,352.25	8,326.35	8,353.39	8,326.35	29.39	29.63	89.780	-512.88	254.00	216.58	157.64	58.94	3.675	
8,400.00	8,374.02	8,401.07	8,374.02	29.55	29.79	90.405	-512.88	254.00	216.60	157.35	59.26	3.655	
8,450.00	8,423.55	8,450.60	8,423.55	29.72	29.95	92.182	-512.88	254.00	216.79	157.22	59.57	3.639	
8,500.00	8,472.31	8,499.35	8,472.31	29.87	30.12	95.080	-512.88	254.00	217.55	157.68	59.87	3.634 SF	
8,550.00	8,519.92	8,546.96	8,519.92	30.03	30.28	99.038	-512.88	254.00	219.50	159.35	60.15	3.649	
8,600.00	8,566.02	8,593.07	8,566.02	30.18	30.43	103.930	-512.88	254.00	223.45	163.05	60.41	3.699	
8,650.00	8,610.27	8,637.31	8,610.27	30.32	30.58	109.547	-512.88	254.00	230.28	169.64	60.64	3.798	
8,700.00	8,652.32	8,679.36	8,652.32	30.45	30.72	115.606	-512.88	254.00	240.81	179.96	60.84	3.958	
8,750.00	8,691.85	8,718.90	8,691.85	30.58	30.85	121.782	-512.88	254.00	255.66	194.63	61.03	4.189	
8,800.00	8,728.57	8,755.62	8,728.57	30.70	30.97	127.775	-512.88	254.00	275.18	213.99	61.19	4.497	
8,850.00	8,762.19	8,789.24	8,762.19	30.81	31.09	133.354	-512.88	254.00	299.42	238.08	61.34	4.881	

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 115H
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 115H	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 121H - Wellbore #1 - Design #1

Survey Program: 0-MWD+IFR1+SAG+FDIR													Offset Site Error:
Reference Offset													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
8,900.00	8,792.47	8,819.51	8,792.47	30.91	31.19	138.385	-512.88	254.00	328.15	266.68	61.47	5.339	
8,950.00	8,819.16	8,846.20	8,819.16	31.01	31.28	142.816	-512.88	254.00	360.97	299.39	61.58	5.862	
9,000.00	8,842.06	8,869.10	8,842.06	31.10	31.36	146.662	-512.88	254.00	397.41	335.74	61.67	6.444	
9,050.00	8,861.01	8,888.05	8,861.01	31.18	31.42	149.970	-512.88	254.00	436.92	375.17	61.75	7.076	
9,100.00	8,875.85	8,902.89	8,875.85	31.25	31.47	152.802	-512.88	254.00	478.96	417.16	61.80	7.750	
9,150.00	8,886.47	8,913.52	8,886.47	31.32	31.50	155.222	-512.88	254.00	522.99	461.15	61.84	8.457	
9,200.00	8,892.80	8,919.84	8,892.80	31.38	31.53	157.292	-512.88	254.00	568.49	506.63	61.86	9.190	
9,249.73	8,894.78	8,921.83	8,894.78	31.43	31.53	159.056	-512.88	254.00	614.71	552.85	61.86	9.937	
9,300.00	8,894.61	8,921.65	8,894.61	31.48	31.53	160.589	-512.88	254.00	661.99	600.14	61.86	10.702	
9,400.00	8,894.26	8,921.30	8,894.26	31.60	31.53	163.066	-512.88	254.00	757.19	695.34	61.85	12.242	
9,500.00	8,893.91	8,920.95	8,893.91	31.75	31.53	164.986	-512.88	254.00	853.50	791.64	61.85	13.799	
9,600.00	8,893.56	10,448.94	9,742.00	31.92	34.83	90.943	406.07	361.23	909.96	870.37	39.59	22.982	
9,700.00	8,893.21	10,556.14	9,742.00	32.11	35.01	89.689	513.26	361.34	910.51	870.63	39.88	22.831	
9,800.00	8,892.86	10,656.14	9,742.00	32.32	35.20	89.689	613.26	360.79	910.84	870.70	40.13	22.694	
9,900.00	8,892.51	10,756.14	9,742.00	32.56	35.41	89.689	713.26	360.25	911.17	870.75	40.41	22.546	
10,000.00	8,892.17	10,856.14	9,742.00	32.82	35.64	89.689	813.26	359.71	911.49	870.77	40.72	22.385	
10,100.00	8,891.82	10,956.14	9,742.00	33.09	35.89	89.689	913.25	359.17	911.82	870.77	41.05	22.213	
10,200.00	8,891.47	11,056.14	9,742.00	33.39	36.16	89.689	1,013.25	358.63	912.15	870.75	41.40	22.031	
10,300.00	8,891.12	11,156.14	9,742.00	33.71	36.45	89.689	1,113.25	358.08	912.47	870.70	41.78	21.840	
10,400.00	8,890.77	11,256.14	9,742.00	34.04	36.75	89.689	1,213.25	357.54	912.80	870.62	42.18	21.641	
10,500.00	8,890.42	11,356.14	9,742.00	34.40	37.08	89.689	1,313.25	357.00	913.13	870.53	42.60	21.435	
10,600.00	8,890.07	11,456.14	9,742.00	34.77	37.42	89.689	1,413.24	356.46	913.46	870.41	43.04	21.222	
10,700.00	8,889.72	11,556.14	9,742.00	35.16	37.77	89.689	1,513.24	355.91	913.78	870.28	43.51	21.003	
10,800.00	8,889.37	11,656.14	9,742.00	35.57	38.15	89.689	1,613.24	355.37	914.11	870.12	43.99	20.779	
10,900.00	8,889.02	11,756.14	9,742.00	35.99	38.54	89.689	1,713.24	354.83	914.44	869.94	44.50	20.551	
11,000.00	8,888.68	11,856.14	9,742.00	36.43	38.94	89.689	1,813.24	354.29	914.77	869.75	45.02	20.320	
11,100.00	8,888.33	11,956.14	9,742.00	36.89	39.36	89.689	1,913.23	353.75	915.09	869.54	45.56	20.086	
11,200.00	8,887.98	12,056.13	9,742.00	37.36	39.80	89.689	2,013.23	353.20	915.42	869.31	46.12	19.850	
11,300.00	8,887.63	12,156.13	9,742.00	37.84	40.24	89.689	2,113.23	352.66	915.75	869.06	46.69	19.613	
11,400.00	8,887.28	12,256.13	9,742.00	38.34	40.71	89.689	2,213.23	352.12	916.08	868.79	47.28	19.375	
11,500.00	8,886.93	12,356.13	9,742.00	38.85	41.18	89.689	2,313.22	351.58	916.40	868.52	47.89	19.136	
11,600.00	8,886.58	12,456.13	9,742.00	39.37	41.67	89.689	2,413.22	351.03	916.73	868.22	48.51	18.898	
11,700.00	8,886.23	12,556.13	9,742.00	39.90	42.17	89.689	2,513.22	350.49	917.06	867.91	49.15	18.660	
11,800.00	8,885.88	12,656.13	9,742.00	40.45	42.68	89.689	2,613.22	349.95	917.39	867.59	49.80	18.423	
11,900.00	8,885.53	12,756.13	9,742.00	41.01	43.20	89.689	2,713.22	349.41	917.71	867.26	50.46	18.188	
12,000.00	8,885.19	12,856.13	9,742.00	41.58	43.74	89.689	2,813.21	348.86	918.04	866.91	51.13	17.954	
12,100.00	8,884.84	12,956.13	9,742.00	42.15	44.28	89.689	2,913.21	348.32	918.37	866.55	51.82	17.722	
12,200.00	8,884.49	13,056.13	9,742.00	42.74	44.84	89.689	3,013.21	347.78	918.70	866.18	52.52	17.492	
12,300.00	8,884.14	13,156.13	9,742.00	43.34	45.40	89.689	3,113.21	347.24	919.02	865.79	53.23	17.264	
12,400.00	8,883.79	13,256.13	9,742.00	43.94	45.97	89.689	3,213.21	346.70	919.35	865.40	53.95	17.039	
12,500.00	8,883.44	13,356.13	9,742.00	44.56	46.56	89.689	3,313.20	346.15	919.68	864.99	54.69	16.817	
12,600.00	8,883.09	13,456.13	9,742.00	45.18	47.15	89.689	3,413.20	345.61	920.01	864.58	55.43	16.598	
12,700.00	8,882.74	13,556.13	9,742.00	45.81	47.75	89.689	3,513.20	345.07	920.34	864.15	56.18	16.382	
12,800.00	8,882.39	13,656.12	9,742.00	46.45	48.36	89.689	3,613.20	344.53	920.66	863.72	56.94	16.169	
12,900.00	8,882.04	13,756.12	9,742.00	47.10	48.97	89.689	3,713.20	343.98	920.99	863.28	57.71	15.959	
13,000.00	8,881.69	13,856.12	9,742.00	47.75	49.59	89.689	3,813.19	343.44	921.32	862.83	58.49	15.752	
13,100.00	8,881.35	13,956.12	9,742.00	48.41	50.23	89.689	3,913.19	342.90	921.65	862.37	59.28	15.548	
13,200.00	8,881.00	14,056.12	9,742.00	49.08	50.86	89.689	4,013.19	342.36	921.97	861.90	60.07	15.348	
13,300.00	8,880.65	14,156.12	9,742.00	49.75	51.51	89.689	4,113.19	341.82	922.30	861.43	60.87	15.152	
13,400.00	8,880.30	14,256.12	9,742.00	50.43	52.16	89.689	4,213.19	341.27	922.63	860.95	61.68	14.958	
13,500.00	8,879.95	14,356.12	9,742.00	51.11	52.81	89.689	4,313.18	340.73	922.96	860.46	62.50	14.768	

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 115H
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 115H	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 121H - 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 (usft)		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
13,600.00	8,879.60	14,456.12	9,742.00	51.80	53.48	89.689	89.689	89.689	4,413.18	340.19	923.29	859.97	63.32	14.582	
13,700.00	8,879.25	14,556.12	9,742.00	52.50	54.15	89.689	89.689	89.689	4,513.18	339.65	923.61	859.47	64.15	14.398	
13,800.00	8,878.90	14,656.12	9,742.00	53.20	54.82	89.689	89.689	89.689	4,613.18	339.10	923.94	858.96	64.98	14.219	
13,900.00	8,878.55	14,756.12	9,742.00	53.90	55.50	89.689	89.689	89.689	4,713.18	338.56	924.27	858.45	65.82	14.042	
14,000.00	8,878.20	14,856.12	9,742.00	54.61	56.19	89.689	89.689	89.689	4,813.17	338.02	924.60	857.93	66.67	13.869	
14,100.00	8,877.86	14,956.12	9,742.00	55.33	56.87	89.689	89.689	89.689	4,913.17	337.48	924.92	857.40	67.52	13.699	
14,200.00	8,877.51	15,056.12	9,742.00	56.04	57.57	89.689	89.689	89.689	5,013.17	336.94	925.25	856.88	68.38	13.532	
14,300.00	8,877.16	15,156.12	9,742.00	56.77	58.27	89.689	89.689	89.689	5,113.17	336.39	925.58	856.34	69.24	13.368	
14,400.00	8,876.81	15,256.12	9,742.00	57.49	58.97	89.689	89.689	89.689	5,213.16	335.85	925.91	855.80	70.10	13.207	
14,500.00	8,876.46	15,356.11	9,742.00	58.22	59.68	89.689	89.689	89.689	5,313.16	335.31	926.24	855.26	70.98	13.050	
14,600.00	8,876.11	15,456.11	9,742.00	58.96	60.39	89.689	89.689	89.689	5,413.16	334.77	926.56	854.71	71.85	12.896	
14,700.00	8,875.76	15,556.11	9,742.00	59.70	61.11	89.689	89.689	89.689	5,513.16	334.22	926.89	854.16	72.73	12.744	
14,800.00	8,875.41	15,656.11	9,742.00	60.44	61.83	89.689	89.689	89.689	5,613.16	333.68	927.22	853.60	73.62	12.595	
14,900.00	8,875.06	15,756.11	9,742.00	61.18	62.55	89.689	89.689	89.689	5,713.15	333.14	927.55	853.04	74.50	12.450	
15,000.00	8,874.71	15,856.11	9,742.00	61.93	63.28	89.689	89.689	89.689	5,813.15	332.60	927.88	852.48	75.40	12.307	
15,100.00	8,874.36	15,956.11	9,742.00	62.68	64.01	89.689	89.689	89.689	5,913.15	332.05	928.20	851.91	76.29	12.167	
15,200.00	8,874.02	16,056.11	9,742.00	63.43	64.74	89.689	89.689	89.689	6,013.15	331.51	928.53	851.34	77.19	12.029	
15,300.00	8,873.67	16,156.11	9,742.00	64.19	65.48	89.689	89.689	89.689	6,113.15	330.97	928.86	850.77	78.09	11.894	
15,400.00	8,873.32	16,256.11	9,742.00	64.95	66.22	89.689	89.689	89.689	6,213.14	330.43	929.19	850.19	79.00	11.762	
15,500.00	8,872.97	16,356.11	9,742.00	65.71	66.97	89.689	89.689	89.689	6,313.14	329.89	929.52	849.61	79.91	11.632	
15,600.00	8,872.62	16,456.11	9,742.00	66.48	67.71	89.689	89.689	89.689	6,413.14	329.34	929.85	849.03	80.82	11.505	
15,700.00	8,872.27	16,556.11	9,742.00	67.24	68.46	89.689	89.689	89.689	6,513.14	328.80	930.17	848.44	81.73	11.380	
15,800.00	8,871.92	16,656.11	9,742.00	68.01	69.21	89.689	89.689	89.689	6,613.14	328.26	930.50	847.85	82.65	11.258	
15,900.00	8,871.57	16,756.11	9,742.00	68.79	69.97	89.689	89.689	89.689	6,713.13	327.72	930.83	847.26	83.57	11.138	
16,000.00	8,871.22	16,856.11	9,742.00	69.56	70.73	89.689	89.689	89.689	6,813.13	327.17	931.16	846.66	84.50	11.020	
16,100.00	8,870.87	16,956.10	9,742.00	70.34	71.49	89.689	89.689	89.689	6,913.13	326.63	931.49	846.06	85.42	10.905	
16,200.00	8,870.53	17,056.10	9,742.00	71.11	72.25	89.689	89.689	89.689	7,013.13	326.09	931.81	845.46	86.35	10.791	
16,300.00	8,870.18	17,156.10	9,742.00	71.90	73.01	89.689	89.689	89.689	7,113.13	325.55	932.14	844.86	87.28	10.680	
16,400.00	8,869.83	17,256.10	9,742.00	72.68	73.78	89.689	89.689	89.689	7,213.12	325.01	932.47	844.26	88.21	10.571	
16,500.00	8,869.48	17,356.10	9,742.00	73.46	74.55	89.689	89.689	89.689	7,313.12	324.46	932.80	843.65	89.15	10.463	
16,600.00	8,869.13	17,456.10	9,742.00	74.25	75.32	89.689	89.689	89.689	7,413.12	323.92	933.13	843.04	90.09	10.358	
16,700.00	8,868.78	17,556.10	9,742.00	75.04	76.09	89.689	89.689	89.689	7,513.12	323.38	933.46	842.43	91.03	10.255	
16,800.00	8,868.43	17,656.10	9,742.00	75.83	76.87	89.689	89.689	89.689	7,613.11	322.84	933.78	841.82	91.97	10.154	
16,900.00	8,868.08	17,756.10	9,742.00	76.62	77.65	89.689	89.689	89.689	7,713.11	322.29	934.11	841.20	92.91	10.054	
17,000.00	8,867.73	17,856.10	9,742.00	77.41	78.42	89.689	89.689	89.689	7,813.11	321.75	934.44	840.59	93.86	9.956	
17,100.00	8,867.38	17,956.10	9,742.00	78.21	79.21	89.689	89.689	89.689	7,913.11	321.21	934.77	839.97	94.80	9.860	
17,200.00	8,867.03	18,056.10	9,742.00	79.00	79.99	89.689	89.689	89.689	8,013.11	320.67	935.10	839.35	95.75	9.766	
17,300.00	8,866.69	18,156.10	9,742.00	79.80	80.77	89.689	89.689	89.689	8,113.10	320.13	935.43	838.72	96.70	9.673	
17,400.00	8,866.34	18,256.10	9,742.00	80.60	81.56	89.689	89.689	89.689	8,213.10	319.58	935.75	838.10	97.65	9.582	
17,500.00	8,865.99	18,356.10	9,742.00	81.40	82.35	89.689	89.689	89.689	8,313.10	319.04	936.08	837.48	98.61	9.493	
17,600.00	8,865.64	18,456.10	9,742.00	82.20	83.14	89.689	89.689	89.689	8,413.10	318.50	936.41	836.85	99.56	9.405	
17,700.00	8,865.29	18,556.10	9,742.00	83.01	83.93	89.689	89.689	89.689	8,513.10	317.96	936.74	836.22	100.52	9.319	
17,800.00	8,864.94	18,656.09	9,742.00	83.81	84.72	89.689	89.689	89.689	8,613.09	317.41	937.07	835.59	101.48	9.234	
17,900.00	8,864.59	18,756.09	9,742.00	84.62	85.51	89.689	89.689	89.689	8,713.09	316.87	937.40	834.96	102.44	9.151	
18,000.00	8,864.24	18,856.09	9,742.00	85.42	86.31	89.689	89.689	89.689	8,813.09	316.33	937.73	834.33	103.40	9.069	
18,100.00	8,863.89	18,956.09	9,742.00	86.23	87.11	89.689	89.689	89.689	8,913.09	315.79	938.05	833.69	104.36	8.989	
18,200.00	8,863.54	19,056.09	9,742.00	87.04	87.90	89.689	89.689	89.689	9,013.09	315.24	938.38	833.06	105.32	8.909	
18,300.00	8,863.20	19,156.09	9,742.00	87.85	88.70	89.689	89.689	89.689	9,113.08	314.70	938.71	832.42	106.29	8.832	
18,400.00	8,862.85	19,256.09	9,742.00	88.66	89.50	89.689	89.689	89.689	9,213.08	314.16	939.04	831.78	107.26	8.755	
18,500.00	8,862.50	19,356.09	9,742.00	89.47	90.30	89.689	89.689	89.689	9,313.08	313.62	939.37	831.15	108.22	8.680	

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 115H
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 115H	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 121H - Wellbore #1 - Design #1

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

Offset Site Error: 0.00 usft

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
18,600.00	8,862.15	19,456.09	9,742.00	90.29	91.11	89.689	9,413.08	313.08	939.70	830.51	109.19	8.606	
18,700.00	8,861.80	19,556.09	9,742.00	91.10	91.91	89.689	9,513.08	312.53	940.03	829.87	110.16	8.533	
18,800.00	8,861.45	19,656.09	9,742.00	91.92	92.72	89.689	9,613.07	311.99	940.35	829.22	111.13	8.462	
18,900.00	8,861.10	19,756.09	9,742.00	92.74	93.52	89.689	9,713.07	311.45	940.68	828.58	112.10	8.391	
19,000.00	8,860.75	19,856.09	9,742.00	93.55	94.33	89.689	9,813.07	310.91	941.01	827.94	113.07	8.322	
19,100.00	8,860.40	19,956.09	9,742.00	94.37	95.14	89.689	9,913.07	310.36	941.34	827.29	114.05	8.254	
19,175.37	8,860.14	20,031.45	9,742.00	94.99	95.75	89.689	9,988.43	309.96	941.59	826.81	114.78	8.203	

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



Anticollision Report



Company:	Civitas Permian Operating, LLC	Local Co-ordinate Reference:	Well Double Stamp Fed Com 115H
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 115H	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

Offset Well Error: 0.00 usft

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	0.00	0.00	0.00	0.00	180.000	-25.00	0.00	25.00				
100.00	100.00	100.00	100.00	0.26	0.26	180.000	-25.00	0.00	25.00	24.47	0.53	47.442	
200.00	200.00	200.00	200.00	0.62	0.62	180.000	-25.00	0.00	25.00	23.76	1.24	20.098	
300.00	300.00	300.00	300.00	0.98	0.98	180.000	-25.00	0.00	25.00	23.04	1.96	12.750	
400.00	400.00	400.00	400.00	1.34	1.34	180.000	-25.00	0.00	25.00	22.32	2.68	9.336	
500.00	500.00	500.00	500.00	1.70	1.70	180.000	-25.00	0.00	25.00	21.61	3.39	7.364	
600.00	600.00	600.00	600.00	2.06	2.06	180.000	-25.00	0.00	25.00	20.89	4.11	6.080	
700.00	700.00	700.00	700.00	2.41	2.41	180.000	-25.00	0.00	25.00	20.17	4.83	5.177	
800.00	800.00	800.00	800.00	2.77	2.77	180.000	-25.00	0.00	25.00	19.45	5.55	4.508	
900.00	900.00	900.00	900.00	3.13	3.13	180.000	-25.00	0.00	25.00	18.74	6.26	3.992	
1,000.00	1,000.00	1,000.00	1,000.00	3.49	3.49	180.000	-25.00	0.00	25.00	18.02	6.98	3.582	
1,100.00	1,100.00	1,100.00	1,100.00	3.85	3.85	180.000	-25.00	0.00	25.00	17.30	7.70	3.248	
1,200.00	1,200.00	1,200.00	1,200.00	4.21	4.21	180.000	-25.00	0.00	25.00	16.59	8.41	2.971 CC	
1,300.00	1,300.00	1,299.71	1,299.71	4.57	4.55	-178.502	-25.55	-0.67	25.56	16.45	9.11	2.805 ES	
1,400.00	1,400.00	1,399.36	1,399.32	4.92	4.88	-174.393	-27.21	-2.67	27.35	17.55	9.80	2.790 SF	
1,500.00	1,500.00	1,498.90	1,498.76	5.28	5.22	-168.672	-29.97	-6.00	30.59	20.10	10.49	2.916	
1,600.00	1,599.99	1,598.28	1,597.96	5.62	5.55	-161.978	-33.82	-10.66	34.71	23.55	11.16	3.110	
1,700.00	1,699.96	1,697.49	1,696.87	5.95	5.89	-154.434	-38.77	-16.63	39.24	27.42	11.81	3.322	
1,800.00	1,799.86	1,796.51	1,795.43	6.28	6.23	-146.491	-44.78	-23.90	44.54	32.08	12.46	3.575	
1,900.00	1,899.68	1,895.29	1,893.58	6.61	6.58	-138.590	-51.87	-32.45	50.97	37.86	13.11	3.888	
2,000.00	1,999.37	1,993.79	1,991.25	6.94	6.92	-131.096	-60.01	-42.29	58.78	45.02	13.75	4.273	
2,100.00	2,098.90	2,093.11	2,089.61	7.28	7.27	-124.193	-68.79	-52.89	67.34	52.91	14.43	4.666	
2,100.18	2,099.08	2,093.29	2,089.79	7.28	7.27	-124.181	-68.80	-52.91	67.36	52.92	14.43	4.667	
2,200.00	2,198.36	2,192.44	2,187.99	7.62	7.63	-118.306	-77.56	-63.49	76.27	61.16	15.12	5.045	
2,300.00	2,297.81	2,291.77	2,286.36	7.96	7.98	-113.694	-86.34	-74.09	85.83	70.02	15.81	5.429	
2,400.00	2,397.26	2,391.11	2,384.74	8.30	8.34	-110.026	-95.12	-84.69	95.82	79.31	16.50	5.806	
2,500.00	2,496.71	2,490.44	2,483.11	8.65	8.69	-107.062	-103.90	-95.30	106.12	88.92	17.20	6.169	
2,600.00	2,596.16	2,589.77	2,581.49	9.00	9.05	-104.630	-112.68	-105.90	116.66	98.75	17.91	6.515	
2,700.00	2,695.62	2,689.11	2,679.86	9.35	9.41	-102.605	-121.45	-116.50	127.36	108.75	18.61	6.844	
2,800.00	2,795.07	2,788.44	2,778.24	9.70	9.77	-100.896	-130.23	-127.10	138.20	118.88	19.32	7.154	
2,900.00	2,894.52	2,887.77	2,876.61	10.05	10.13	-99.438	-139.01	-137.71	149.15	129.12	20.03	7.448	
3,000.00	2,993.97	2,987.10	2,974.99	10.41	10.50	-98.180	-147.79	-148.31	160.17	139.43	20.74	7.724	
3,100.00	3,093.42	3,086.44	3,073.36	10.76	10.86	-97.085	-156.57	-158.91	171.26	149.81	21.45	7.985	
3,200.00	3,192.87	3,185.77	3,171.73	11.12	11.22	-96.124	-165.34	-169.51	182.41	160.25	22.16	8.230	
3,300.00	3,292.33	3,285.10	3,270.11	11.48	11.59	-95.274	-174.12	-180.11	193.60	170.72	22.88	8.462	
3,400.00	3,391.78	3,384.44	3,368.48	11.83	11.95	-94.517	-182.90	-190.72	204.83	181.24	23.59	8.681	
3,500.00	3,491.23	3,483.77	3,466.86	12.19	12.32	-93.839	-191.68	-201.32	216.09	191.78	24.31	8.888	
3,600.00	3,590.68	3,583.10	3,565.23	12.55	12.68	-93.229	-200.46	-211.92	227.38	202.35	25.03	9.084	
3,700.00	3,690.13	3,682.44	3,663.61	12.91	13.05	-92.676	-209.23	-222.52	238.69	212.94	25.75	9.270	
3,800.00	3,789.59	3,781.77	3,761.98	13.27	13.42	-92.174	-218.01	-233.13	250.03	223.56	26.47	9.446	
3,900.00	3,889.04	3,881.10	3,860.36	13.63	13.78	-91.715	-226.79	-243.73	261.38	234.18	27.19	9.613	
4,000.00	3,988.49	3,980.43	3,958.73	13.99	14.15	-91.294	-235.57	-254.33	272.74	244.83	27.91	9.771	
4,100.00	4,087.94	4,079.77	4,057.11	14.35	14.52	-90.908	-244.35	-264.93	284.12	255.48	28.63	9.922	
4,200.00	4,187.39	4,179.10	4,155.48	14.72	14.89	-90.551	-253.12	-275.54	295.51	266.15	29.36	10.066	
4,300.00	4,286.84	4,278.43	4,253.86	15.08	15.25	-90.220	-261.90	-286.14	306.91	276.83	30.08	10.203	
4,400.00	4,386.30	4,377.77	4,352.23	15.44	15.62	-89.913	-270.68	-296.74	318.32	287.51	30.81	10.333	
4,500.00	4,485.75	4,477.10	4,450.60	15.80	15.99	-89.628	-279.46	-307.34	329.74	298.21	31.53	10.458	
4,600.00	4,585.20	4,576.43	4,548.98	16.17	16.36	-89.362	-288.23	-317.94	341.16	308.91	32.26	10.577	
4,700.00	4,684.65	4,675.76	4,647.35	16.53	16.73	-89.113	-297.01	-328.55	352.60	319.61	32.98	10.691	
4,800.00	4,784.10	4,775.10	4,745.73	16.89	17.10	-88.879	-305.79	-339.15	364.03	330.33	33.71	10.800	
4,900.00	4,883.56	4,874.43	4,844.10	17.26	17.47	-88.660	-314.57	-349.75	375.48	341.05	34.43	10.904	

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 115H
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 115H	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													Offset Site Error: 0.00 usft
Rule Assigned: Distance Between Centres (usft) Between Ellipses (usft) Minimum Separation (usft) Separation Factor													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)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,983.01	4,973.76	4,942.48	17.62	17.83	-88.454	-323.35	-360.35	386.93	351.77	35.16	11.005	
5,100.00	5,082.46	5,073.10	5,040.85	17.99	18.20	-88.260	-332.12	-370.96	398.38	362.50	35.89	11.101	
5,200.00	5,181.91	5,172.43	5,139.23	18.35	18.57	-88.077	-340.90	-381.56	409.84	373.23	36.62	11.193	
5,300.00	5,281.36	5,271.76	5,237.60	18.72	18.94	-87.903	-349.68	-392.16	421.31	383.96	37.34	11.282	
5,400.00	5,380.82	5,371.09	5,335.98	19.08	19.31	-87.739	-358.46	-402.76	432.77	394.70	38.07	11.367	
5,500.00	5,480.27	5,470.43	5,434.35	19.45	19.68	-87.583	-367.24	-413.37	444.24	405.44	38.80	11.450	
5,600.00	5,579.72	5,569.76	5,532.73	19.81	20.05	-87.435	-376.01	-423.97	455.72	416.19	39.53	11.529	
5,700.00	5,679.17	5,669.09	5,631.10	20.18	20.42	-87.295	-384.79	-434.57	467.19	426.93	40.26	11.605	
5,800.00	5,778.62	5,768.43	5,729.47	20.54	20.79	-87.161	-393.57	-445.17	478.67	437.68	40.99	11.679	
5,900.00	5,878.07	5,867.76	5,827.85	20.91	21.16	-87.033	-402.35	-455.78	490.15	448.44	41.72	11.750	
6,000.00	5,977.53	5,967.09	5,926.22	21.27	21.53	-86.912	-411.13	-466.38	501.63	459.19	42.45	11.818	
6,100.00	6,076.98	6,066.42	6,024.60	21.64	21.91	-86.795	-419.90	-476.98	513.12	469.95	43.17	11.885	
6,200.00	6,176.43	6,165.76	6,122.97	22.01	22.28	-86.684	-428.68	-487.58	524.61	480.70	43.90	11.949	
6,300.00	6,275.88	6,265.09	6,221.35	22.37	22.65	-86.578	-437.46	-498.18	536.10	491.46	44.64	12.011	
6,400.00	6,375.33	6,364.42	6,319.72	22.74	23.02	-86.476	-446.24	-508.79	547.59	502.22	45.37	12.071	
6,425.72	6,400.92	6,389.97	6,345.03	22.83	23.11	-86.450	-448.50	-511.51	550.54	504.99	45.55	12.086	
6,500.00	6,474.83	6,463.77	6,418.11	23.10	23.39	-86.427	-455.02	-519.39	559.02	512.93	46.09	12.128	
6,600.00	6,574.49	6,563.13	6,516.51	23.47	23.76	-86.549	-463.80	-530.00	570.25	523.43	46.82	12.179	
6,700.00	6,674.27	6,662.47	6,614.90	23.83	24.13	-86.836	-472.58	-540.60	581.26	533.72	47.54	12.226	
6,800.00	6,774.15	6,762.38	6,713.84	24.19	24.50	-87.286	-481.40	-551.26	592.09	543.83	48.27	12.267	
6,900.00	6,874.11	6,870.11	6,820.68	24.55	24.90	-87.882	-490.19	-561.87	601.97	552.93	49.04	12.274	
7,000.00	6,974.10	6,978.18	6,928.11	24.90	25.30	-88.497	-497.71	-570.96	610.32	560.51	49.81	12.253	
7,025.90	7,000.00	7,006.23	6,956.02	24.99	25.40	-88.660	-499.45	-573.06	612.23	562.22	50.00	12.243	
7,100.00	7,074.10	7,086.58	7,036.06	25.23	25.70	-89.091	-503.96	-578.51	617.18	566.63	50.55	12.210	
7,200.00	7,174.10	7,195.31	7,144.51	25.56	26.09	-89.557	-508.92	-584.50	622.64	571.36	51.27	12.144	
7,300.00	7,274.10	7,304.29	7,253.34	25.89	26.48	-89.894	-512.57	-588.91	626.67	574.68	51.99	12.054	
7,400.00	7,374.10	7,413.45	7,362.44	26.22	26.87	-90.107	-514.91	-591.73	629.25	576.56	52.70	11.941	
7,500.00	7,474.10	7,522.72	7,471.69	26.55	27.25	-90.199	-515.92	-592.95	630.37	576.98	53.40	11.806	
7,600.00	7,574.10	7,625.12	7,574.10	26.88	27.59	-90.203	-515.96	-593.00	630.42	576.36	54.06	11.661	
7,700.00	7,674.10	7,725.12	7,674.10	27.21	27.92	-90.203	-515.96	-593.00	630.42	575.70	54.72	11.520	
7,800.00	7,774.10	7,825.12	7,774.10	27.55	28.24	-90.203	-515.96	-593.00	630.42	575.04	55.39	11.382	
7,900.00	7,874.10	7,925.12	7,874.10	27.88	28.57	-90.203	-515.96	-593.00	630.42	574.37	56.05	11.247	
8,000.00	7,974.10	8,025.12	7,974.10	28.21	28.90	-90.203	-515.96	-593.00	630.42	573.71	56.72	11.115	
8,100.00	8,074.10	8,125.12	8,074.10	28.55	29.23	-90.203	-515.96	-593.00	630.42	573.04	57.38	10.986	
8,200.00	8,174.10	8,225.12	8,174.10	28.88	29.56	-90.203	-515.96	-593.00	630.42	572.37	58.05	10.860	
8,300.00	8,274.10	8,325.12	8,274.10	29.22	29.89	-90.203	-515.96	-593.00	630.42	571.70	58.72	10.736	
8,347.73	8,321.83	8,372.86	8,321.83	29.38	30.05	-90.203	-515.96	-593.00	630.42	571.38	59.04	10.678	
8,350.00	8,324.10	8,375.12	8,324.10	29.39	30.06	-90.203	-515.96	-593.00	630.42	571.37	59.05	10.675	
8,385.36	8,359.43	8,410.46	8,359.43	29.50	30.18	-90.315	-515.96	-593.00	630.42	571.13	59.29	10.633	
8,400.00	8,374.02	8,425.05	8,374.02	29.55	30.23	-90.419	-515.96	-593.00	630.42	571.04	59.38	10.616	
8,450.00	8,423.55	8,474.58	8,423.55	29.72	30.39	-91.030	-515.96	-593.00	630.47	570.76	59.71	10.560	
8,500.00	8,472.31	8,523.34	8,472.31	29.87	30.55	-92.030	-515.96	-593.00	630.70	570.69	60.02	10.509	
8,550.00	8,519.92	8,570.95	8,519.92	30.03	30.71	-93.411	-515.96	-593.00	631.34	571.03	60.31	10.468	
8,600.00	8,566.02	8,617.05	8,566.02	30.18	30.87	-95.157	-515.96	-593.00	632.68	572.09	60.59	10.442	
8,650.00	8,610.27	8,661.30	8,610.27	30.32	31.01	-97.248	-515.96	-593.00	635.07	574.21	60.86	10.435	
8,700.00	8,652.32	8,703.35	8,652.32	30.45	31.15	-99.655	-515.96	-593.00	638.89	577.79	61.10	10.456	
8,750.00	8,691.85	8,742.88	8,691.85	30.58	31.29	-102.338	-515.96	-593.00	644.56	583.24	61.33	10.510	
8,800.00	8,728.57	8,779.60	8,728.57	30.70	31.41	-105.253	-515.96	-593.00	652.47	590.94	61.53	10.604	
8,850.00	8,762.19	8,813.22	8,762.19	30.81	31.52	-108.342	-515.96	-593.00	662.97	601.25	61.72	10.742	
8,900.00	8,792.47	8,843.49	8,792.47	30.91	31.62	-111.548	-515.96	-593.00	676.34	614.46	61.88	10.930	

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 115H
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 115H	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		
8,950.00	8,819.16	8,870.18	8,819.16	31.01	31.71	-114.808	-515.96	-593.00	692.77	630.75	62.02	11.171			
9,000.00	8,842.06	8,893.09	8,842.06	31.10	31.79	-118.061	-515.96	-593.00	712.34	650.21	62.13	11.465			
9,050.00	8,861.01	8,912.03	8,861.01	31.18	31.85	-121.254	-515.96	-593.00	735.01	672.79	62.22	11.813			
9,100.00	8,875.85	8,926.87	8,875.85	31.25	31.90	-124.339	-515.96	-593.00	760.65	698.37	62.29	12.212			
9,150.00	8,886.47	8,937.50	8,886.47	31.32	31.94	-127.280	-515.96	-593.00	789.02	726.69	62.33	12.659			
9,200.00	8,892.80	8,943.83	8,892.80	31.38	31.96	-130.050	-515.96	-593.00	819.80	757.45	62.35	13.148			
9,249.73	8,894.78	8,945.81	8,894.78	31.43	31.97	-132.619	-515.96	-593.00	852.41	790.06	62.35	13.671			
9,300.00	8,894.61	8,945.64	8,894.61	31.48	31.97	-135.020	-515.96	-593.00	887.02	824.68	62.35	14.227			
9,400.00	8,894.26	8,945.29	8,894.26	31.60	31.96	-139.266	-515.96	-593.00	960.00	897.66	62.35	15.398			
9,500.00	8,893.91	8,944.94	8,893.91	31.75	31.96	-142.895	-515.96	-593.00	1,037.50	975.15	62.35	16.639			
9,600.00	8,893.56	10,463.82	9,734.00	31.92	34.92	-90.311	407.89	-628.05	1,068.87	1,020.62	48.25	22.153			
9,700.00	8,893.21	10,563.82	9,734.00	32.11	35.07	-90.311	507.89	-628.59	1,069.14	1,020.63	48.51	22.042			
9,800.00	8,892.86	10,663.82	9,734.00	32.32	35.24	-90.311	607.89	-629.14	1,069.41	1,020.62	48.79	21.917			
9,900.00	8,892.51	10,763.82	9,734.00	32.56	35.44	-90.311	707.89	-629.68	1,069.68	1,020.57	49.12	21.779			
10,000.00	8,892.17	10,863.82	9,734.00	32.82	35.66	-90.311	807.88	-630.22	1,069.95	1,020.49	49.47	21.629			
10,100.00	8,891.82	10,963.82	9,734.00	33.09	35.90	-90.311	907.88	-630.76	1,070.23	1,020.38	49.85	21.469			
10,200.00	8,891.47	11,063.82	9,734.00	33.39	36.16	-90.311	1,007.88	-631.31	1,070.50	1,020.24	50.26	21.298			
10,300.00	8,891.12	11,163.82	9,734.00	33.71	36.44	-90.311	1,107.88	-631.85	1,070.77	1,020.07	50.70	21.118			
10,400.00	8,890.77	11,263.81	9,734.00	34.04	36.74	-90.311	1,207.88	-632.39	1,071.04	1,019.87	51.18	20.929			
10,500.00	8,890.42	11,363.81	9,734.00	34.40	37.05	-90.311	1,307.87	-632.94	1,071.31	1,019.64	51.67	20.732			
10,600.00	8,890.07	11,463.81	9,734.00	34.77	37.39	-90.311	1,407.87	-633.48	1,071.59	1,019.39	52.20	20.529			
10,700.00	8,889.72	11,563.81	9,734.00	35.16	37.74	-90.311	1,507.87	-634.02	1,071.86	1,019.11	52.75	20.320			
10,800.00	8,889.37	11,663.81	9,734.00	35.57	38.11	-90.311	1,607.87	-634.56	1,072.13	1,018.81	53.32	20.106			
10,900.00	8,889.02	11,763.81	9,734.00	35.99	38.49	-90.311	1,707.87	-635.11	1,072.40	1,018.48	53.92	19.887			
11,000.00	8,888.68	11,863.81	9,734.00	36.43	38.89	-90.311	1,807.86	-635.65	1,072.68	1,018.13	54.55	19.665			
11,100.00	8,888.33	11,963.81	9,734.00	36.89	39.31	-90.311	1,907.86	-636.19	1,072.95	1,017.75	55.19	19.439			
11,200.00	8,887.98	12,063.81	9,734.00	37.36	39.74	-90.311	2,007.86	-636.74	1,073.22	1,017.36	55.86	19.212			
11,300.00	8,887.63	12,163.81	9,734.00	37.84	40.18	-90.311	2,107.86	-637.28	1,073.49	1,016.94	56.55	18.982			
11,400.00	8,887.28	12,263.81	9,734.00	38.34	40.64	-90.311	2,207.85	-637.82	1,073.77	1,016.50	57.26	18.752			
11,500.00	8,886.93	12,363.81	9,734.00	38.85	41.11	-90.311	2,307.85	-638.36	1,074.04	1,016.05	57.99	18.521			
11,600.00	8,886.58	12,463.81	9,734.00	39.37	41.60	-90.311	2,407.85	-638.91	1,074.31	1,015.57	58.74	18.290			
11,700.00	8,886.23	12,563.81	9,734.00	39.90	42.09	-90.311	2,507.85	-639.45	1,074.58	1,015.08	59.50	18.059			
11,800.00	8,885.88	12,663.81	9,734.00	40.45	42.60	-90.311	2,607.85	-639.99	1,074.86	1,014.57	60.29	17.829			
11,900.00	8,885.53	12,763.81	9,734.00	41.01	43.12	-90.311	2,707.84	-640.54	1,075.13	1,014.04	61.09	17.600			
12,000.00	8,885.19	12,863.80	9,734.00	41.58	43.65	-90.311	2,807.84	-641.08	1,075.40	1,013.50	61.90	17.373			
12,100.00	8,884.84	12,963.80	9,734.00	42.15	44.19	-90.311	2,907.84	-641.62	1,075.67	1,012.94	62.73	17.147			
12,200.00	8,884.49	13,063.80	9,734.00	42.74	44.74	-90.311	3,007.84	-642.16	1,075.95	1,012.37	63.58	16.923			
12,300.00	8,884.14	13,163.80	9,734.00	43.34	45.30	-90.311	3,107.84	-642.71	1,076.22	1,011.78	64.44	16.701			
12,400.00	8,883.79	13,263.80	9,734.00	43.94	45.87	-90.311	3,207.83	-643.25	1,076.49	1,011.18	65.31	16.482			
12,500.00	8,883.44	13,363.80	9,734.00	44.56	46.45	-90.311	3,307.83	-643.79	1,076.77	1,010.57	66.20	16.266			
12,600.00	8,883.09	13,463.80	9,734.00	45.18	47.04	-90.311	3,407.83	-644.34	1,077.04	1,009.94	67.10	16.052			
12,700.00	8,882.74	13,563.80	9,734.00	45.81	47.64	-90.311	3,507.83	-644.88	1,077.31	1,009.30	68.01	15.841			
12,800.00	8,882.39	13,663.80	9,734.00	46.45	48.25	-90.311	3,607.83	-645.42	1,077.58	1,008.65	68.93	15.633			
12,900.00	8,882.04	13,763.80	9,734.00	47.10	48.86	-90.311	3,707.82	-645.96	1,077.86	1,007.99	69.86	15.428			
13,000.00	8,881.69	13,863.80	9,734.00	47.75	49.48	-90.311	3,807.82	-646.51	1,078.13	1,007.32	70.81	15.226			
13,100.00	8,881.35	13,963.80	9,734.00	48.41	50.11	-90.311	3,907.82	-647.05	1,078.40	1,006.64	71.76	15.028			
13,200.00	8,881.00	14,063.80	9,734.00	49.08	50.74	-90.311	4,007.82	-647.59	1,078.68	1,005.95	72.72	14.832			
13,300.00	8,880.65	14,163.80	9,734.00	49.75	51.39	-90.311	4,107.82	-648.14	1,078.95	1,005.25	73.70	14.640			
13,400.00	8,880.30	14,263.80	9,734.00	50.43	52.03	-90.311	4,207.81	-648.68	1,079.22	1,004.54	74.68	14.451			
13,500.00	8,879.95	14,363.80	9,734.00	51.11	52.69	-90.311	4,307.81	-649.22	1,079.50	1,003.83	75.67	14.266			
13,600.00	8,879.60	14,463.80	9,734.00	51.80	53.35	-90.311	4,407.81	-649.76	1,079.77	1,003.10	76.67	14.084			

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 115H
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 115H	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

Offset Well Error: 0.00 usft

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)			
13,700.00	8,879.25	14,563.79	9,734.00	52.50	54.02	-90.311	4,507.81	-650.31	1,080.04	1,002.37	77.67	13.905	
13,800.00	8,878.90	14,663.79	9,734.00	53.20	54.69	-90.311	4,607.81	-650.85	1,080.32	1,001.63	78.69	13.729	
13,900.00	8,878.55	14,763.79	9,734.00	53.90	55.37	-90.311	4,707.80	-651.39	1,080.59	1,000.88	79.71	13.557	
14,000.00	8,878.20	14,863.79	9,734.00	54.61	56.05	-90.311	4,807.80	-651.94	1,080.87	1,000.13	80.74	13.387	
14,100.00	8,877.86	14,963.79	9,734.00	55.33	56.74	-90.311	4,907.80	-652.48	1,081.14	999.37	81.77	13.221	
14,200.00	8,877.51	15,063.79	9,734.00	56.04	57.43	-90.311	5,007.80	-653.02	1,081.41	998.60	82.81	13.058	
14,300.00	8,877.16	15,163.79	9,734.00	56.77	58.13	-90.311	5,107.79	-653.56	1,081.69	997.83	83.86	12.899	
14,400.00	8,876.81	15,263.79	9,734.00	57.49	58.83	-90.311	5,207.79	-654.11	1,081.96	997.05	84.91	12.742	
14,500.00	8,876.46	15,363.79	9,734.00	58.22	59.54	-90.311	5,307.79	-654.65	1,082.23	996.26	85.97	12.588	
14,600.00	8,876.11	15,463.79	9,734.00	58.96	60.25	-90.311	5,407.79	-655.19	1,082.51	995.47	87.04	12.437	
14,700.00	8,875.76	15,563.79	9,734.00	59.70	60.96	-90.311	5,507.79	-655.74	1,082.78	994.68	88.11	12.289	
14,800.00	8,875.41	15,663.79	9,734.00	60.44	61.68	-90.311	5,607.78	-656.28	1,083.06	993.87	89.18	12.144	
14,900.00	8,875.06	15,763.79	9,734.00	61.18	62.40	-90.311	5,707.78	-656.82	1,083.33	993.07	90.26	12.002	
15,000.00	8,874.71	15,863.79	9,734.00	61.93	63.13	-90.311	5,807.78	-657.36	1,083.60	992.26	91.34	11.863	
15,100.00	8,874.36	15,963.79	9,734.00	62.68	63.86	-90.311	5,907.78	-657.91	1,083.88	991.44	92.43	11.726	
15,200.00	8,874.02	16,063.79	9,734.00	63.43	64.59	-90.311	6,007.78	-658.45	1,084.15	990.63	93.53	11.592	
15,300.00	8,873.67	16,163.78	9,734.00	64.19	65.33	-90.311	6,107.77	-658.99	1,084.43	989.80	94.62	11.460	
15,400.00	8,873.32	16,263.78	9,734.00	64.95	66.07	-90.311	6,207.77	-659.54	1,084.70	988.98	95.73	11.331	
15,500.00	8,872.97	16,363.78	9,734.00	65.71	66.81	-90.311	6,307.77	-660.08	1,084.97	988.14	96.83	11.205	
15,600.00	8,872.62	16,463.78	9,734.00	66.48	67.56	-90.311	6,407.77	-660.62	1,085.25	987.31	97.94	11.081	
15,700.00	8,872.27	16,563.78	9,734.00	67.24	68.30	-90.311	6,507.77	-661.16	1,085.52	986.47	99.05	10.959	
15,800.00	8,871.92	16,663.78	9,734.00	68.01	69.06	-90.311	6,607.76	-661.71	1,085.80	985.63	100.17	10.840	
15,900.00	8,871.57	16,763.78	9,734.00	68.79	69.81	-90.311	6,707.76	-662.25	1,086.07	984.79	101.29	10.723	
16,000.00	8,871.22	16,863.78	9,734.00	69.56	70.57	-90.311	6,807.76	-662.79	1,086.35	983.94	102.41	10.608	
16,100.00	8,870.87	16,963.78	9,734.00	70.34	71.32	-90.311	6,907.76	-663.34	1,086.62	983.09	103.53	10.495	
16,200.00	8,870.53	17,063.78	9,734.00	71.11	72.09	-90.311	7,007.76	-663.88	1,086.90	982.23	104.66	10.385	
16,300.00	8,870.18	17,163.78	9,734.00	71.90	72.85	-90.311	7,107.75	-664.42	1,087.17	981.38	105.79	10.276	
16,400.00	8,869.83	17,263.78	9,734.00	72.68	73.62	-90.311	7,207.75	-664.96	1,087.44	980.52	106.93	10.170	
16,500.00	8,869.48	17,363.78	9,734.00	73.46	74.38	-90.311	7,307.75	-665.51	1,087.72	979.66	108.06	10.065	
16,600.00	8,869.13	17,463.78	9,734.00	74.25	75.15	-90.311	7,407.75	-666.05	1,087.99	978.79	109.20	9.963	
16,700.00	8,868.78	17,563.78	9,734.00	75.04	75.93	-90.311	7,507.74	-666.59	1,088.27	977.92	110.35	9.862	
16,800.00	8,868.43	17,663.78	9,734.00	75.83	76.70	-90.311	7,607.74	-667.13	1,088.54	977.05	111.49	9.764	
16,900.00	8,868.08	17,763.78	9,734.00	76.62	77.48	-90.311	7,707.74	-667.68	1,088.82	976.18	112.64	9.667	
17,000.00	8,867.73	17,863.77	9,734.00	77.41	78.26	-90.311	7,807.74	-668.22	1,089.09	975.31	113.78	9.572	
17,100.00	8,867.38	17,963.77	9,734.00	78.21	79.04	-90.311	7,907.74	-668.76	1,089.37	974.43	114.94	9.478	
17,200.00	8,867.03	18,063.77	9,734.00	79.00	79.82	-90.311	8,007.73	-669.31	1,089.64	973.56	116.09	9.386	
17,300.00	8,866.69	18,163.77	9,734.00	79.80	80.60	-90.311	8,107.73	-669.85	1,089.92	972.68	117.24	9.296	
17,400.00	8,866.34	18,263.77	9,734.00	80.60	81.39	-90.311	8,207.73	-670.39	1,090.19	971.79	118.40	9.208	
17,500.00	8,865.99	18,363.77	9,734.00	81.40	82.17	-90.311	8,307.73	-670.93	1,090.47	970.91	119.56	9.121	
17,600.00	8,865.64	18,463.77	9,734.00	82.20	82.96	-90.311	8,407.73	-671.48	1,090.74	970.02	120.72	9.035	
17,700.00	8,865.29	18,563.77	9,734.00	83.01	83.75	-90.311	8,507.72	-672.02	1,091.02	969.14	121.88	8.951	
17,800.00	8,864.94	18,663.77	9,734.00	83.81	84.54	-90.311	8,607.72	-672.56	1,091.29	968.25	123.05	8.869	
17,900.00	8,864.59	18,763.77	9,734.00	84.62	85.34	-90.311	8,707.72	-673.11	1,091.57	967.36	124.21	8.788	
18,000.00	8,864.24	18,863.77	9,734.00	85.42	86.13	-90.311	8,807.72	-673.65	1,091.85	966.47	125.38	8.708	
18,100.00	8,863.89	18,963.77	9,734.00	86.23	86.93	-90.311	8,907.72	-674.19	1,092.12	965.57	126.55	8.630	
18,200.00	8,863.54	19,063.77	9,734.00	87.04	87.73	-90.311	9,007.71	-674.73	1,092.40	964.68	127.72	8.553	
18,300.00	8,863.20	19,163.77	9,734.00	87.85	88.52	-90.311	9,107.71	-675.28	1,092.67	963.78	128.89	8.478	
18,400.00	8,862.85	19,263.77	9,734.00	88.66	89.32	-90.311	9,207.71	-675.82	1,092.95	962.89	130.06	8.403	
18,500.00	8,862.50	19,363.77	9,734.00	89.47	90.13	-90.311	9,307.71	-676.36	1,093.22	961.99	131.24	8.330	
18,600.00	8,862.15	19,463.76	9,734.00	90.29	90.93	-90.311	9,407.71	-676.91	1,093.50	961.09	132.41	8.258	

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 115H
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 115H	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
Reference	Offset	Semi Major Axis		Rule Assigned:										
Measured	Vertical	Measured	Vertical	Reference	Offset	Azimuth	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			from North	+N/-S	+E/-W	Between	Between	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)			
									(usft)	(usft)				
18,700.00	8,861.80	19,563.76	9,734.00	91.10	91.73	-90.311	9,507.70	-677.45	1,093.77	960.19	133.59	8.188		
18,800.00	8,861.45	19,663.76	9,734.00	91.92	92.54	-90.311	9,607.70	-677.99	1,094.05	959.28	134.77	8.118		
18,900.00	8,861.10	19,763.76	9,734.00	92.74	93.34	-90.311	9,707.70	-678.53	1,094.32	958.38	135.95	8.050		
19,000.00	8,860.75	19,863.76	9,734.00	93.55	94.15	-90.311	9,807.70	-679.08	1,094.60	957.47	137.13	7.982		
19,100.00	8,860.40	19,963.76	9,734.00	94.37	94.96	-90.311	9,907.69	-679.62	1,094.88	956.57	138.31	7.916		
19,175.37	8,860.14	20,037.15	9,734.00	94.99	95.55	-90.483	9,981.09	-680.02	1,095.09	955.91	139.17	7.869		

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 115H
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 115H	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)

Coordinates are relative to: Double Stamp Fed Com 115H

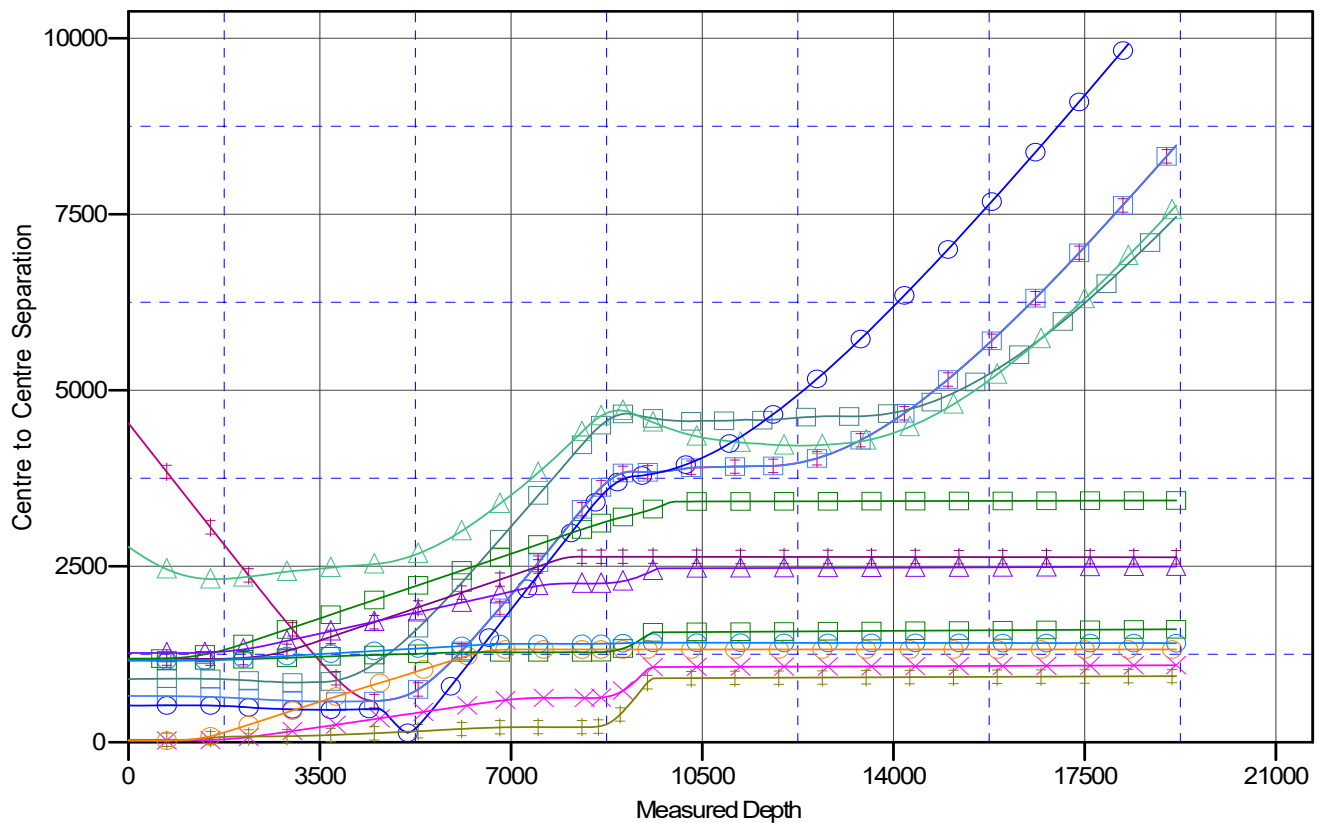
Offset Depths are relative to Offset Datum

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

Central Meridian is -104.333334

Grid Convergence at Surface is: 0.319°

Ladder Plot



LEGEND

Beiko AF Federal 2H, Wellbore #1, Survey #1 V0	Double Stamp Fed Com 125H, Wellbore #1, Design #1 V0	Double Stamp Fed Com 124H, Wellbore #1, Design #1 V0
Beiko AF Federal 2H, Wellbore #1, Mod Survey (from Surface) V0	Double Stamp Fed Com 121H, Wellbore #1, Design #1 V0	Double Stamp Fed Com 123H, Wellbore #1, Design #1 V0
Queenie 151H, Wellbore #1, Survey #1 V0	Double Stamp Fed Com 111H, Wellbore #1, Design #1 V0	Double Stamp Fed Com 113H, Wellbore #1, Design #1 V0
Beiko AF Federal 3H, Wellbore #1, Survey #1 V0	Double Stamp Fed Com 116H, Wellbore #1, Design #1 V0	
Beiko AF Federal 4H, Wellbore #1, Survey #1 V0	Double Stamp Fed Com 126H, 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 115H
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 115H	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

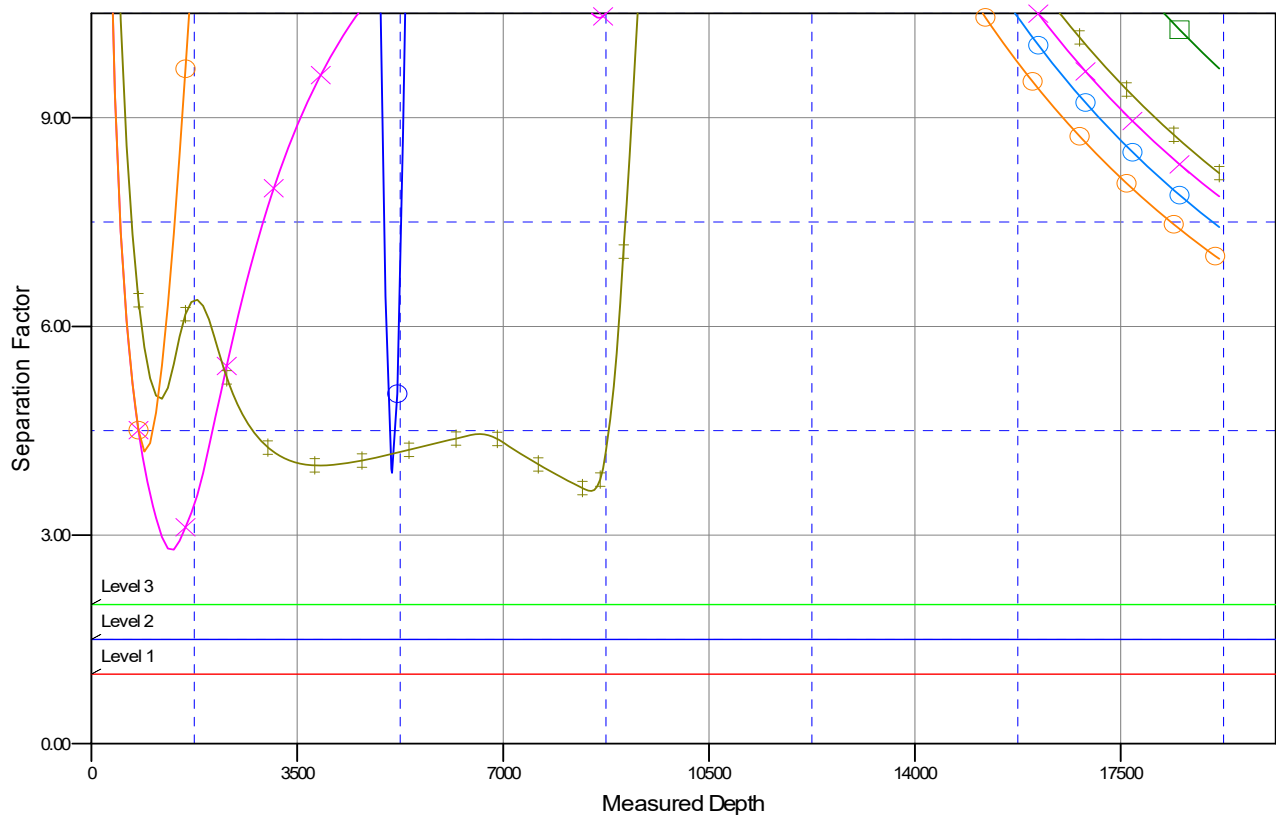
Central Meridian is -104.333334

Coordinates are relative to: Double Stamp Fed Com 115H

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

Grid Convergence at Surface is: 0.319°

Separation Factor Plot



LEGEND

Belto AF 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
Belto AF Federal 2H, Wellbore #1, Mod Survey (from Surface) V0	Double Stamp Fed Com 121H, 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 111H, Wellbore #1, Design #1 V0	Double Stamp Fed Com 113H, Wellbore #1, Design #1 V0
Belto AF Federal 3H, Wellbore #1, Survey V0	Double Stamp Fed Com 119H, Wellbore #1, Design #1 V0	
Belto AF 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

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 30-025-53999	Pool Code 53560	Pool Name SALT LAKE; BONE SPRING
Property Code 336572	Property Name DOUBLE STAMP FED COM	Well Number 115H
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.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
N	14	20-S	32-E	-	574' S	1615' W	N 32.5675078	W 103.7402286	LEA

Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
C	11	20-S	32-E	-	5' N	1649' W	N 32.5949573	W 103.7401128	LEA

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.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
N	14	20-S	32-E	-	50' S	1649' W	N 32.5660675	W 103.7401162	LEA

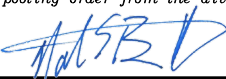
First Take Point (FTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
N	14	20-S	32-E	-	100' S	1649' W	N 32.5662050	W 103.7401162	LEA

Last Take Point (LTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
C	11	20-S	32-E	-	100' N	1649' W	N 32.5946962	W 103.7401128	LEA

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

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>  01/09/2025		SURVEYORS CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>  1/7/2025 11:38:56 AM	
Signature Nathan Bennett		Signature and Seal of Professional Surveyor	
Date 01/09/2025		Date 1/7/2025 11:38:56 AM	
Print Name nbennett@civiresources.com		Certificate Number	Date of Survey 08/11/2022
E-mail Address			

C-102

Submit Electronically
Via OCD PermittingState of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

Revised July 9, 2024

Submittal
Type:

- ☐ Initial Submittal
- ☒ Amended Report
- ☐ As Drilled

Property Name and Well Number

DOUBLE STAMP FED COM 115H

SURFACE LOCATION (SHL)

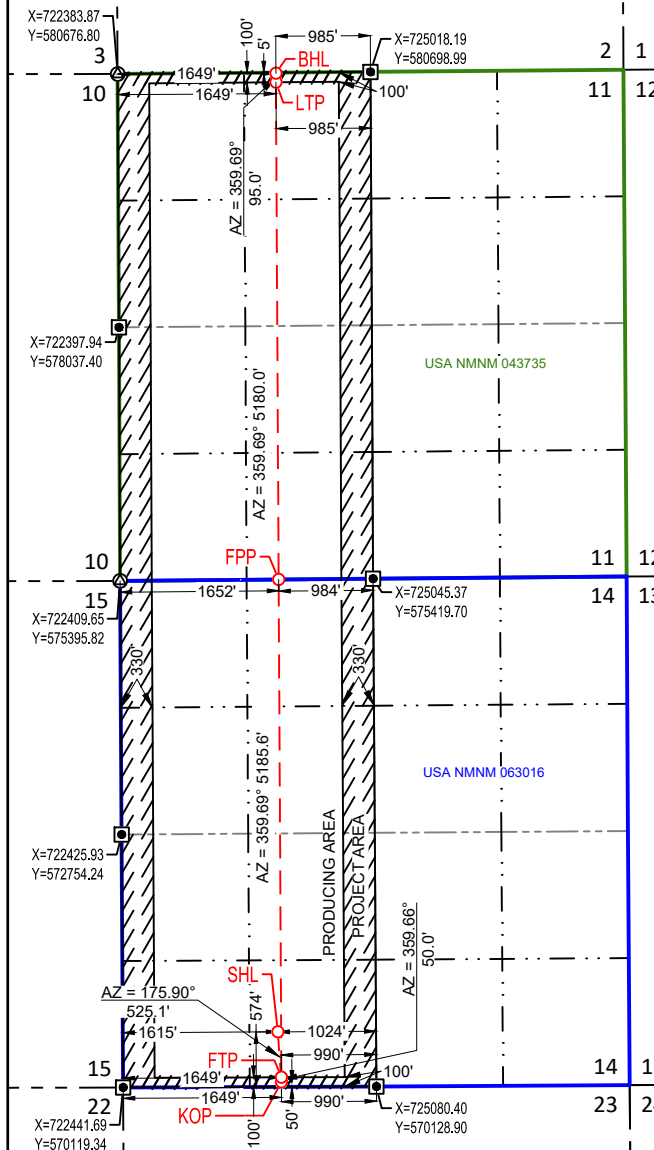
NEW MEXICO EAST
NAD 1983
X=724053 Y=570699
LAT.: N 32.5675078
LONG.: W 103.7402286
NAD 1927
X=682872 Y=570637
LAT.: N 32.5673862
LONG.: W 103.7397324
574' FSL 1615' FWL

KICK OFF POINT (KOP)

NEW MEXICO EAST
NAD 1983
X=724090 Y=570175
LAT.: N 32.5660675
LONG.: W 103.7401162
NAD 1927
X=682910 Y=570113
LAT.: N 32.5659459
LONG.: W 103.7396200
50' FSL 1649' FWL

FIRST TAKE POINT (FTP)

NEW MEXICO EAST
NAD 1983
X=724090 Y=570225
LAT.: N 32.5662050
LONG.: W 103.7401162
NAD 1927
X=682910 Y=570163
LAT.: N 32.5660834
LONG.: W 103.7396201
100' FSL 1649' FWL



FED PERF. POINT (FPP)

NEW MEXICO EAST
NAD 1983
X=724062 Y=575411
LAT.: N 32.5804582
LONG.: W 103.7401145
NAD 1927
X=682881 Y=575349
LAT.: N 32.5803367
LONG.: W 103.7396178
0' FSL 1652' FWL

LAST TAKE POINT (LTP)

NEW MEXICO EAST
NAD 1983
X=724033 Y=580591
LAT.: N 32.5946962
LONG.: W 103.7401128
NAD 1927
X=682853 Y=580528
LAT.: N 32.5945747
LONG.: W 103.7396156
100' FNL 1649' FWL

BOTTOM HOLE LOCATION (BHL)

NEW MEXICO EAST
NAD 1983
X=724033 Y=580686
LAT.: N 32.5949573
LONG.: W 103.7401128
NAD 1927
X=682853 Y=580623
LAT.: N 32.5948359
LONG.: W 103.7396155
5' FNL 1649' 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.
08/11/2022

Date of Survey
Signature and Seal of Professional Surveyor:



1/7/2025 11:38:58 AM

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 425410

CONDITIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 425410
	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