

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

3a. Address

3b. Phone No. (include area code)

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

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

8. Well Name and No.

9. API Well No.

10. Field and Pool or Exploratory Area

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				
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 recompleat 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 performed 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 recompleat 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

Multi-Bowl Wellhead Schematic

Location of Well

0. SHL: SESW / 579 FSL / 2077 FWL / TWSP: 26S / RANGE: 35E / SECTION: 20 / LAT: 32.0231165 / LONG: -103.3912423 (TVD: 0 feet, MD: 0 feet)
PPP: NENW / 0 FNL / 1595 FWL / TWSP: 26S / RANGE: 35E / SECTION: 29 / LAT: 32.021525 / LONG: -103.392795 (TVD: 12389 feet, MD: 12500 feet)
PPP: SENW / 1321 FNL / 1650 FWL / TWSP: 26S / RANGE: 35E / SECTION: 29 / LAT: 32.017893 / LONG: -103.392613 (TVD: 12486 feet, MD: 13900 feet)
PPP: SENW / 2642 FSL / 1650 FWL / TWSP: 26S / RANGE: 35E / SECTION: 29 / LAT: 32.014262 / LONG: -103.392607 (TVD: 12485 feet, MD: 15200 feet)
PPP: LOT 3 / 0 FNL / 1650 FWL / TWSP: 26S / RANGE: 35E / SECTION: 32 / LAT: 32.006998 / LONG: -103.392595 (TVD: 12484 feet, MD: 17800 feet)
BHL: LOT 3 / 10 FSL / 1650 FWL / TWSP: 26S / RANGE: 35E / SECTION: 32 / LAT: 32.0003202 / LONG: -103.3925846 (TVD: 12482 feet, MD: 20247 feet)

CONFIDENTIAL

District I

1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone: (505) 748-1283 Fax: (575) 748-9720

District III

1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

JABALINA; WOLFCAMP,
SOUTHWEST

1 API Number 30-025-48136	2 Pool Code 98234 96776	3 Pool Name WC-025-48136-PC, Wolfcamp
4 Property Code 333366	5 Property Name EL CAMPEON FED COM	6 Well Number 412H
7 OGRID No. 331165	8 Operator Name EARTHSTONE OPERATING LLC	9 Elevation 3174'

" Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	20	26-S	35-E		579'	SOUTH	2077'	WEST	LEA

" State Line Crossing If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County (TX)
1	32	26S	35E	L3	0'	SOUTH	1650'	WEST	LEA

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
240	Y		

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

***BHL & LTP WILL BE IN TEXAS**

<p>16 SURFACE HOLE LOCATION (SHL) NEW MEXICO EAST - NAD 83 X=833306.98 LAT.= 32.02311659° N Y=373421.52 LONG.= 103.39124233° W NEW MEXICO EAST - NAD 27 X=792118.65 LAT.= 32.02299008° N Y=373364.33 LONG.= 103.39078242° W 579' FSL, 2077' FWL - SECTION 20</p> <p>FIRST TAKE POINT (FTP) NEW MEXICO EAST - NAD 83 X=832887.25 LAT.= 32.02125226° N Y=372739.58 LONG.= 103.39261565° W NEW MEXICO EAST - NAD 27 X=791698.90 LAT.= 32.02112575° N Y=372682.42 LONG.= 103.39215580° W 100' FNL, 1651' FWL - SECTION 29 100' FNL, 330' FWL - LEASE</p> <p>STATE LINE CROSSING (SLC) NEW MEXICO EAST - NAD 83 X=832963.24 LAT.= 32.00029272° N Y=365114.79 LONG.= 103.39258461° W NEW MEXICO EAST - NAD 27 X=791774.55 LAT.= 32.00016610° N Y=365057.83 LONG.= -103.39212594° W 0' FSL, 1650' FWL - SECTION 32 0' FSL, 331' FWL - LEASE MD = 20,700'</p>		<p>17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and 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 such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Roger Lowery</i> Signature 11/28/2022 Date</p> <p>Roger Lowery Printed Name</p> <p>rlowery@earthstoneenergy.com E-mail Address</p> <p>SURVEYOR 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.</p> <p><i>Charles L. Juarez</i> Date of Survey 11/28/2022</p> <p><i>Charles L. Juarez</i> Signature and Seal of Professional Surveyor: 25490</p> <p>Certificate Number</p>
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Titus Oil & Gas Production, LLC - El Campeon Fed Com 412H

1. Geologic Formations

TVD of target	12,637' EOL	Pilot hole depth	NA
MD at TD:	23,124'	Deepest expected fresh water:	400'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1050	Water	
Top of Salt	1482	Salt	
Base of Salt	5052	Salt	
Lamar	5350	Salt Water	
Delaware	5372	Salt Water	
Bone Spring Lime	9238	Oil/Gas	
1st Bone Spring	10605	Oil/Gas	
2nd Bone Spring	11092	Oil/Gas	
3rd Bone Spring	12164	Oil/Gas	
Wolfcamp	12460	Oil/Gas	
Wolfcamp X Sand	12495	Oil/Gas	
Wolfcamp Y Sand	12556	Oil/Gas	
Wolfcamp A	12585	Target Oil/Gas	
Wolfcamp B	12914	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body
	From	To							
13.5"	0	1075	10.75"	45.5	J55	BTC	4.25	0.81	14.62
9.875"	0	12000	7.625"	29.7	HCL80	BTC	1.18	1.06	2.04
6.75"	0	11800	5.5"	20	P110	BTC	1.87	1.95	3.20
6.75"	11800	23,124	5"	18	P110	BTC	1.87	1.95	3.20
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse.
 Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and
 All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

The 5" casing will be run back 200' into the intermediate casing to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

Titus Oil & Gas Production, LLC - El Campeon Fed Com 412H

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary?	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

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3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	250	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Int	900	10.3	3.6	22.95	16	TXI Lightweight Blend
	250	13.5	1.5	7.8	8	Tail: Class H
Prod	1250	14.2	1.25	6.2	19	Tail: 50:50:2 Class H Blend

Contingency remediation cement plan for intermediate casing if cmt is not circulated to surface:1st Stage - Bradenhead Stage Notes

Operator will pump 1000+ sx of Class C and allow cement to fall into place. Operator will not put any fluid on top of the cement after the fall. This will leave annuls filled with air to TOC. We will WOC +/- 2 hrs (or when surface samples are firm enough) to ensure cement is set up. TOC will be above the Lamar allowing for the fill up stage.

2nd Stage - Fill Up Stage Notes

After WOC to allow the Bradenhead Stage to set up, operator will proceed with the Fill Up Stage. Since there is only air in the annulus (no fluid will be placed in annulus after bradenhead stage), we will pump cement with opposite valve set to allow air to displace out. Fill up cement will be mixed and pumped until returns are taken to surface to complete the fill up. This will confirm a solid column of cement in the annulus all the way to surface completing the top out job. Operator will WOC after cement returns have been taken to surface.

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
Production	11,800'	35% OH in Lateral (KOP to EOL)

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4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
9-7/8"	13-5/8"	3M	Annular	x	3000 psi
			Blind Ram		3M
			Pipe Ram		
			Double Ram		
			Other*		
6-3/4"	13-5/8"	10M	Annular	x	50% testing pressure
			Blind Ram	x	5M
			VBR Ram	x	
			VBR Ram	x	
			Other*		

See attached 5M Annular Variance Well Control plan for Titus Oil & Gas Production, LLC.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

Titus Oil & Gas Production, LLC - El Campeon Fed Com 412H

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	9-5/8" Int shoe	Nova N-Gauge	8.4 - 9	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	10.8 - 11.8	35-45	<20

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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6. Logging and Testing Procedures

Logging, Coring and Testing.	
Y	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
N	No Logs are planned based on well control or offset log information.
N	Drill stem test? If yes, explain.
N	Coring? If yes, explain.

Additional logs planned		Interval
N	Resistivity	Pilot Hole TD to ICP
N	Density	Pilot Hole TD to ICP
Y	CBL	Production casing (If cement not circulated to surface)
Y	Mud log	Intermediate shoe to TD
N	PEX	

Titus Oil & Gas Production, LLC - El Campeon Fed Com 412H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7755 psi at 12637' TVD
Abnormal Temperature	NO 180 Deg. F.

No abnormal pressure or temperature conditions are anticipated. Sufficient mud materials to maintain mud properties and weight increase requirements will be kept on location at all times.

Sufficient supplies of Paper/LCM for periodic sweeps to control seepage and losses will be maintained on location.

Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

Y	Is it a walking operation?
N	Is casing pre-set?

x	H ₂ S Plan.
x	BOP & Choke Schematics.
x	Directional Plan
x	Multibowl Schematic

Railroad Commission of Texas

PERMIT TO DRILL, RE-COMPLETE, OR RE-ENTER ON REGULAR OR ADMINISTRATIVE EXCEPTION LOCATION

CONDITIONS AND INSTRUCTIONS

Permit Invalidation. It is the operator's responsibility to make sure that the permitted location complies with Commission density and spacing rules in effect on the spud date. The permit becomes invalid automatically if, because of a field rule change or the drilling of another well, the stated location is not in compliance with Commission field rules on the spud date. If this occurs, application for an exception to Statewide Rules 37 and 38 must be made and a special permit granted prior to spudding. Failure to do so may result in an allowable not being assigned and/or enforcement procedures being initiated.

Notice Requirements. Per H.B 630, signed May 8, 2007, the operator is required to provide notice to the surface owner no later than the 15th business day after the Commission issues a permit to drill. Please refer to subchapter Q Sec. 91.751-91.755 of the Texas Natural Resources Code for applicability.

Permit expiration. This permit expires two (2) years from the date of issuance shown on the original permit. The permit period will not be extended.

Drilling Permit Number. The drilling permit number shown on the permit **MUST** be given as a reference with any notification to the district (see below), correspondence, or application concerning this permit.

Rule 37 Exception Permits. This Statewide Rule 37 exception permit is granted under either provision Rule 37 (h)(2)(A) or 37(h)(2)(B). Be advised that a permit granted under Rule 37(h)(2)(A), notice of application, is subject to the General Rules of Practice and Procedures and if a protest is received under Section 1.3, "Filing of Documents," and/or Section 1.4, "Computation of Time," the permit may be deemed invalid.

Before Drilling

Fresh Water Sand Protection. The operator must set and cement sufficient surface casing to protect all usable-quality water, as defined by the Railroad Commission of Texas (RRC) Groundwater Advisory Unit (GWAU). Before drilling a well, the operator must obtain a letter from the Railroad Commission of Texas stating the depth to which water needs protection, Write: Railroad Commission of Texas, Groundwater Advisory Unit (GWAU), P.O. Box 12967, Austin, TX 78711-3087. File a copy of the letter with the appropriate district office.

Accessing the Well Site. If an OPERATOR, well equipment TRANSPORTER or WELL service provider must access the well site from a roadway on the state highway system (Interstate, U.S. Highway, State Highway, Farm-to-Market Road, Ranch-to-Market Road, etc.), an access permit is required from TxDOT. Permit applications are submitted to the respective TxDOT Area Office serving the county where the well is located.

Water Transport to Well Site. If an operator intends to transport water to the well site through a temporary pipeline laid above ground on the state's right-of-way, an additional TxDOT permit is required. Permit applications are submitted to the respective TxDOT Area Office serving the county where the well is located.

*NOTIFICATION

The operator is **REQUIRED** to notify the district office when setting surface casing, intermediate casing, and production casing, or when plugging a dry hole. The district office **MUST** also be notified if the operator intends to re-enter a plugged well or re-complete a well into a different regulatory field. Time requirements are given below. The drilling permit number **MUST** be given with such notifications.

During Drilling

Permit at Drilling Site. A copy of the Form W-1 Drilling Permit Application, the location plat, a copy of Statewide Rule 13 alternate surface casing setting depth approval from the district office, if applicable, and this drilling permit must be kept at the permitted well site throughout drilling operations.

***Notification of Setting Casing.** The operator **MUST** call in notification to the appropriate district office (phone number shown on permit) a minimum of eight (8) hours prior to the setting of surface casing, intermediate casing, AND production casing. The individual giving notification **MUST** be able to advise the district office of the drilling permit number.

***Notification of Re-completion/Re-entry.** The operator MUST call in notification to the appropriate district office (phone number shown on permit) a minimum of eight (8) hours prior to the initiation of drilling or re-completion operations. The individual giving notification MUST be able to advise the district office of the drilling permit number.

Completion and Plugging Reports

Hydraulic Fracture Stimulation using Diesel Fuel: Most operators in Texas do not use diesel fuel in hydraulic fracturing fluids. Section 322 of the Energy Policy Act of 2005 amended the Underground Injection Control (UIC) portion of the federal Safe Drinking Water Act (42 USC 300h(d)) to define "underground injection" to *EXCLUDE* " ...the underground injection of fluids or propping agents (*other than diesel fuels*) pursuant to hydraulic fracturing operations related to oil, gas, or geothermal production activities." (italic and underlining added.) Therefore, hydraulic fracturing may be subject to regulation under the federal UIC regulations if diesel fuel is injected or used as a propping agent. EPA defined "diesel fuel" using the following five (5) Chemical Abstract Service numbers: 68334-30-5 Primary Name: Fuels, diesel; 68476-34-6 Primary Name: Fuels, diesel, No. 2; 68476-30-2 Primary Name: Fuel oil No. 2; 68476-31-3 Primary Name: Fuel oil, No. 4; and 8008-20-6 Primary Name: Kerosene. As a result, an injection well permit would be required before performing hydraulic fracture stimulation using diesel fuel as defined by EPA on any well in Texas. Hydraulic fracture stimulation using diesel fuel as defined by EPA on a well in Texas without an injection well permit could result in enforcement action.

Producing Well. Statewide Rule 16 states that the operator of a well shall file with the Commission the appropriate completion report within ninety (90) days after completion of the well or within one hundred and fifty (150) days after the date on which the drilling operation is completed, whichever is earlier. Completion of the well in a field authorized by this permit voids the permit for all other fields included in the permit unless the operator indicates on the initial completion report that the well is to be a dual or multiple completion and promptly submits an application for multiple completion. All zones are required to be completed before the expiration date on the existing permit. Statewide Rule 40(d) requires that upon successful completion of a well in the same reservoir as any other well previously assigned the same acreage, proration plats and P-15s or P-16s (if required) or a lease plat and P-16 must be submitted with no double assignment of acreage unless authorized by rule.

Dry or Noncommercial Hole. Statewide Rule 14(b)(2) prohibits suspension of operations on each dry or non-commercial well without plugging unless the hole is cased and the casing is cemented in compliance with Commission rules. If properly cased, Statewide Rule 14(b)(2) requires that plugging operations must begin within a period of one (1) year after drilling or operations have ceased. Plugging operations must proceed with due diligence until completed. An extension to the one-year plugging requirement may be granted under the provisions stated in Statewide Rule 14(b)(2).

Intention to Plug. The operator must file a Form W-3A (Notice of Intention to Plug and Abandon) with the district office at least five (5) days prior to beginning plugging operations. If, however, a drilling rig is already at work on location and ready to begin plugging operations, the district director or the director's delegate may waive this requirement upon request, and verbally approve the proposed plugging procedures.

***Notification of Plugging a Dry Hole.** The operator MUST call in notification to the appropriate district office (phone number shown on permit) a minimum of four (4) hours prior to beginning plugging operations. The individual giving the notification MUST be able to advise the district office of the drilling permit number and all water protection depths for that location as stated in the Groundwater Advisory Unit letter.

DIRECT INQUIRIES TO: DRILLING PERMIT SECTION, OIL AND GAS DIVISION

PHONE
(512) 463-6751

MAIL:
PO Box 12967
Austin, Texas, 78711-2967

RAILROAD COMMISSION OF TEXAS

OIL & GAS DIVISION

PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER ON A REGULAR OR ADMINISTRATIVE EXCEPTION LOCATION

PERMIT NUMBER 883125	DATE PERMIT ISSUED OR AMENDED (AMENDED) Jan 10, 2023	DISTRICT * 08		
API NUMBER 42-301-36060	FORM W-1 RECEIVED Jan 09, 2023	COUNTY LOVING		
TYPE OF OPERATION NEW DRILL	WELLBORE PROFILE(S) Horizontal	ACRES 74.82		
OPERATOR EARTHSTONE OPERATING, LLC 1400 WOODLOCH FOREST DR STE 300 THE WOODLANDS, TX 77380-1197		NOTICE This permit and any allowable assigned may be revoked if payment for fee(s) submitted to the Commission is not honored. District Office Telephone No: (432) 684-5581		
LEASE NAME EL CAMPEON UNIT 2		WELL NUMBER 412H		
LOCATION 20 miles NW direction from KERMIT		TOTAL DEPTH 12632		
Section, Block and/or Survey SECTION 20 BLOCK 20 ABSTRACT 20 SURVEY NEW MEXICO PRINCIPAL MERIDIAN SEC 20, T26S, R35E				
DISTANCE TO SURVEY LINES 579 ft. SOUTH 2077 ft. WEST		DISTANCE TO NEAREST LEASE LINE ft.		
DISTANCE TO LEASE LINES 579 ft. SOUTH 2077 ft. WEST		DISTANCE TO NEAREST WELL ON LEASE See FIELD(s) Below		
FIELD(s) and LIMITATIONS: * SEE FIELD DISTRICT FOR REPORTING PURPOSES *				
FIELD NAME LEASE NAME	ACRES NEAREST LEASE	DEPTH NEAREST LEASE	WELL # NEAREST WE	DIST
PHANTOM (WOLFCAMP) EL CAMPEON UNIT 2	74.82	12,632	412H 200	08
WELLBORE PROFILE(s) FOR FIELD: Horizontal				
<p>RESTRICTIONS: This is a hydrogen sulfide field. Hydrogen Sulfide Fields with perforations must be isolated and tested per State Wide Rule 36 and a Form H-9 filed with the district office. Fields with SWR 10 authority to downhole commingle must be isolated and tested individually prior to commingling production.</p> <p>Lateral: TH1 Penetration Point Location Lease Lines: 1.0 F NORTH L 331.0 F WEST L</p> <p>Terminus Location BH County: LOVING Section: 25 Block: C24 Abstract: 701 Survey: PSL/ RUSSELL, W B Lease Lines: 10.0 F SOUTH L 331.0 F WEST L Survey Lines: 10.0 F SOUTH L 5228.0 F WEST L</p>				
THE FOLLOWING RESTRICTIONS APPLY TO ALL FIELDS				

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TYPE OF OPERATION NEW DRILL	WELLBORE PROFILE(S) Horizontal	ACRES 74.82
OPERATOR EARTHSTONE OPERATING, LLC 1400 WOODLOCH FOREST DR STE 300 THE WOODLANDS, TX 77380-1197		NOTICE This permit and any allowable assigned may be revoked if payment for fee(s) submitted to the Commission is not honored. District Office Telephone No: (432) 684-5581
LEASE NAME EL CAMPEON UNIT 2		WELL NUMBER 412H
LOCATION 20 miles NW direction from KERMIT		TOTAL DEPTH 12632
Section, Block and/or Survey SECTION 20 BLOCK ABSTRACT SURVEY NEW MEXICO PRINCIPAL MERIDIAN SEC 20, T26S, R35E		
DISTANCE TO SURVEY LINES 579 ft. SOUTH 2077 ft. WEST		DISTANCE TO NEAREST LEASE LINE ft.
DISTANCE TO LEASE LINES 579 ft. SOUTH 2077 ft. WEST		DISTANCE TO NEAREST WELL ON LEASE See FIELD(s) Below
FIELD(s) and LIMITATIONS: * SEE FIELD DISTRICT FOR REPORTING PURPOSES *		
FIELD NAME LEASE NAME	ACRES NEAREST LEASE	DEPTH WELL # DIST NEAREST WE
<p>This well shall be completed and produced in compliance with applicable special field or statewide spacing and density rules. If this well is to be used for brine mining, underground storage of liquid hydrocarbons in salt formations, or underground storage of gas in salt formations, a permit for that specific purpose must be obtained from Environmental Services prior to construction, including drilling, of the well in accordance with Statewide Rules 81, 95, and 97.</p> <p>This well must comply to the new SWR 3.13 requirements concerning the isolation of any potential flow zones and zones with corrosive formation fluids. See approved permit for those formations that have been identified for the county in which you are drilling the well in.</p>		

**RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION
SWR #13 Formation Data**

LOVING (301) County

Formation	Remarks	Geological Order	Effective Date
RED BLUFF		1	02/09/2020
DELAWARE		2	02/09/2020
BELL CANYON		3	02/09/2020
CHERRY CANYON		4	02/09/2020
BRUSHY CANYON		5	02/09/2020
BONE SPRING		6	02/09/2020
WOLFCAMP		7	02/09/2020
PENNSYLVANIAN		8	02/09/2020
STRAWN		9	02/09/2020
ATOKA	high pressure	10	02/09/2020
MORROW		11	02/09/2020
DEVONIAN		12	02/09/2020
FUSSELMAN		13	02/09/2020
ELLENBURGER		14	02/09/2020
PRECAMBRIAN (UNDIFFERENTIATED)		15	02/09/2020

The above list may not be all inclusive, and may also include formations that do not intersect all wellbores. The listing order of the Formation information reflects the general stratigraphic order and relative geologic age. This is a dynamic list subject to updates and revisions. It is the operator's responsibility to make sure that at the time of spudding the well the most current list is being referenced. Refer to the RRC website at the following address for the most recent information.
<http://www.rrc.texas.gov/oil-gas/compliance-enforcement/rule-13-geologic-formation-info>

RKB @ 3200.50usft (TBD)

Ground Level: 3174.00

WELL DETAILS

+N/-S	+E/-W	Northing	Ground Level: Easting	3174.00	Latitude	Longitude
0.00	0.00	373421.52	833306.98	32° 1' 23.219757 N	103° 23' 28.472357 W	

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
BHL - El Campeon 412H	12637.00	-10872.63	-317.97	362548.89	832989.01	31° 59' 35.661809 N	103° 23' 33.264605 W
FTP - El Campeon 412H	12637.00	-681.94	-419.70	372739.58	832887.28	32° 1' 16.508118 N	103° 23' 33.416005 W
LTP - El Campeon 412H	12637.00	-10778.15	-318.91	362643.37	832988.07	31° 59' 36.596778 N	103° 23' 33.265976 W
SLC - El Campeon 412H	12637.00	-8306.73	-343.74	365114.79	832963.24	32° 0' 1.053819 N	103° 23' 33.304599 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00		KOP, Begin 2.00°/100' Build
2	1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.000	0.00		Hold 2.60° Inc at 250.54° Azm
3	1629.90	2.60	250.54	1629.86	-0.98	-2.78	2.00	250.536	0.95		Begin 2.00°/100' Drop
4	11444.32	2.60	250.54	11434.18	-149.23	-422.23	0.00	0.000	145.02		Begin Vertical Hold
5	11574.22	0.00	0.00	11564.04	-150.21	-425.01	2.00	180.000	145.97		KOP2, Begin 10.00°/100' Build
6	12074.22	0.00	0.00	12064.04	-150.21	-425.01	0.00	0.000	145.97		LP, Hold 90.00° Inc at 179.43° Azm
7	12974.22	90.00	179.43	12637.00	-723.14	-419.29	10.00	179.428	718.93		TD at 23124.22
8	23124.22	90.00	179.43	12637.00	-10872.63	-317.97	0.00	0.000	10868.93	BHL - El Campeon 412H	

Map System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone Name: New Mexico Eastern Zone

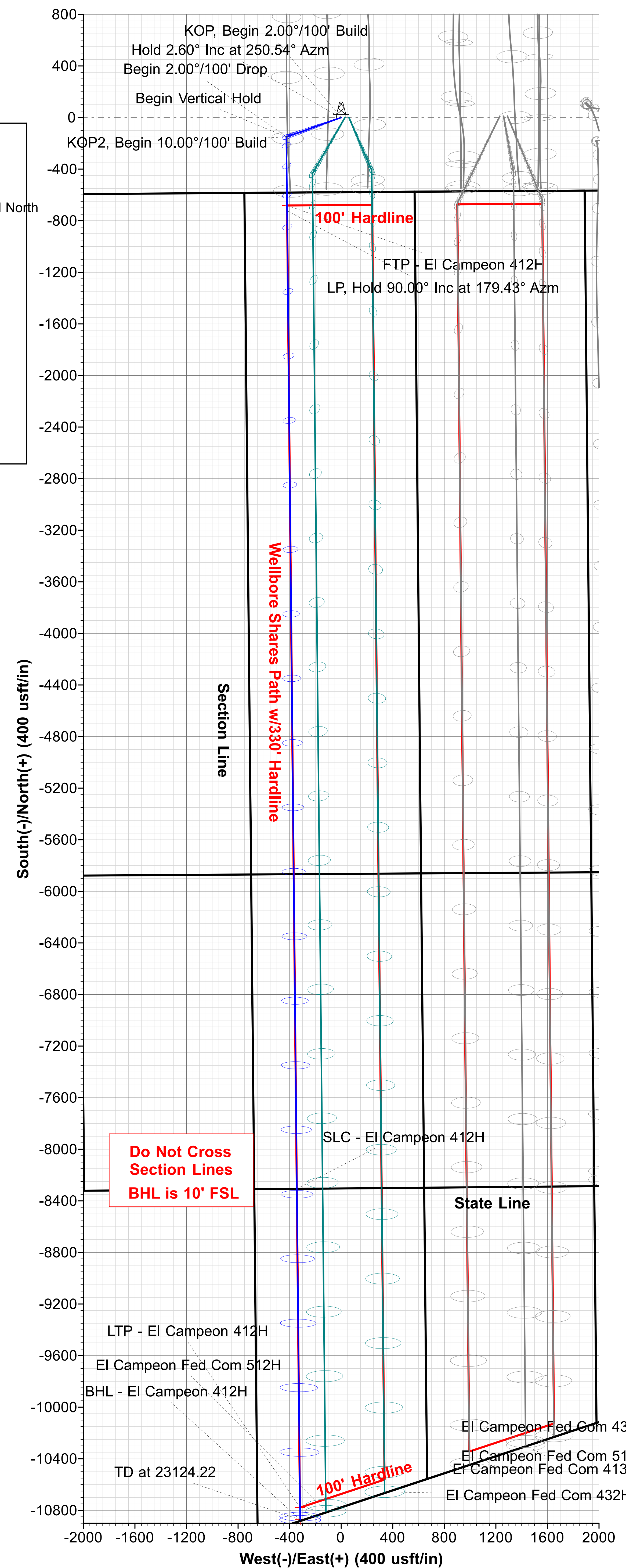
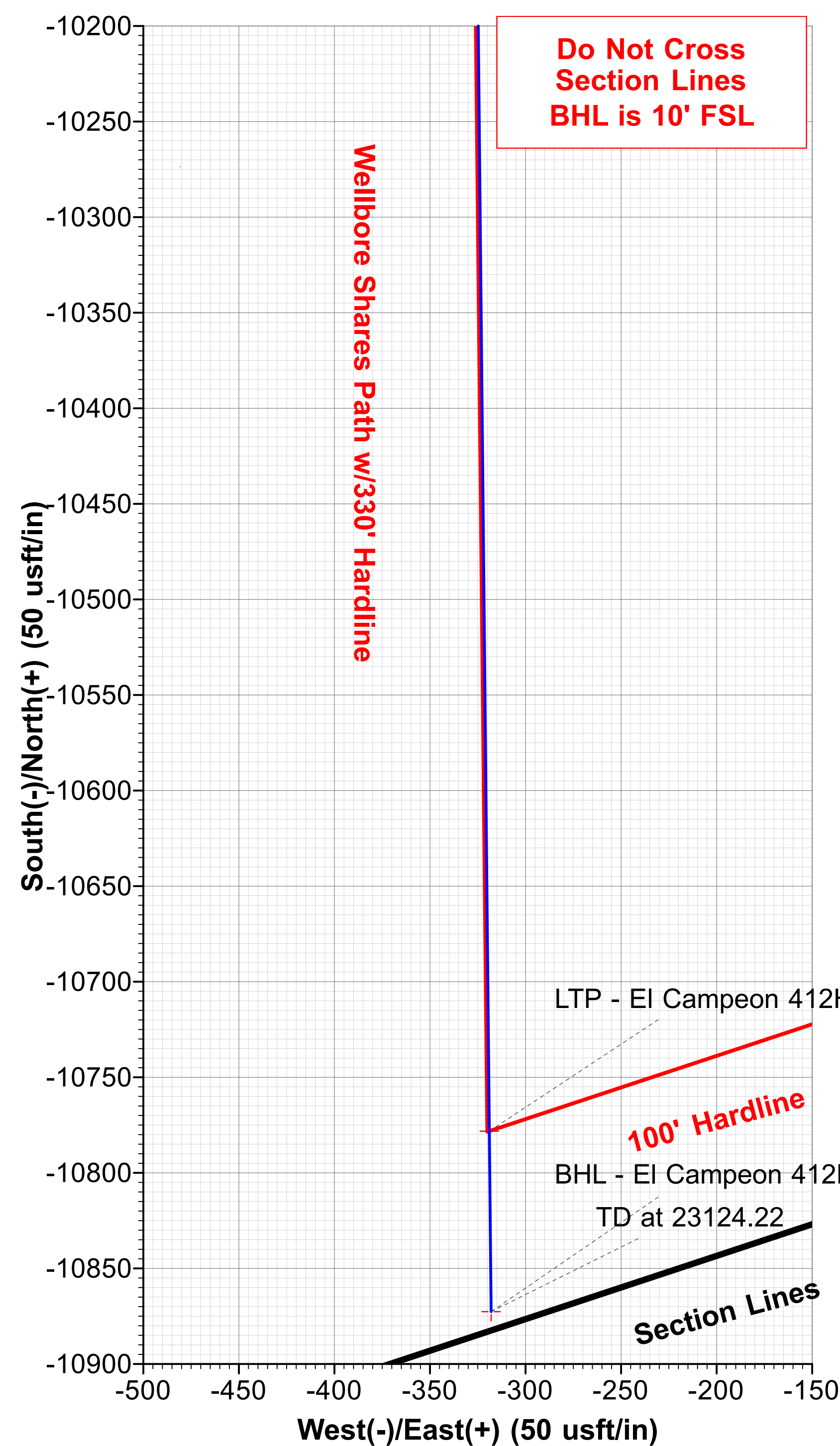
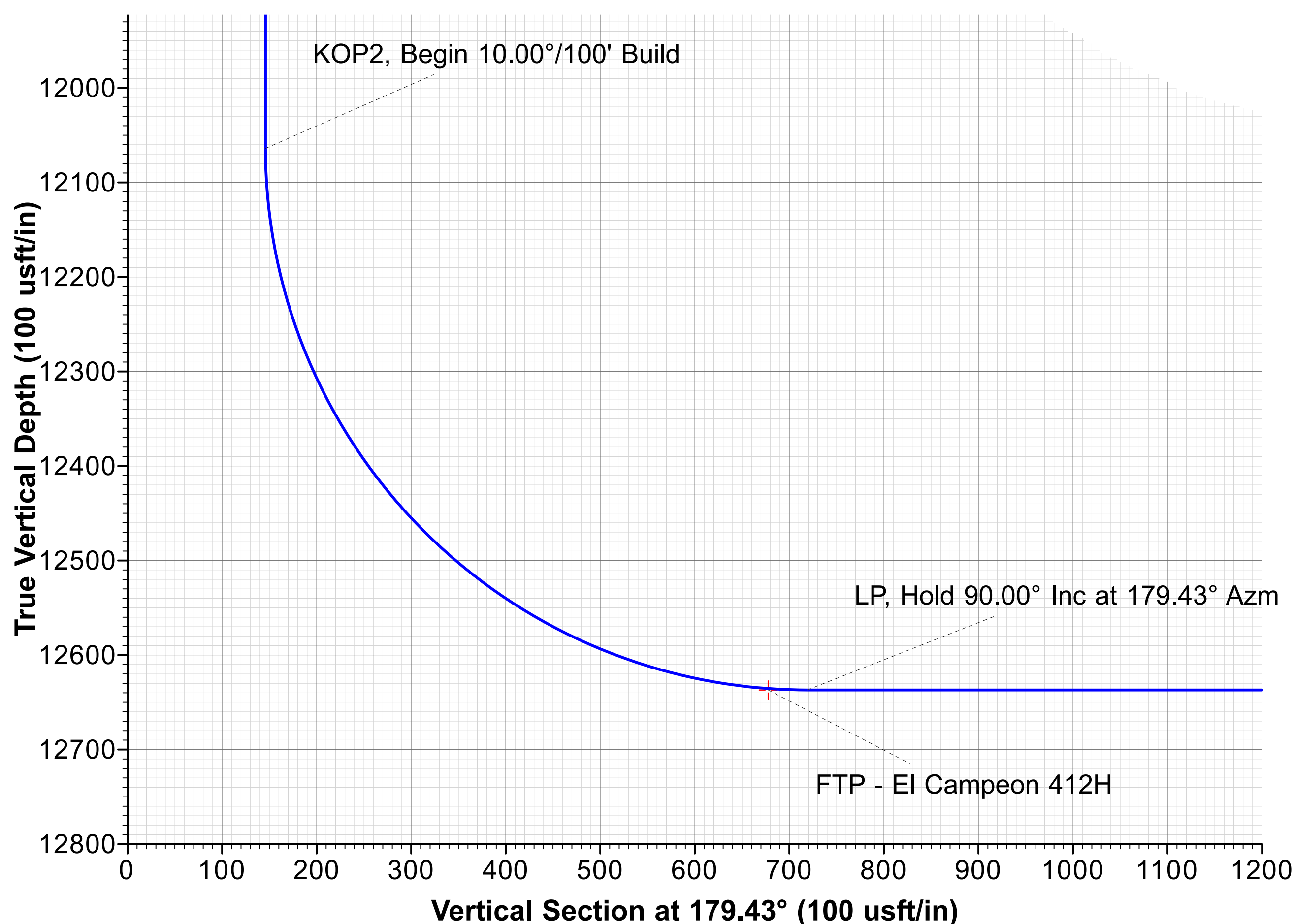
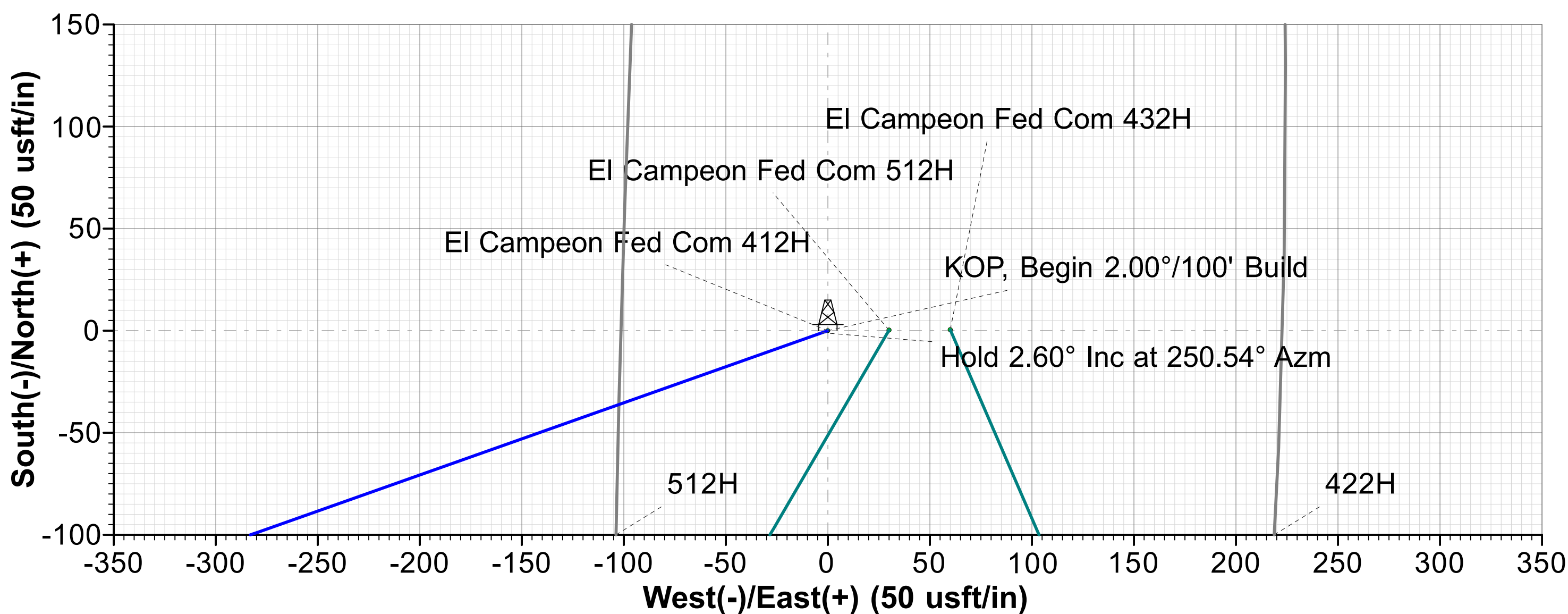
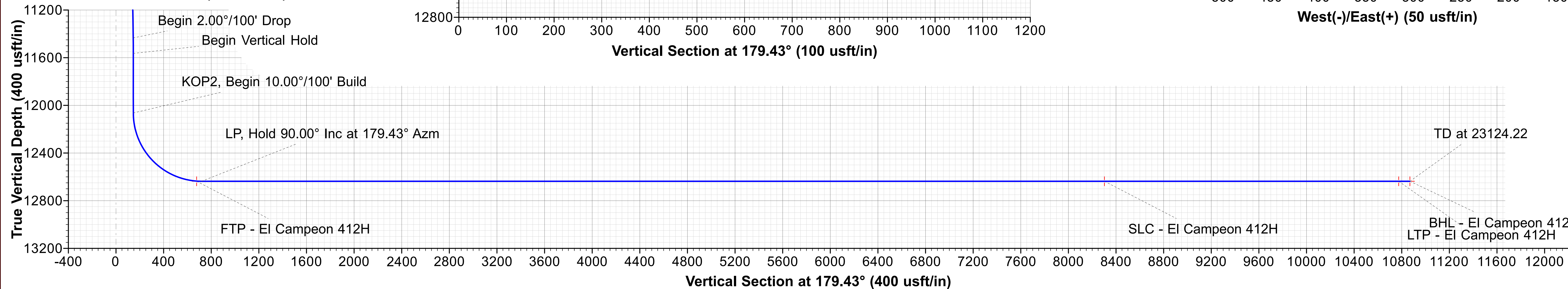
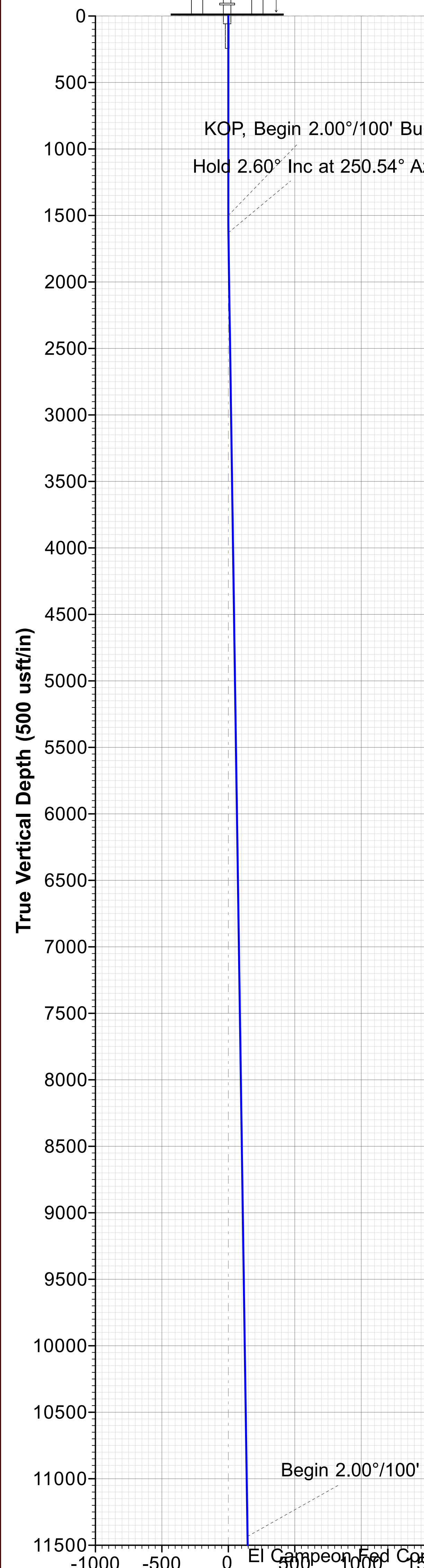
Local Origin: Well El Campeon Fed Com 412H, Grid North

Latitude: 32° 1' 23.219757 N
Longitude: 103° 23' 28.472357 W

Grid East: 833306.98
Grid North: 373421.52
Scale Factor: 1.000

Geomagnetic Model: MVHD
Sample Date: 30-Sep-22
Magnetic Declination: 6.244°
Dip Angle from Horizontal: 59.579°
Magnetic Field Strength: 47316.67969306nT

To convert a Magnetic Direction to a Grid Direction, Add 5.744°
To convert a Magnetic Direction to a True Direction, Add 6.244° East
To convert a True Direction to a Grid Direction, Subtract 0.500°





Titus Oil & Gas Production, LLC

Lea County, NM - (NAD83 NME)

El Campeon Fed Com (NAD83)

El Campeon Fed Com 412H

OH

Plan: Plan 1 08-31-22

Standard Planning Report

31 August, 2022





Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3200.50usft (TBD)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3200.50usft (TBD)
Site:	El Campeon Fed Com (NAD83)	North Reference:	Grid
Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 08-31-22		

Project	Lea County, NM - (NAD83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		El Campeon Fed Com (NAD83)			
Site Position:		Northing:	373,195.63 usft	Latitude:	32° 1' 20.984376 N
From:	Map	Easting:	833,309.19 usft	Longitude:	103° 23' 28.469580 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.500

Well	El Campeon Fed Com 412H					
Well Position	+N/-S	225.89 usft	Northing:	373,421.52 usft	Latitude:	32° 1' 23.219757 N
	+E/-W	-2.21 usft	Easting:	833,306.98 usft	Longitude:	103° 23' 28.472357 W
Position Uncertainty		1.00 usft	Wellhead Elevation:		Ground Level:	3,174.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	9/30/2022	6.244	59.579	47,316.67969305

Design	Plan 1 08-31-22			
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	179.43

Plan Survey Tool Program	Date	8/31/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	23,124.22 Plan 1 08-31-22 (OH)	MWD+HRGM	
			OWSG MWD + HRGM	

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	
1,629.90	2.60	250.54	1,629.86	-0.98	-2.78	2.00	2.00	0.00	250.536	
11,444.32	2.60	250.54	11,434.18	-149.23	-422.23	0.00	0.00	0.00	0.000	
11,574.22	0.00	0.00	11,564.04	-150.21	-425.01	2.00	-2.00	0.00	180.000	
12,074.22	0.00	0.00	12,064.04	-150.21	-425.01	0.00	0.00	0.00	0.000	
12,974.22	90.00	179.43	12,637.00	-723.14	-419.29	10.00	10.00	0.00	179.428	
23,124.22	90.00	179.43	12,637.00	-10,872.63	-317.97	0.00	0.00	0.00	0.000	BHL - El Campeon 41



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3200.50usft (TBD)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3200.50usft (TBD)
Site:	El Campeon Fed Com (NAD83)	North Reference:	Grid
Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 08-31-22		

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
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Begin 2.00°/100' Build									
1,600.00	2.00	250.54	1,599.98	-0.58	-1.65	0.57	2.00	2.00	0.00
1,629.90	2.60	250.54	1,629.86	-0.98	-2.78	0.95	2.00	2.00	0.00
Hold 2.60° Inc at 250.54° Azm									
1,700.00	2.60	250.54	1,699.88	-2.04	-5.77	1.98	0.00	0.00	0.00
1,800.00	2.60	250.54	1,799.78	-3.55	-10.05	3.45	0.00	0.00	0.00
1,900.00	2.60	250.54	1,899.68	-5.06	-14.32	4.92	0.00	0.00	0.00
2,000.00	2.60	250.54	1,999.58	-6.57	-18.59	6.39	0.00	0.00	0.00
2,100.00	2.60	250.54	2,099.47	-8.08	-22.87	7.85	0.00	0.00	0.00
2,200.00	2.60	250.54	2,199.37	-9.59	-27.14	9.32	0.00	0.00	0.00
2,300.00	2.60	250.54	2,299.27	-11.10	-31.42	10.79	0.00	0.00	0.00
2,400.00	2.60	250.54	2,399.16	-12.61	-35.69	12.26	0.00	0.00	0.00
2,500.00	2.60	250.54	2,499.06	-14.12	-39.96	13.73	0.00	0.00	0.00
2,600.00	2.60	250.54	2,598.96	-15.63	-44.24	15.19	0.00	0.00	0.00
2,700.00	2.60	250.54	2,698.86	-17.14	-48.51	16.66	0.00	0.00	0.00
2,800.00	2.60	250.54	2,798.75	-18.66	-52.78	18.13	0.00	0.00	0.00
2,900.00	2.60	250.54	2,898.65	-20.17	-57.06	19.60	0.00	0.00	0.00
3,000.00	2.60	250.54	2,998.55	-21.68	-61.33	21.06	0.00	0.00	0.00
3,100.00	2.60	250.54	3,098.44	-23.19	-65.61	22.53	0.00	0.00	0.00
3,200.00	2.60	250.54	3,198.34	-24.70	-69.88	24.00	0.00	0.00	0.00
3,300.00	2.60	250.54	3,298.24	-26.21	-74.15	25.47	0.00	0.00	0.00
3,400.00	2.60	250.54	3,398.14	-27.72	-78.43	26.94	0.00	0.00	0.00
3,500.00	2.60	250.54	3,498.03	-29.23	-82.70	28.40	0.00	0.00	0.00
3,600.00	2.60	250.54	3,597.93	-30.74	-86.98	29.87	0.00	0.00	0.00
3,700.00	2.60	250.54	3,697.83	-32.25	-91.25	31.34	0.00	0.00	0.00
3,800.00	2.60	250.54	3,797.72	-33.76	-95.52	32.81	0.00	0.00	0.00
3,900.00	2.60	250.54	3,897.62	-35.27	-99.80	34.28	0.00	0.00	0.00
4,000.00	2.60	250.54	3,997.52	-36.78	-104.07	35.74	0.00	0.00	0.00
4,100.00	2.60	250.54	4,097.42	-38.29	-108.35	37.21	0.00	0.00	0.00
4,200.00	2.60	250.54	4,197.31	-39.80	-112.62	38.68	0.00	0.00	0.00
4,300.00	2.60	250.54	4,297.21	-41.31	-116.89	40.15	0.00	0.00	0.00
4,400.00	2.60	250.54	4,397.11	-42.82	-121.17	41.62	0.00	0.00	0.00
4,500.00	2.60	250.54	4,497.01	-44.33	-125.44	43.08	0.00	0.00	0.00
4,600.00	2.60	250.54	4,596.90	-45.84	-129.71	44.55	0.00	0.00	0.00
4,700.00	2.60	250.54	4,696.80	-47.35	-133.99	46.02	0.00	0.00	0.00
4,800.00	2.60	250.54	4,796.70	-48.86	-138.26	47.49	0.00	0.00	0.00
4,900.00	2.60	250.54	4,896.59	-50.38	-142.54	48.95	0.00	0.00	0.00
5,000.00	2.60	250.54	4,996.49	-51.89	-146.81	50.42	0.00	0.00	0.00
5,100.00	2.60	250.54	5,096.39	-53.40	-151.08	51.89	0.00	0.00	0.00
5,200.00	2.60	250.54	5,196.29	-54.91	-155.36	53.36	0.00	0.00	0.00
5,300.00	2.60	250.54	5,296.18	-56.42	-159.63	54.83	0.00	0.00	0.00
5,400.00	2.60	250.54	5,396.08	-57.93	-163.91	56.29	0.00	0.00	0.00
5,500.00	2.60	250.54	5,495.98	-59.44	-168.18	57.76	0.00	0.00	0.00
5,600.00	2.60	250.54	5,595.87	-60.95	-172.45	59.23	0.00	0.00	0.00
5,700.00	2.60	250.54	5,695.77	-62.46	-176.73	60.70	0.00	0.00	0.00
5,800.00	2.60	250.54	5,795.67	-63.97	-181.00	62.17	0.00	0.00	0.00
5,900.00	2.60	250.54	5,895.57	-65.48	-185.27	63.63	0.00	0.00	0.00
6,000.00	2.60	250.54	5,995.46	-66.99	-189.55	65.10	0.00	0.00	0.00
6,100.00	2.60	250.54	6,095.36	-68.50	-193.82	66.57	0.00	0.00	0.00
6,200.00	2.60	250.54	6,195.26	-70.01	-198.10	68.04	0.00	0.00	0.00
6,300.00	2.60	250.54	6,295.16	-71.52	-202.37	69.50	0.00	0.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3200.50usft (TBD)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3200.50usft (TBD)
Site:	El Campeon Fed Com (NAD83)	North Reference:	Grid
Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 08-31-22		

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)
6,400.00	2.60	250.54	6,395.05	-73.03	-206.64	70.97	0.00	0.00	0.00
6,500.00	2.60	250.54	6,494.95	-74.54	-210.92	72.44	0.00	0.00	0.00
6,600.00	2.60	250.54	6,594.85	-76.05	-215.19	73.91	0.00	0.00	0.00
6,700.00	2.60	250.54	6,694.74	-77.56	-219.47	75.38	0.00	0.00	0.00
6,800.00	2.60	250.54	6,794.64	-79.07	-223.74	76.84	0.00	0.00	0.00
6,900.00	2.60	250.54	6,894.54	-80.58	-228.01	78.31	0.00	0.00	0.00
7,000.00	2.60	250.54	6,994.44	-82.10	-232.29	79.78	0.00	0.00	0.00
7,100.00	2.60	250.54	7,094.33	-83.61	-236.56	81.25	0.00	0.00	0.00
7,200.00	2.60	250.54	7,194.23	-85.12	-240.84	82.72	0.00	0.00	0.00
7,300.00	2.60	250.54	7,294.13	-86.63	-245.11	84.18	0.00	0.00	0.00
7,400.00	2.60	250.54	7,394.02	-88.14	-249.38	85.65	0.00	0.00	0.00
7,500.00	2.60	250.54	7,493.92	-89.65	-253.66	87.12	0.00	0.00	0.00
7,600.00	2.60	250.54	7,593.82	-91.16	-257.93	88.59	0.00	0.00	0.00
7,700.00	2.60	250.54	7,693.72	-92.67	-262.20	90.06	0.00	0.00	0.00
7,800.00	2.60	250.54	7,793.61	-94.18	-266.48	91.52	0.00	0.00	0.00
7,900.00	2.60	250.54	7,893.51	-95.69	-270.75	92.99	0.00	0.00	0.00
8,000.00	2.60	250.54	7,993.41	-97.20	-275.03	94.46	0.00	0.00	0.00
8,100.00	2.60	250.54	8,093.31	-98.71	-279.30	95.93	0.00	0.00	0.00
8,200.00	2.60	250.54	8,193.20	-100.22	-283.57	97.39	0.00	0.00	0.00
8,300.00	2.60	250.54	8,293.10	-101.73	-287.85	98.86	0.00	0.00	0.00
8,400.00	2.60	250.54	8,393.00	-103.24	-292.12	100.33	0.00	0.00	0.00
8,500.00	2.60	250.54	8,492.89	-104.75	-296.40	101.80	0.00	0.00	0.00
8,600.00	2.60	250.54	8,592.79	-106.26	-300.67	103.27	0.00	0.00	0.00
8,700.00	2.60	250.54	8,692.69	-107.77	-304.94	104.73	0.00	0.00	0.00
8,800.00	2.60	250.54	8,792.59	-109.28	-309.22	106.20	0.00	0.00	0.00
8,900.00	2.60	250.54	8,892.48	-110.79	-313.49	107.67	0.00	0.00	0.00
9,000.00	2.60	250.54	8,992.38	-112.30	-317.76	109.14	0.00	0.00	0.00
9,100.00	2.60	250.54	9,092.28	-113.81	-322.04	110.61	0.00	0.00	0.00
9,200.00	2.60	250.54	9,192.17	-115.33	-326.31	112.07	0.00	0.00	0.00
9,300.00	2.60	250.54	9,292.07	-116.84	-330.59	113.54	0.00	0.00	0.00
9,400.00	2.60	250.54	9,391.97	-118.35	-334.86	115.01	0.00	0.00	0.00
9,500.00	2.60	250.54	9,491.87	-119.86	-339.13	116.48	0.00	0.00	0.00
9,600.00	2.60	250.54	9,591.76	-121.37	-343.41	117.95	0.00	0.00	0.00
9,700.00	2.60	250.54	9,691.66	-122.88	-347.68	119.41	0.00	0.00	0.00
9,800.00	2.60	250.54	9,791.56	-124.39	-351.96	120.88	0.00	0.00	0.00
9,900.00	2.60	250.54	9,891.45	-125.90	-356.23	122.35	0.00	0.00	0.00
10,000.00	2.60	250.54	9,991.35	-127.41	-360.50	123.82	0.00	0.00	0.00
10,100.00	2.60	250.54	10,091.25	-128.92	-364.78	125.28	0.00	0.00	0.00
10,200.00	2.60	250.54	10,191.15	-130.43	-369.05	126.75	0.00	0.00	0.00
10,300.00	2.60	250.54	10,291.04	-131.94	-373.33	128.22	0.00	0.00	0.00
10,400.00	2.60	250.54	10,390.94	-133.45	-377.60	129.69	0.00	0.00	0.00
10,500.00	2.60	250.54	10,490.84	-134.96	-381.87	131.16	0.00	0.00	0.00
10,600.00	2.60	250.54	10,590.74	-136.47	-386.15	132.62	0.00	0.00	0.00
10,700.00	2.60	250.54	10,690.63	-137.98	-390.42	134.09	0.00	0.00	0.00
10,800.00	2.60	250.54	10,790.53	-139.49	-394.69	135.56	0.00	0.00	0.00
10,900.00	2.60	250.54	10,890.43	-141.00	-398.97	137.03	0.00	0.00	0.00
11,000.00	2.60	250.54	10,990.32	-142.51	-403.24	138.50	0.00	0.00	0.00
11,100.00	2.60	250.54	11,090.22	-144.02	-407.52	139.96	0.00	0.00	0.00
11,200.00	2.60	250.54	11,190.12	-145.53	-411.79	141.43	0.00	0.00	0.00
11,300.00	2.60	250.54	11,290.02	-147.05	-416.06	142.90	0.00	0.00	0.00
11,400.00	2.60	250.54	11,389.91	-148.56	-420.34	144.37	0.00	0.00	0.00
11,444.32	2.60	250.54	11,434.18	-149.23	-422.23	145.02	0.00	0.00	0.00
Begin 2.00°/100' Drop									
11,500.00	1.48	250.54	11,489.83	-149.89	-424.10	145.66	2.00	-2.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3200.50usft (TBD)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3200.50usft (TBD)
Site:	El Campeon Fed Com (NAD83)	North Reference:	Grid
Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 08-31-22		

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)
11,574.22	0.00	0.00	11,564.04	-150.21	-425.01	145.97	2.00	-2.00	0.00
Begin Vertical Hold									
12,074.22	0.00	0.00	12,064.04	-150.21	-425.01	145.97	0.00	0.00	0.00
KOP2, Begin 10.00°/100' Build									
12,100.00	2.58	179.43	12,089.81	-150.79	-425.00	146.55	10.00	10.00	0.00
12,200.00	12.58	179.43	12,188.82	-163.96	-424.87	159.72	10.00	10.00	0.00
12,300.00	22.58	179.43	12,284.02	-194.12	-424.57	189.88	10.00	10.00	0.00
12,400.00	32.58	179.43	12,372.55	-240.35	-424.11	236.12	10.00	10.00	0.00
12,500.00	42.58	179.43	12,451.70	-301.26	-423.50	297.03	10.00	10.00	0.00
12,600.00	52.58	179.43	12,519.08	-374.98	-422.76	370.75	10.00	10.00	0.00
12,700.00	62.58	179.43	12,572.62	-459.28	-421.92	455.06	10.00	10.00	0.00
12,800.00	72.58	179.43	12,610.72	-551.60	-421.00	547.38	10.00	10.00	0.00
12,900.00	82.58	179.43	12,632.20	-649.13	-420.03	644.92	10.00	10.00	0.00
12,974.22	90.00	179.43	12,637.00	-723.14	-419.29	718.93	10.00	10.00	0.00
LP, Hold 90.00° Inc at 179.43° Azm									
13,000.00	90.00	179.43	12,637.00	-748.91	-419.03	744.71	0.00	0.00	0.00
13,100.00	90.00	179.43	12,637.00	-848.91	-418.03	844.71	0.00	0.00	0.00
13,200.00	90.00	179.43	12,637.00	-948.90	-417.03	944.71	0.00	0.00	0.00
13,300.00	90.00	179.43	12,637.00	-1,048.90	-416.04	1,044.71	0.00	0.00	0.00
13,400.00	90.00	179.43	12,637.00	-1,148.90	-415.04	1,144.71	0.00	0.00	0.00
13,500.00	90.00	179.43	12,637.00	-1,248.89	-414.04	1,244.71	0.00	0.00	0.00
13,600.00	90.00	179.43	12,637.00	-1,348.89	-413.04	1,344.71	0.00	0.00	0.00
13,700.00	90.00	179.43	12,637.00	-1,448.88	-412.04	1,444.71	0.00	0.00	0.00
13,800.00	90.00	179.43	12,637.00	-1,548.88	-411.05	1,544.71	0.00	0.00	0.00
13,900.00	90.00	179.43	12,637.00	-1,648.87	-410.05	1,644.71	0.00	0.00	0.00
14,000.00	90.00	179.43	12,637.00	-1,748.87	-409.05	1,744.71	0.00	0.00	0.00
14,100.00	90.00	179.43	12,637.00	-1,848.86	-408.05	1,844.71	0.00	0.00	0.00
14,200.00	90.00	179.43	12,637.00	-1,948.86	-407.05	1,944.71	0.00	0.00	0.00
14,300.00	90.00	179.43	12,637.00	-2,048.85	-406.05	2,044.71	0.00	0.00	0.00
14,400.00	90.00	179.43	12,637.00	-2,148.85	-405.06	2,144.71	0.00	0.00	0.00
14,500.00	90.00	179.43	12,637.00	-2,248.84	-404.06	2,244.71	0.00	0.00	0.00
14,600.00	90.00	179.43	12,637.00	-2,348.84	-403.06	2,344.71	0.00	0.00	0.00
14,700.00	90.00	179.43	12,637.00	-2,448.83	-402.06	2,444.71	0.00	0.00	0.00
14,800.00	90.00	179.43	12,637.00	-2,548.83	-401.06	2,544.71	0.00	0.00	0.00
14,900.00	90.00	179.43	12,637.00	-2,648.82	-400.07	2,644.71	0.00	0.00	0.00
15,000.00	90.00	179.43	12,637.00	-2,748.82	-399.07	2,744.71	0.00	0.00	0.00
15,100.00	90.00	179.43	12,637.00	-2,848.81	-398.07	2,844.71	0.00	0.00	0.00
15,200.00	90.00	179.43	12,637.00	-2,948.81	-397.07	2,944.71	0.00	0.00	0.00
15,300.00	90.00	179.43	12,637.00	-3,048.80	-396.07	3,044.71	0.00	0.00	0.00
15,400.00	90.00	179.43	12,637.00	-3,148.80	-395.07	3,144.71	0.00	0.00	0.00
15,500.00	90.00	179.43	12,637.00	-3,248.79	-394.08	3,244.71	0.00	0.00	0.00
15,600.00	90.00	179.43	12,637.00	-3,348.79	-393.08	3,344.71	0.00	0.00	0.00
15,700.00	90.00	179.43	12,637.00	-3,448.78	-392.08	3,444.71	0.00	0.00	0.00
15,800.00	90.00	179.43	12,637.00	-3,548.78	-391.08	3,544.71	0.00	0.00	0.00
15,900.00	90.00	179.43	12,637.00	-3,648.77	-390.08	3,644.71	0.00	0.00	0.00
16,000.00	90.00	179.43	12,637.00	-3,748.77	-389.08	3,744.71	0.00	0.00	0.00
16,100.00	90.00	179.43	12,637.00	-3,848.76	-388.09	3,844.71	0.00	0.00	0.00
16,200.00	90.00	179.43	12,637.00	-3,948.76	-387.09	3,944.71	0.00	0.00	0.00
16,300.00	90.00	179.43	12,637.00	-4,048.75	-386.09	4,044.71	0.00	0.00	0.00
16,400.00	90.00	179.43	12,637.00	-4,148.75	-385.09	4,144.71	0.00	0.00	0.00
16,500.00	90.00	179.43	12,637.00	-4,248.74	-384.09	4,244.71	0.00	0.00	0.00
16,600.00	90.00	179.43	12,637.00	-4,348.74	-383.10	4,344.71	0.00	0.00	0.00
16,700.00	90.00	179.43	12,637.00	-4,448.73	-382.10	4,444.71	0.00	0.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3200.50usft (TBD)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3200.50usft (TBD)
Site:	El Campeon Fed Com (NAD83)	North Reference:	Grid
Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 08-31-22		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,800.00	90.00	179.43	12,637.00	-4,548.73	-381.10	4,544.71	0.00	0.00	0.00
16,900.00	90.00	179.43	12,637.00	-4,648.72	-380.10	4,644.71	0.00	0.00	0.00
17,000.00	90.00	179.43	12,637.00	-4,748.72	-379.10	4,744.71	0.00	0.00	0.00
17,100.00	90.00	179.43	12,637.00	-4,848.71	-378.10	4,844.71	0.00	0.00	0.00
17,200.00	90.00	179.43	12,637.00	-4,948.71	-377.11	4,944.71	0.00	0.00	0.00
17,300.00	90.00	179.43	12,637.00	-5,048.70	-376.11	5,044.71	0.00	0.00	0.00
17,400.00	90.00	179.43	12,637.00	-5,148.70	-375.11	5,144.71	0.00	0.00	0.00
17,500.00	90.00	179.43	12,637.00	-5,248.69	-374.11	5,244.71	0.00	0.00	0.00
17,600.00	90.00	179.43	12,637.00	-5,348.69	-373.11	5,344.71	0.00	0.00	0.00
17,700.00	90.00	179.43	12,637.00	-5,448.68	-372.12	5,444.71	0.00	0.00	0.00
17,800.00	90.00	179.43	12,637.00	-5,548.68	-371.12	5,544.71	0.00	0.00	0.00
17,900.00	90.00	179.43	12,637.00	-5,648.67	-370.12	5,644.71	0.00	0.00	0.00
18,000.00	90.00	179.43	12,637.00	-5,748.67	-369.12	5,744.71	0.00	0.00	0.00
18,100.00	90.00	179.43	12,637.00	-5,848.66	-368.12	5,844.71	0.00	0.00	0.00
18,200.00	90.00	179.43	12,637.00	-5,948.66	-367.12	5,944.71	0.00	0.00	0.00
18,300.00	90.00	179.43	12,637.00	-6,048.65	-366.13	6,044.71	0.00	0.00	0.00
18,400.00	90.00	179.43	12,637.00	-6,148.65	-365.13	6,144.71	0.00	0.00	0.00
18,500.00	90.00	179.43	12,637.00	-6,248.64	-364.13	6,244.71	0.00	0.00	0.00
18,600.00	90.00	179.43	12,637.00	-6,348.64	-363.13	6,344.71	0.00	0.00	0.00
18,700.00	90.00	179.43	12,637.00	-6,448.63	-362.13	6,444.71	0.00	0.00	0.00
18,800.00	90.00	179.43	12,637.00	-6,548.63	-361.13	6,544.71	0.00	0.00	0.00
18,900.00	90.00	179.43	12,637.00	-6,648.62	-360.14	6,644.71	0.00	0.00	0.00
19,000.00	90.00	179.43	12,637.00	-6,748.62	-359.14	6,744.71	0.00	0.00	0.00
19,100.00	90.00	179.43	12,637.00	-6,848.61	-358.14	6,844.71	0.00	0.00	0.00
19,200.00	90.00	179.43	12,637.00	-6,948.61	-357.14	6,944.71	0.00	0.00	0.00
19,300.00	90.00	179.43	12,637.00	-7,048.60	-356.14	7,044.71	0.00	0.00	0.00
19,400.00	90.00	179.43	12,637.00	-7,148.60	-355.15	7,144.71	0.00	0.00	0.00
19,500.00	90.00	179.43	12,637.00	-7,248.59	-354.15	7,244.71	0.00	0.00	0.00
19,600.00	90.00	179.43	12,637.00	-7,348.59	-353.15	7,344.71	0.00	0.00	0.00
19,700.00	90.00	179.43	12,637.00	-7,448.58	-352.15	7,444.71	0.00	0.00	0.00
19,800.00	90.00	179.43	12,637.00	-7,548.58	-351.15	7,544.71	0.00	0.00	0.00
19,900.00	90.00	179.43	12,637.00	-7,648.57	-350.15	7,644.71	0.00	0.00	0.00
20,000.00	90.00	179.43	12,637.00	-7,748.57	-349.16	7,744.71	0.00	0.00	0.00
20,100.00	90.00	179.43	12,637.00	-7,848.56	-348.16	7,844.71	0.00	0.00	0.00
20,200.00	90.00	179.43	12,637.00	-7,948.56	-347.16	7,944.71	0.00	0.00	0.00
20,300.00	90.00	179.43	12,637.00	-8,048.55	-346.16	8,044.71	0.00	0.00	0.00
20,400.00	90.00	179.43	12,637.00	-8,148.55	-345.16	8,144.71	0.00	0.00	0.00
20,500.00	90.00	179.43	12,637.00	-8,248.54	-344.17	8,244.71	0.00	0.00	0.00
20,600.00	90.00	179.43	12,637.00	-8,348.54	-343.17	8,344.71	0.00	0.00	0.00
20,700.00	90.00	179.43	12,637.00	-8,448.53	-342.17	8,444.71	0.00	0.00	0.00
20,800.00	90.00	179.43	12,637.00	-8,548.53	-341.17	8,544.71	0.00	0.00	0.00
20,900.00	90.00	179.43	12,637.00	-8,648.52	-340.17	8,644.71	0.00	0.00	0.00
21,000.00	90.00	179.43	12,637.00	-8,748.52	-339.17	8,744.71	0.00	0.00	0.00
21,100.00	90.00	179.43	12,637.00	-8,848.51	-338.18	8,844.71	0.00	0.00	0.00
21,200.00	90.00	179.43	12,637.00	-8,948.51	-337.18	8,944.71	0.00	0.00	0.00
21,300.00	90.00	179.43	12,637.00	-9,048.50	-336.18	9,044.71	0.00	0.00	0.00
21,400.00	90.00	179.43	12,637.00	-9,148.50	-335.18	9,144.71	0.00	0.00	0.00
21,500.00	90.00	179.43	12,637.00	-9,248.49	-334.18	9,244.71	0.00	0.00	0.00
21,600.00	90.00	179.43	12,637.00	-9,348.49	-333.18	9,344.71	0.00	0.00	0.00
21,700.00	90.00	179.43	12,637.00	-9,448.48	-332.19	9,444.71	0.00	0.00	0.00
21,800.00	90.00	179.43	12,637.00	-9,548.48	-331.19	9,544.71	0.00	0.00	0.00
21,900.00	90.00	179.43	12,637.00	-9,648.47	-330.19	9,644.71	0.00	0.00	0.00
22,000.00	90.00	179.43	12,637.00	-9,748.47	-329.19	9,744.71	0.00	0.00	0.00
22,100.00	90.00	179.43	12,637.00	-9,848.46	-328.19	9,844.71	0.00	0.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3200.50usft (TBD)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3200.50usft (TBD)
Site:	El Campeon Fed Com (NAD83)	North Reference:	Grid
Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 08-31-22		

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)	
22,200.00	90.00	179.43	12,637.00	-9,948.46	-327.20	9,944.71	0.00	0.00	0.00	
22,300.00	90.00	179.43	12,637.00	-10,048.45	-326.20	10,044.71	0.00	0.00	0.00	
22,400.00	90.00	179.43	12,637.00	-10,148.45	-325.20	10,144.71	0.00	0.00	0.00	
22,500.00	90.00	179.43	12,637.00	-10,248.44	-324.20	10,244.71	0.00	0.00	0.00	
22,600.00	90.00	179.43	12,637.00	-10,348.44	-323.20	10,344.71	0.00	0.00	0.00	
22,700.00	90.00	179.43	12,637.00	-10,448.43	-322.20	10,444.71	0.00	0.00	0.00	
22,800.00	90.00	179.43	12,637.00	-10,548.43	-321.21	10,544.71	0.00	0.00	0.00	
22,900.00	90.00	179.43	12,637.00	-10,648.42	-320.21	10,644.71	0.00	0.00	0.00	
23,000.00	90.00	179.43	12,637.00	-10,748.42	-319.21	10,744.71	0.00	0.00	0.00	
23,100.00	90.00	179.43	12,637.00	-10,848.41	-318.21	10,844.71	0.00	0.00	0.00	
23,124.22	90.00	179.43	12,637.00	-10,872.63	-317.97	10,868.93	0.00	0.00	0.00	
TD at 23124.22										

Design Targets										
Target Name										
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting			
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude	
SLC - El Campeon 412H - plan misses target center by 0.16usft at 20558.19usft MD (12637.00 TVD, -8306.73 N, -343.58 E) - Point	0.00	0.00	12,637.00	-8,306.73	-343.74	365,114.79	832,963.24	32° 0' 1.053819 N 103° 23' 33.304600 W		
BHL - El Campeon 412H - plan hits target center - Point	0.00	0.00	12,637.00	-10,872.63	-317.97	362,548.89	832,989.01	31° 59' 35.661809 N 103° 23' 33.264605 W		
FTP - El Campeon 412H - plan misses target center by 1.48usft at 12933.08usft MD (12635.52 TVD, -682.03 N, -419.70 E) - Point	0.00	0.00	12,637.00	-681.94	-419.70	372,739.58	832,887.28	32° 1' 16.508118 N 103° 23' 33.416006 W		
LTP - El Campeon 412H - plan hits target center - Point	0.00	0.00	12,637.00	-10,778.15	-318.91	362,643.37	832,988.07	31° 59' 36.596778 N 103° 23' 33.265976 W		

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
23,164.90		20" Casing		20	24

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
1,500.00	1,500.00	+N/-S (usft)	+E/-W (usft)	KOP, Begin 2.00°/100' Build	
1,629.90	1,629.86	-0.98	-2.78	Hold 2.60° Inc at 250.54° Azm	
11,444.32	11,434.18	-149.23	-422.23	Begin 2.00°/100' Drop	
11,574.22	11,564.04	-150.21	-425.01	Begin Vertical Hold	
12,074.22	12,064.04	-150.21	-425.01	KOP2, Begin 10.00°/100' Build	
12,974.22	12,637.00	-723.14	-419.29	LP, Hold 90.00° Inc at 179.43° Azm	
23,124.22	12,637.00	-10,872.63	-317.97	TD at 23124.22	

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Earthstone
LEASE NO.:	NMNM134888
LOCATION:	Section 20, T.26 S., R.35 E., NMPM
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:	El CampeonFed Com 412H
SURFACE HOLE FOOTAGE:	579'S & 2077'/W
BOTTOM HOLE FOOTAGE:	0'S & 1650'/W

COA

H2S	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input type="checkbox"/> Fluid Filled	<input checked="" type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **10-3/4** inch surface casing shall be set at approximately **1100** feet (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8**

hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.

Wait on cement (WOC) time for a primary cement job is to include the tail cement slurry due to cave/karst.

Operator has proposed to pump down 7-5/8" X 10-3/4" annulus. Operator must run a CBL from TD of the 7-5/8" casing to surface. Submit results to BLM.

Operator shall use the Minimum Max MW of 12.5ppg in this location due to Abnormal Pressure in this area.

3. The minimum required fill of cement behind the **5-1/2 x 5** inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. **Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).**
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after

- installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
- b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for

details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE.

If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

ZS011323

Titus Oil & Gas Production, LLC - El Campeon Fed Com 412H

1. Geologic Formations

TVD of target	12,637' EOL	Pilot hole depth	NA
MD at TD:	23,124'	Deepest expected fresh water:	400'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1050	Water	
Top of Salt	1482	Salt	
Base of Salt	5052	Salt	
Lamar	5350	Salt Water	
Delaware	5372	Salt Water	
Bone Spring Lime	9238	Oil/Gas	
1st Bone Spring	10605	Oil/Gas	
2nd Bone Spring	11092	Oil/Gas	
3rd Bone Spring	12164	Oil/Gas	
Wolfcamp	12460	Oil/Gas	
Wolfcamp X Sand	12495	Oil/Gas	
Wolfcamp Y Sand	12556	Oil/Gas	
Wolfcamp A	12585	Target Oil/Gas	
Wolfcamp B	12914	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body
	From	To							
13.5"	0	1075	10.75"	45.5	J55	BTC	4.25	0.81	14.62
9.875"	0	12000	7.625"	29.7	HCL80	BTC	1.18	1.06	2.04
6.75"	0	11800	5.5"	20	P110	BTC	1.87	1.95	3.20
6.75"	11800	23,124	5"	18	P110	BTC	1.87	1.95	3.20
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse.
 Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and
 All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

The 5" casing will be run back 200' into the intermediate casing to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

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	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary?	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

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3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	250	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Int	900	10.3	3.6	22.95	16	TXI Lightweight Blend
	250	13.5	1.5	7.8	8	Tail: Class H
Prod	1250	14.2	1.25	6.2	19	Tail: 50:50:2 Class H Blend

Contingency remediation cement plan for intermediate casing if cmt is not circulated to surface:1st Stage - Bradenhead Stage Notes

Operator will pump 1000+ sx of Class C and allow cement to fall into place. Operator will not put any fluid on top of the cement after the fall. This will leave annuls filled with air to TOC. We will WOC +/- 2 hrs (or when surface samples are firm enough) to ensure cement is set up. TOC will be above the Lamar allowing for the fill up stage.

2nd Stage - Fill Up Stage Notes

After WOC to allow the Bradenhead Stage to set up, operator will proceed with the Fill Up Stage. Since there is only air in the annulus (no fluid will be placed in annulus after bradenhead stage), we will pump cement with opposite valve set to allow air to displace out. Fill up cement will be mixed and pumped until returns are taken to surface to complete the fill up. This will confirm a solid column of cement in the annulus all the way to surface completing the top out job. Operator will WOC after cement returns have been taken to surface.

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
Production	11,800'	35% OH in Lateral (KOP to EOL)

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4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
9-7/8"	13-5/8"	3M	Annular	x	3000 psi
			Blind Ram		3M
			Pipe Ram		
			Double Ram		
			Other*		
6-3/4"	13-5/8"	10M	Annular	x	50% testing pressure
			Blind Ram	x	5M
			VBR Ram	x	
			VBR Ram	x	
			Other*		

See attached 5M Annular Variance Well Control plan for Titus Oil & Gas Production, LLC.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

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5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	9-5/8" Int shoe	Nova N-Gauge	8.4 - 9	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	10.8 - 11.8	35-45	<20

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
---	-----------------------------

6. Logging and Testing Procedures

Logging, Coring and Testing.	
Y	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
N	No Logs are planned based on well control or offset log information.
N	Drill stem test? If yes, explain.
N	Coring? If yes, explain.

Additional logs planned		Interval
N	Resistivity	Pilot Hole TD to ICP
N	Density	Pilot Hole TD to ICP
Y	CBL	Production casing (If cement not circulated to surface)
Y	Mud log	Intermediate shoe to TD
N	PEX	

Titus Oil & Gas Production, LLC - El Campeon Fed Com 412H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	7755 psi at 12637' TVD
Abnormal Temperature	NO 180 Deg. F.

No abnormal pressure or temperature conditions are anticipated. Sufficient mud materials to maintain mud properties and weight increase requirements will be kept on location at all times.

Sufficient supplies of Paper/LCM for periodic sweeps to control seepage and losses will be maintained on location.

Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

Y	Is it a walking operation?
N	Is casing pre-set?

x	H ₂ S Plan.
x	BOP & Choke Schematics.
x	Directional Plan
x	Multibowl Schematic

District I

1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III

1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-025-48136	2 Pool Code 98234	3 Pool Name WC-025 G-09 S263619C, Wolfcamp
4 Property Code	5 Property Name EL CAMPEON FED COM	6 Well Number 412H
7 OGRID No. 331165	8 Operator Name EARTHSTONE OPERATING LLC	9 Elevation 3174'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	20	26-S	35-E		579'	SOUTH	2077'	WEST	LEA

¹¹ State Line Crossing If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County (TX)
1	32	26S	35E	L3	0'	SOUTH	1650'	WEST	LEA

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
240	Y		

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

***BHL & LTP WILL BE IN TEXAS**

<p>16 SURFACE HOLE LOCATION (SHL) NEW MEXICO EAST - NAD 83 X=833306.98 LAT.= 32.02311659° N Y=373421.52 LONG.= 103.39124233° W NEW MEXICO EAST - NAD 27 X=792118.65 LAT.= 32.02299008° N Y=373364.33 LONG.= 103.39078242° W 579' FSL, 2077' FWL - SECTION 20</p> <p>FIRST TAKE POINT (FTP) NEW MEXICO EAST - NAD 83 X=832887.25 LAT.= 32.02125226° N Y=372739.58 LONG.= 103.39261565° W NEW MEXICO EAST - NAD 27 X=791698.90 LAT.= 32.02112575° N Y=372682.42 LONG.= 103.39215580° W 100' FNL, 1651' FWL - SECTION 29 100' FNL, 330' FWL - LEASE</p> <p>STATE LINE CROSSING (SLC) NEW MEXICO EAST - NAD 83 X=832963.24 LAT.= 32.00029272° N Y=365114.79 LONG.= 103.39258461° W NEW MEXICO EAST - NAD 27 X=791774.55 LAT.= 32.00016610° N Y=365057.83 LONG.= -103.39212594° W 0' FSL, 1650' FWL - SECTION 32 0' FSL, 331' FWL - LEASE MD = 20,700'</p> <p>LAST TAKE POINT (LTP) TEXAS CENTRAL - NAD 83 X=1348191.71 LAT.= 31.99349913° N Y=10701853.30 LONG.= 103.39257438° W TEXAS CENTRAL - NAD 27 X=1051728.99 LAT.= 31.99337247° N Y=859274.35 LONG.= 103.39211590° W 100' FSL, 5257' FWL - SECTION 25 100' FSL, 331' FWL - LEASE</p> <p>BOTTOM HOLE LOCATION (BHL) TEXAS CENTRAL - NAD 83 X=1348189.24 LAT.= 31.99323941° N Y=10701758.85 LONG.= 103.39257398° W TEXAS CENTRAL - NAD 27 X=1051726.51 LAT.= 31.99311275° N Y=859179.90 LONG.= 103.39211550° W 10' FSL, 5228' FWL - SECTION 25 10' FSL, 331' FWL - LEASE</p>	<p>17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and 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 such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Roger Lowery</i> Signature 11/28/2022 Date</p> <p>Roger Lowery Printed Name rlowery@earthstoneenergy.com E-mail Address</p> <p>SURVEYOR 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.</p> <p><i>Charles L. Judd</i> Date of Survey 11/28/2022 Signature and Seal of Professional Surveyor: Certificate Number 25490</p>
---	--

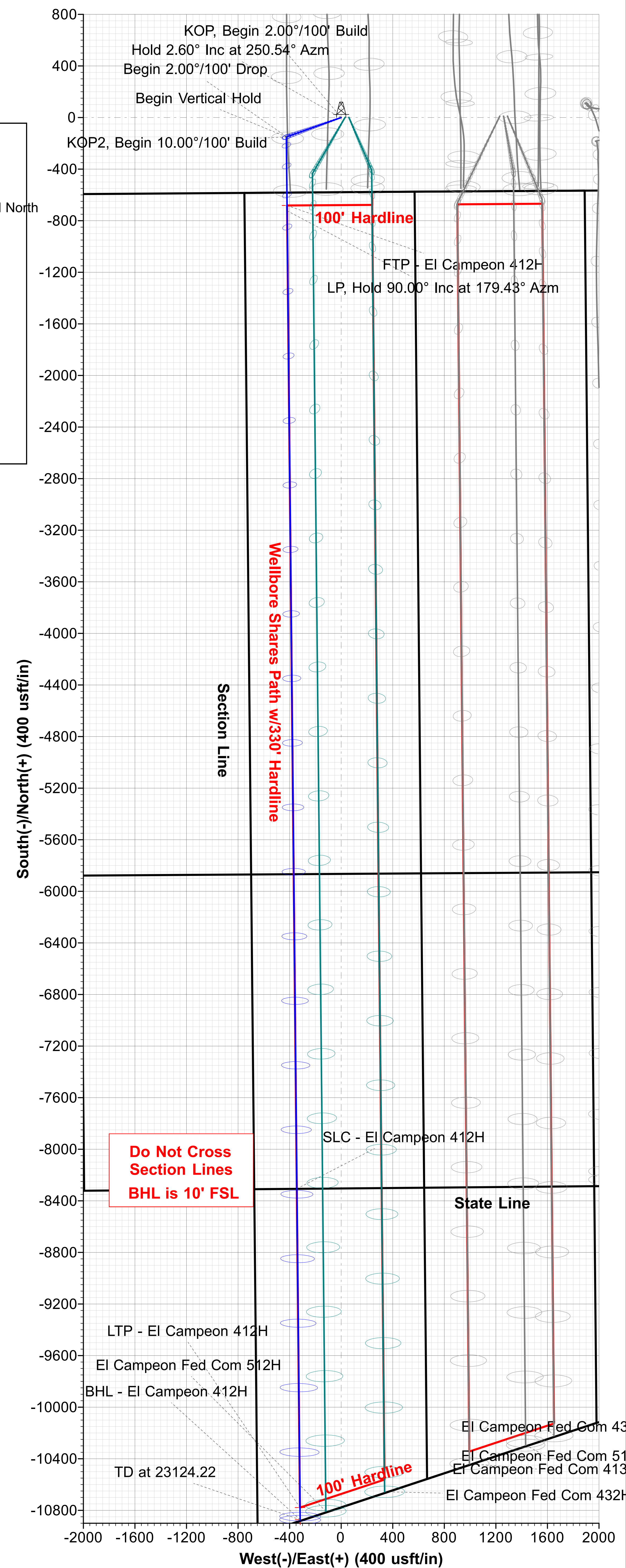
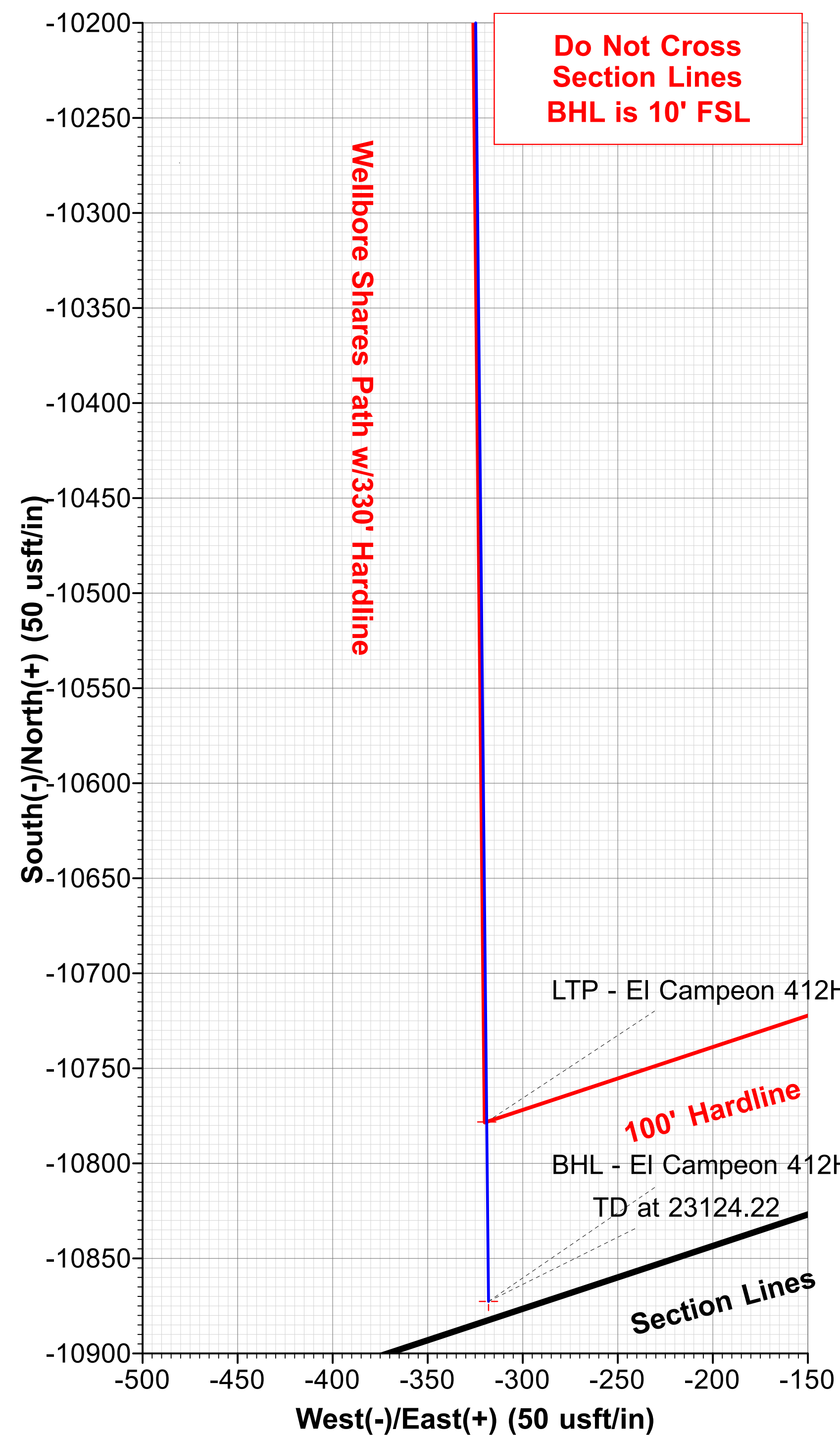
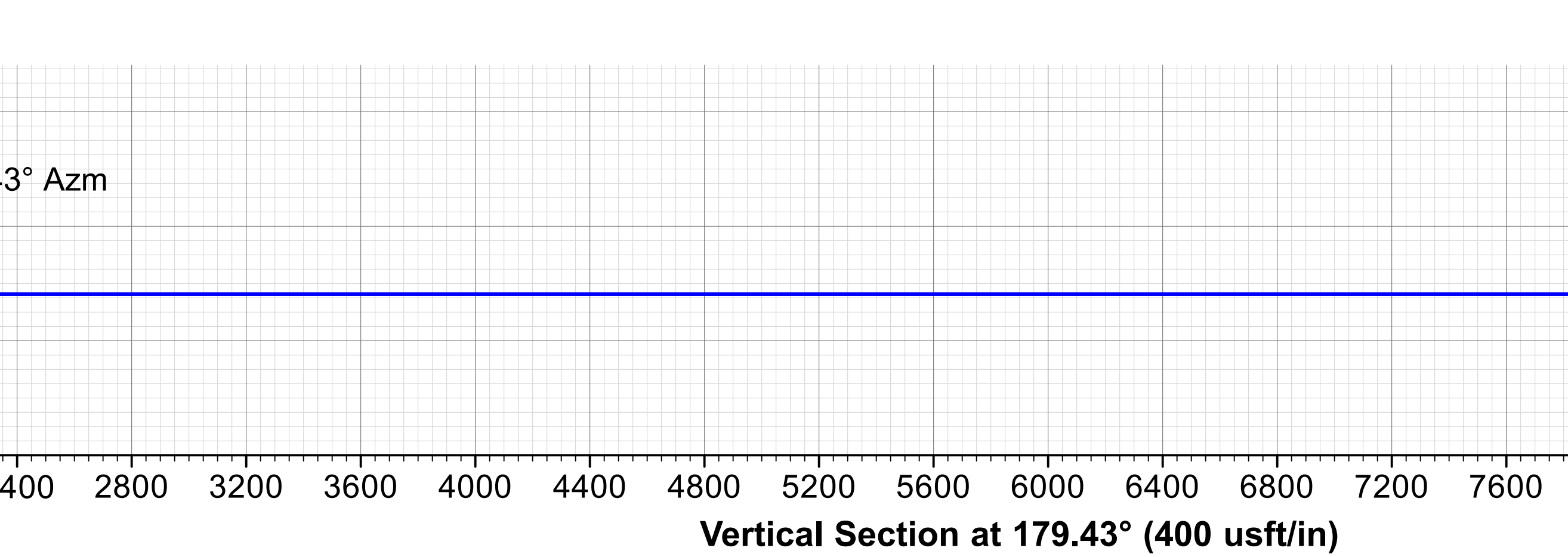
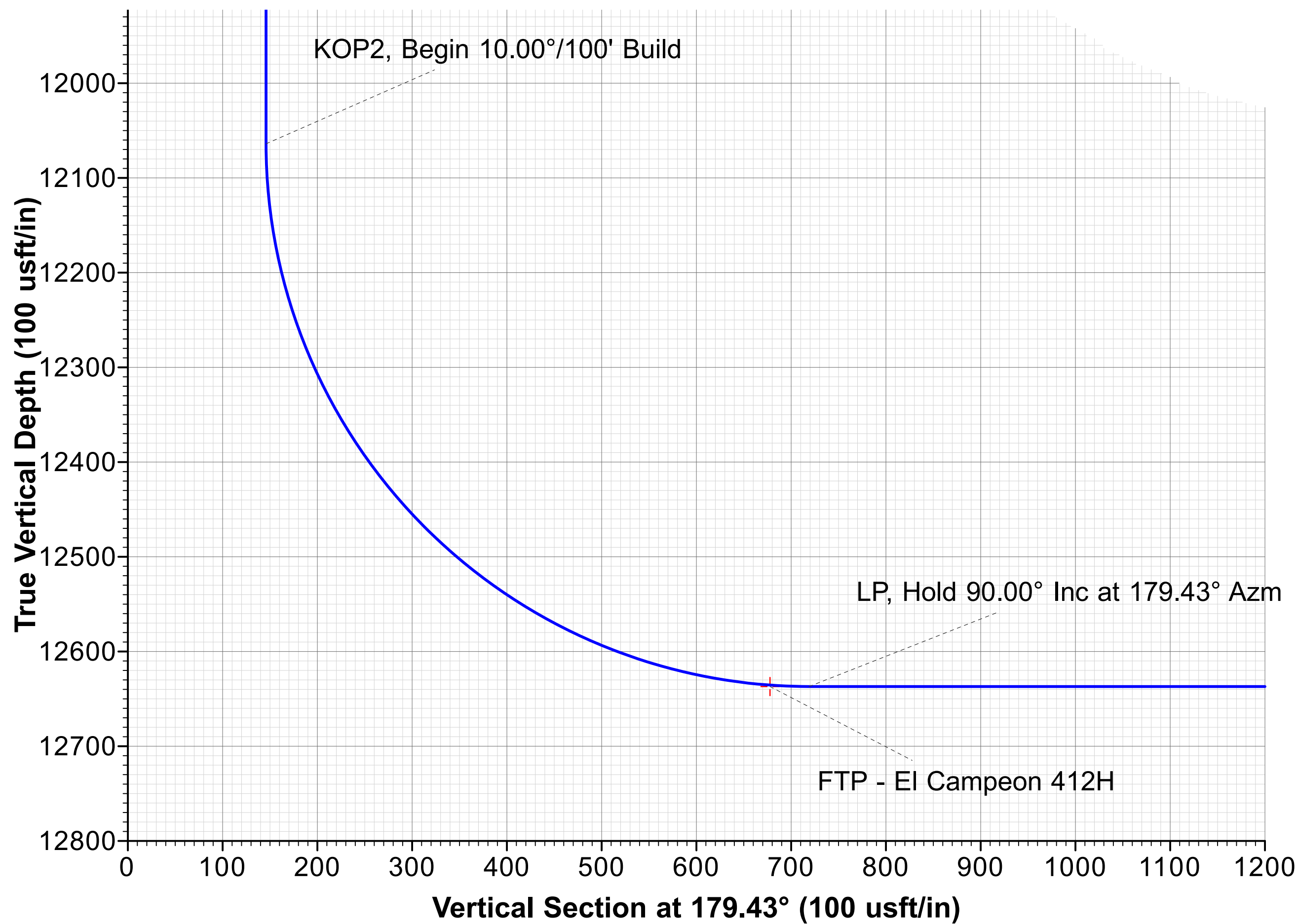
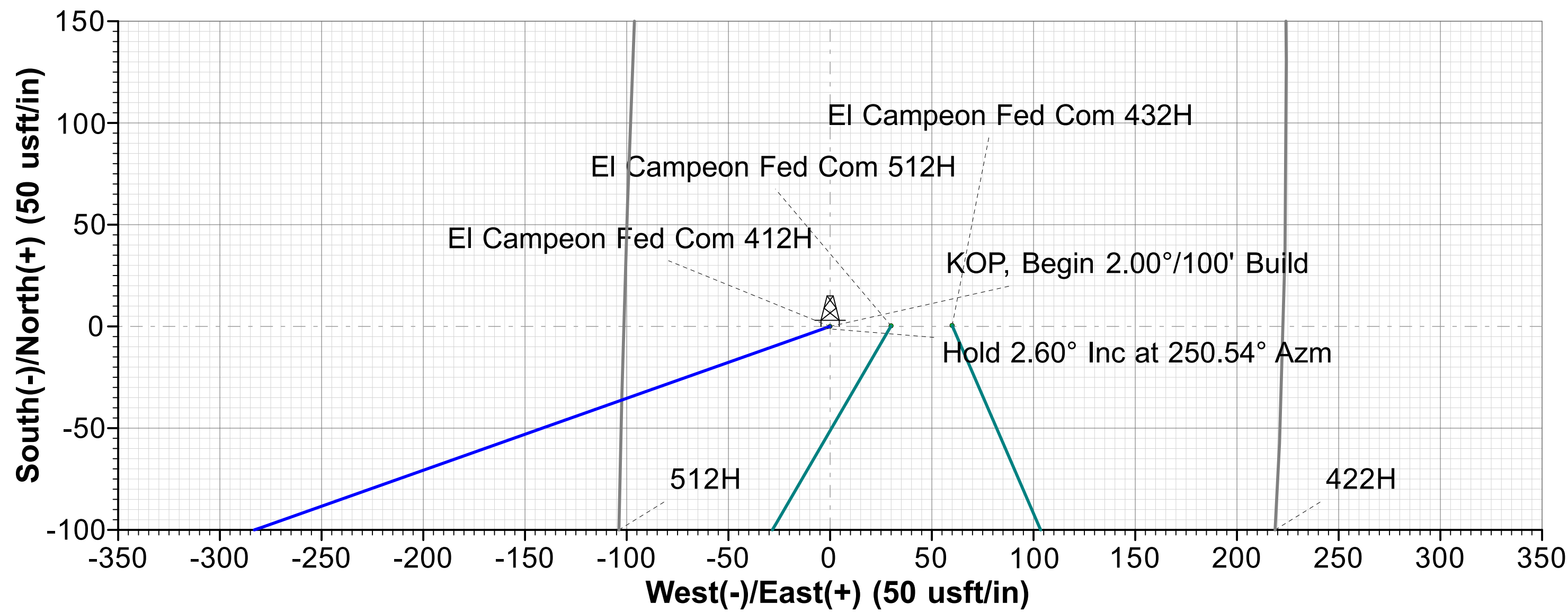
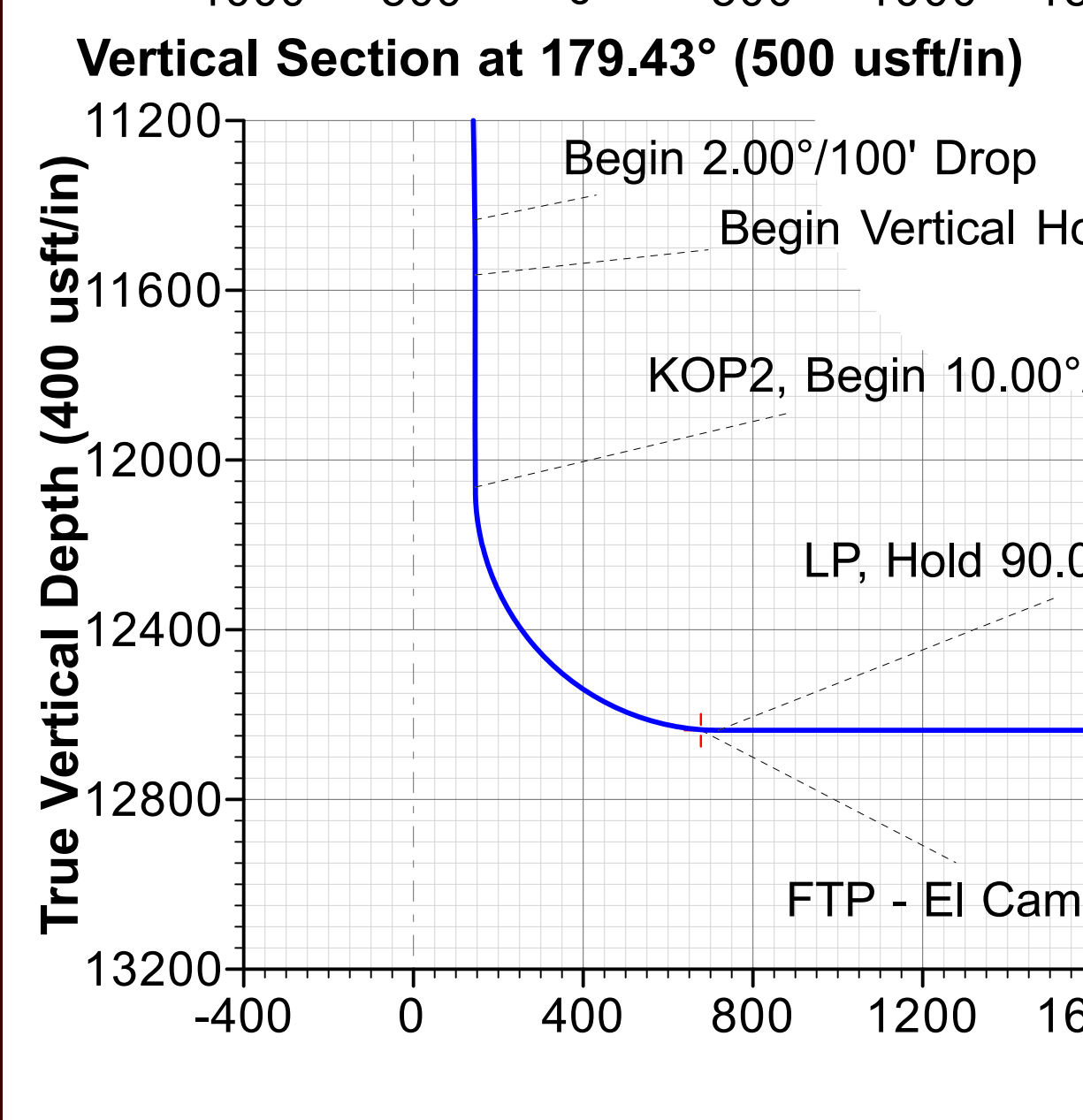
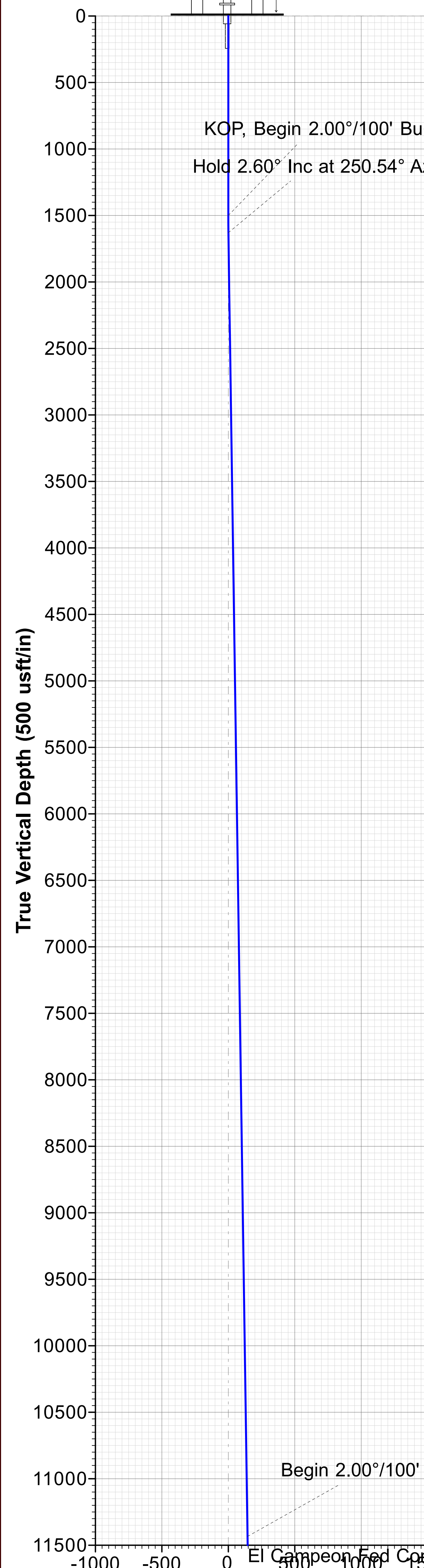
RKB @ 3200.50usft (TBD)
Ground Level: 3174.00

WELL DETAILS						
	+N/-S	+E/-W	Northing	Ground Level: Easting	Latitude	Longitude
	0.00	0.00	373421.52	3174.00 833306.98	32° 1' 23.219757 N	103° 23' 28.472357 W

DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
BHL - El Campeon 412H	12637.00	-10872.63	-317.97	362548.89	832989.01	31° 59' 35.661809 N
FTP - El Campeon 412H	12637.00	-681.94	-419.70	372739.58	832887.28	32° 1' 16.508118 N
LTP - El Campeon 412H	12637.00	-10778.15	-318.91	362643.37	832988.07	31° 59' 36.596778 N
SLC - El Campeon 412H	12637.00	-8306.73	-343.74	365114.79	832963.24	32° 0' 1.053819 N

SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00		KOP, Begin 2.00°/100' Build
2	1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.000	0.00		Hold 2.60° Inc at 250.54° Azm
3	1629.90	2.60	250.54	1629.86	-0.98	-2.78	2.00	250.536	0.95		Begin 2.00°/100' Drop
4	11444.32	2.60	250.54	11434.18	-149.23	-422.23	0.00	0.000	145.02		Begin Vertical Hold
5	11574.22	0.00	0.00	11564.04	-150.21	-425.01	2.00	180.000	145.97		KOP2, Begin 10.00°/100' Build
6	12074.22	0.00	0.00	12064.04	-150.21	-425.01	0.00	0.000	145.97		LP, Hold 90.00° Inc at 179.43° Azm
7	12974.22	90.00	179.43	12637.00	-723.14	-419.29	10.00	179.428	718.93		TD at 23124.22
8	23124.22	90.00	179.43	12637.00	-10872.63	-317.97	0.00	0.000	10868.93	BHL - El Campeon 412H	

Map System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone Name: New Mexico Eastern Zone
Local Origin: Well El Campeon Fed Com 412H, Grid North
Latitude: 32° 1' 23.219757 N
Longitude: 103° 23' 28.472357 W
Grid East: 833306.98
Grid North: 373421.52
Scale Factor: 1.000
Geomagnetic Model: MVHD
Sample Date: 30-Sep-22
Magnetic Declination: 6.244°
Dip Angle from Horizontal: 59.579°
Magnetic Field Strength: 47316.67969306nT
To convert a Magnetic Direction to a Grid Direction, Add 5.744°
To convert a Magnetic Direction to a True Direction, Add 6.244° East
To convert a True Direction to a Grid Direction, Subtract 0.500°





Titus Oil & Gas Production, LLC

Lea County, NM - (NAD83 NME)

El Campeon Fed Com (NAD83)

El Campeon Fed Com 412H

OH

Plan: Plan 1 08-31-22

Standard Planning Report

31 August, 2022





Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3200.50usft (TBD)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3200.50usft (TBD)
Site:	El Campeon Fed Com (NAD83)	North Reference:	Grid
Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 08-31-22		

Project	Lea County, NM - (NAD83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		El Campeon Fed Com (NAD83)			
Site Position: From:	Map	Northing:	373,195.63 usft	Latitude:	32° 1' 20.984376 N
		Easting:	833,309.19 usft	Longitude:	103° 23' 28.469580 W
		Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "

Well	El Campeon Fed Com 412H					
Well Position	+N/-S	225.89 usft	Northing:	373,421.52 usft	Latitude:	32° 1' 23.219757 N
	+E/-W	-2.21 usft	Easting:	833,306.98 usft	Longitude:	103° 23' 28.472357 W
Position Uncertainty		1.00 usft	Wellhead Elevation:		Ground Level:	3,174.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	9/30/2022	6.244	59.579	47,316.67969305

Design	Plan 1 08-31-22			
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	179.43

Plan Survey Tool Program	Date	8/31/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	23,124.22 Plan 1 08-31-22 (OH)	MWD+HRGM	
			OWSG MWD + HRGM	

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	
1,629.90	2.60	250.54	1,629.86	-0.98	-2.78	2.00	2.00	0.00	250.536	
11,444.32	2.60	250.54	11,434.18	-149.23	-422.23	0.00	0.00	0.00	0.000	
11,574.22	0.00	0.00	11,564.04	-150.21	-425.01	2.00	-2.00	0.00	180.000	
12,074.22	0.00	0.00	12,064.04	-150.21	-425.01	0.00	0.00	0.00	0.000	
12,974.22	90.00	179.43	12,637.00	-723.14	-419.29	10.00	10.00	0.00	179.428	
23,124.22	90.00	179.43	12,637.00	-10,872.63	-317.97	0.00	0.00	0.00	0.000	BHL - El Campeon 41



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3200.50usft (TBD)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3200.50usft (TBD)
Site:	El Campeon Fed Com (NAD83)	North Reference:	Grid
Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 08-31-22		

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
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Begin 2.00°/100' Build									
1,600.00	2.00	250.54	1,599.98	-0.58	-1.65	0.57	2.00	2.00	0.00
1,629.90	2.60	250.54	1,629.86	-0.98	-2.78	0.95	2.00	2.00	0.00
Hold 2.60° Inc at 250.54° Azm									
1,700.00	2.60	250.54	1,699.88	-2.04	-5.77	1.98	0.00	0.00	0.00
1,800.00	2.60	250.54	1,799.78	-3.55	-10.05	3.45	0.00	0.00	0.00
1,900.00	2.60	250.54	1,899.68	-5.06	-14.32	4.92	0.00	0.00	0.00
2,000.00	2.60	250.54	1,999.58	-6.57	-18.59	6.39	0.00	0.00	0.00
2,100.00	2.60	250.54	2,099.47	-8.08	-22.87	7.85	0.00	0.00	0.00
2,200.00	2.60	250.54	2,199.37	-9.59	-27.14	9.32	0.00	0.00	0.00
2,300.00	2.60	250.54	2,299.27	-11.10	-31.42	10.79	0.00	0.00	0.00
2,400.00	2.60	250.54	2,399.16	-12.61	-35.69	12.26	0.00	0.00	0.00
2,500.00	2.60	250.54	2,499.06	-14.12	-39.96	13.73	0.00	0.00	0.00
2,600.00	2.60	250.54	2,598.96	-15.63	-44.24	15.19	0.00	0.00	0.00
2,700.00	2.60	250.54	2,698.86	-17.14	-48.51	16.66	0.00	0.00	0.00
2,800.00	2.60	250.54	2,798.75	-18.66	-52.78	18.13	0.00	0.00	0.00
2,900.00	2.60	250.54	2,898.65	-20.17	-57.06	19.60	0.00	0.00	0.00
3,000.00	2.60	250.54	2,998.55	-21.68	-61.33	21.06	0.00	0.00	0.00
3,100.00	2.60	250.54	3,098.44	-23.19	-65.61	22.53	0.00	0.00	0.00
3,200.00	2.60	250.54	3,198.34	-24.70	-69.88	24.00	0.00	0.00	0.00
3,300.00	2.60	250.54	3,298.24	-26.21	-74.15	25.47	0.00	0.00	0.00
3,400.00	2.60	250.54	3,398.14	-27.72	-78.43	26.94	0.00	0.00	0.00
3,500.00	2.60	250.54	3,498.03	-29.23	-82.70	28.40	0.00	0.00	0.00
3,600.00	2.60	250.54	3,597.93	-30.74	-86.98	29.87	0.00	0.00	0.00
3,700.00	2.60	250.54	3,697.83	-32.25	-91.25	31.34	0.00	0.00	0.00
3,800.00	2.60	250.54	3,797.72	-33.76	-95.52	32.81	0.00	0.00	0.00
3,900.00	2.60	250.54	3,897.62	-35.27	-99.80	34.28	0.00	0.00	0.00
4,000.00	2.60	250.54	3,997.52	-36.78	-104.07	35.74	0.00	0.00	0.00
4,100.00	2.60	250.54	4,097.42	-38.29	-108.35	37.21	0.00	0.00	0.00
4,200.00	2.60	250.54	4,197.31	-39.80	-112.62	38.68	0.00	0.00	0.00
4,300.00	2.60	250.54	4,297.21	-41.31	-116.89	40.15	0.00	0.00	0.00
4,400.00	2.60	250.54	4,397.11	-42.82	-121.17	41.62	0.00	0.00	0.00
4,500.00	2.60	250.54	4,497.01	-44.33	-125.44	43.08	0.00	0.00	0.00
4,600.00	2.60	250.54	4,596.90	-45.84	-129.71	44.55	0.00	0.00	0.00
4,700.00	2.60	250.54	4,696.80	-47.35	-133.99	46.02	0.00	0.00	0.00
4,800.00	2.60	250.54	4,796.70	-48.86	-138.26	47.49	0.00	0.00	0.00
4,900.00	2.60	250.54	4,896.59	-50.38	-142.54	48.95	0.00	0.00	0.00
5,000.00	2.60	250.54	4,996.49	-51.89	-146.81	50.42	0.00	0.00	0.00
5,100.00	2.60	250.54	5,096.39	-53.40	-151.08	51.89	0.00	0.00	0.00
5,200.00	2.60	250.54	5,196.29	-54.91	-155.36	53.36	0.00	0.00	0.00
5,300.00	2.60	250.54	5,296.18	-56.42	-159.63	54.83	0.00	0.00	0.00
5,400.00	2.60	250.54	5,396.08	-57.93	-163.91	56.29	0.00	0.00	0.00
5,500.00	2.60	250.54	5,495.98	-59.44	-168.18	57.76	0.00	0.00	0.00
5,600.00	2.60	250.54	5,595.87	-60.95	-172.45	59.23	0.00	0.00	0.00
5,700.00	2.60	250.54	5,695.77	-62.46	-176.73	60.70	0.00	0.00	0.00
5,800.00	2.60	250.54	5,795.67	-63.97	-181.00	62.17	0.00	0.00	0.00
5,900.00	2.60	250.54	5,895.57	-65.48	-185.27	63.63	0.00	0.00	0.00
6,000.00	2.60	250.54	5,995.46	-66.99	-189.55	65.10	0.00	0.00	0.00
6,100.00	2.60	250.54	6,095.36	-68.50	-193.82	66.57	0.00	0.00	0.00
6,200.00	2.60	250.54	6,195.26	-70.01	-198.10	68.04	0.00	0.00	0.00
6,300.00	2.60	250.54	6,295.16	-71.52	-202.37	69.50	0.00	0.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3200.50usft (TBD)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3200.50usft (TBD)
Site:	El Campeon Fed Com (NAD83)	North Reference:	Grid
Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 08-31-22		

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)
6,400.00	2.60	250.54	6,395.05	-73.03	-206.64	70.97	0.00	0.00	0.00
6,500.00	2.60	250.54	6,494.95	-74.54	-210.92	72.44	0.00	0.00	0.00
6,600.00	2.60	250.54	6,594.85	-76.05	-215.19	73.91	0.00	0.00	0.00
6,700.00	2.60	250.54	6,694.74	-77.56	-219.47	75.38	0.00	0.00	0.00
6,800.00	2.60	250.54	6,794.64	-79.07	-223.74	76.84	0.00	0.00	0.00
6,900.00	2.60	250.54	6,894.54	-80.58	-228.01	78.31	0.00	0.00	0.00
7,000.00	2.60	250.54	6,994.44	-82.10	-232.29	79.78	0.00	0.00	0.00
7,100.00	2.60	250.54	7,094.33	-83.61	-236.56	81.25	0.00	0.00	0.00
7,200.00	2.60	250.54	7,194.23	-85.12	-240.84	82.72	0.00	0.00	0.00
7,300.00	2.60	250.54	7,294.13	-86.63	-245.11	84.18	0.00	0.00	0.00
7,400.00	2.60	250.54	7,394.02	-88.14	-249.38	85.65	0.00	0.00	0.00
7,500.00	2.60	250.54	7,493.92	-89.65	-253.66	87.12	0.00	0.00	0.00
7,600.00	2.60	250.54	7,593.82	-91.16	-257.93	88.59	0.00	0.00	0.00
7,700.00	2.60	250.54	7,693.72	-92.67	-262.20	90.06	0.00	0.00	0.00
7,800.00	2.60	250.54	7,793.61	-94.18	-266.48	91.52	0.00	0.00	0.00
7,900.00	2.60	250.54	7,893.51	-95.69	-270.75	92.99	0.00	0.00	0.00
8,000.00	2.60	250.54	7,993.41	-97.20	-275.03	94.46	0.00	0.00	0.00
8,100.00	2.60	250.54	8,093.31	-98.71	-279.30	95.93	0.00	0.00	0.00
8,200.00	2.60	250.54	8,193.20	-100.22	-283.57	97.39	0.00	0.00	0.00
8,300.00	2.60	250.54	8,293.10	-101.73	-287.85	98.86	0.00	0.00	0.00
8,400.00	2.60	250.54	8,393.00	-103.24	-292.12	100.33	0.00	0.00	0.00
8,500.00	2.60	250.54	8,492.89	-104.75	-296.40	101.80	0.00	0.00	0.00
8,600.00	2.60	250.54	8,592.79	-106.26	-300.67	103.27	0.00	0.00	0.00
8,700.00	2.60	250.54	8,692.69	-107.77	-304.94	104.73	0.00	0.00	0.00
8,800.00	2.60	250.54	8,792.59	-109.28	-309.22	106.20	0.00	0.00	0.00
8,900.00	2.60	250.54	8,892.48	-110.79	-313.49	107.67	0.00	0.00	0.00
9,000.00	2.60	250.54	8,992.38	-112.30	-317.76	109.14	0.00	0.00	0.00
9,100.00	2.60	250.54	9,092.28	-113.81	-322.04	110.61	0.00	0.00	0.00
9,200.00	2.60	250.54	9,192.17	-115.33	-326.31	112.07	0.00	0.00	0.00
9,300.00	2.60	250.54	9,292.07	-116.84	-330.59	113.54	0.00	0.00	0.00
9,400.00	2.60	250.54	9,391.97	-118.35	-334.86	115.01	0.00	0.00	0.00
9,500.00	2.60	250.54	9,491.87	-119.86	-339.13	116.48	0.00	0.00	0.00
9,600.00	2.60	250.54	9,591.76	-121.37	-343.41	117.95	0.00	0.00	0.00
9,700.00	2.60	250.54	9,691.66	-122.88	-347.68	119.41	0.00	0.00	0.00
9,800.00	2.60	250.54	9,791.56	-124.39	-351.96	120.88	0.00	0.00	0.00
9,900.00	2.60	250.54	9,891.45	-125.90	-356.23	122.35	0.00	0.00	0.00
10,000.00	2.60	250.54	9,991.35	-127.41	-360.50	123.82	0.00	0.00	0.00
10,100.00	2.60	250.54	10,091.25	-128.92	-364.78	125.28	0.00	0.00	0.00
10,200.00	2.60	250.54	10,191.15	-130.43	-369.05	126.75	0.00	0.00	0.00
10,300.00	2.60	250.54	10,291.04	-131.94	-373.33	128.22	0.00	0.00	0.00
10,400.00	2.60	250.54	10,390.94	-133.45	-377.60	129.69	0.00	0.00	0.00
10,500.00	2.60	250.54	10,490.84	-134.96	-381.87	131.16	0.00	0.00	0.00
10,600.00	2.60	250.54	10,590.74	-136.47	-386.15	132.62	0.00	0.00	0.00
10,700.00	2.60	250.54	10,690.63	-137.98	-390.42	134.09	0.00	0.00	0.00
10,800.00	2.60	250.54	10,790.53	-139.49	-394.69	135.56	0.00	0.00	0.00
10,900.00	2.60	250.54	10,890.43	-141.00	-398.97	137.03	0.00	0.00	0.00
11,000.00	2.60	250.54	10,990.32	-142.51	-403.24	138.50	0.00	0.00	0.00
11,100.00	2.60	250.54	11,090.22	-144.02	-407.52	139.96	0.00	0.00	0.00
11,200.00	2.60	250.54	11,190.12	-145.53	-411.79	141.43	0.00	0.00	0.00
11,300.00	2.60	250.54	11,290.02	-147.05	-416.06	142.90	0.00	0.00	0.00
11,400.00	2.60	250.54	11,389.91	-148.56	-420.34	144.37	0.00	0.00	0.00
11,444.32	2.60	250.54	11,434.18	-149.23	-422.23	145.02	0.00	0.00	0.00
Begin 2.00°/100' Drop									
11,500.00	1.48	250.54	11,489.83	-149.89	-424.10	145.66	2.00	-2.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3200.50usft (TBD)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3200.50usft (TBD)
Site:	El Campeon Fed Com (NAD83)	North Reference:	Grid
Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 08-31-22		

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)
11,574.22	0.00	0.00	11,564.04	-150.21	-425.01	145.97	2.00	-2.00	0.00
Begin Vertical Hold									
12,074.22	0.00	0.00	12,064.04	-150.21	-425.01	145.97	0.00	0.00	0.00
KOP2, Begin 10.00°/100' Build									
12,100.00	2.58	179.43	12,089.81	-150.79	-425.00	146.55	10.00	10.00	0.00
12,200.00	12.58	179.43	12,188.82	-163.96	-424.87	159.72	10.00	10.00	0.00
12,300.00	22.58	179.43	12,284.02	-194.12	-424.57	189.88	10.00	10.00	0.00
12,400.00	32.58	179.43	12,372.55	-240.35	-424.11	236.12	10.00	10.00	0.00
12,500.00	42.58	179.43	12,451.70	-301.26	-423.50	297.03	10.00	10.00	0.00
12,600.00	52.58	179.43	12,519.08	-374.98	-422.76	370.75	10.00	10.00	0.00
12,700.00	62.58	179.43	12,572.62	-459.28	-421.92	455.06	10.00	10.00	0.00
12,800.00	72.58	179.43	12,610.72	-551.60	-421.00	547.38	10.00	10.00	0.00
12,900.00	82.58	179.43	12,632.20	-649.13	-420.03	644.92	10.00	10.00	0.00
12,974.22	90.00	179.43	12,637.00	-723.14	-419.29	718.93	10.00	10.00	0.00
LP, Hold 90.00° Inc at 179.43° Azm									
13,000.00	90.00	179.43	12,637.00	-748.91	-419.03	744.71	0.00	0.00	0.00
13,100.00	90.00	179.43	12,637.00	-848.91	-418.03	844.71	0.00	0.00	0.00
13,200.00	90.00	179.43	12,637.00	-948.90	-417.03	944.71	0.00	0.00	0.00
13,300.00	90.00	179.43	12,637.00	-1,048.90	-416.04	1,044.71	0.00	0.00	0.00
13,400.00	90.00	179.43	12,637.00	-1,148.90	-415.04	1,144.71	0.00	0.00	0.00
13,500.00	90.00	179.43	12,637.00	-1,248.89	-414.04	1,244.71	0.00	0.00	0.00
13,600.00	90.00	179.43	12,637.00	-1,348.89	-413.04	1,344.71	0.00	0.00	0.00
13,700.00	90.00	179.43	12,637.00	-1,448.88	-412.04	1,444.71	0.00	0.00	0.00
13,800.00	90.00	179.43	12,637.00	-1,548.88	-411.05	1,544.71	0.00	0.00	0.00
13,900.00	90.00	179.43	12,637.00	-1,648.87	-410.05	1,644.71	0.00	0.00	0.00
14,000.00	90.00	179.43	12,637.00	-1,748.87	-409.05	1,744.71	0.00	0.00	0.00
14,100.00	90.00	179.43	12,637.00	-1,848.86	-408.05	1,844.71	0.00	0.00	0.00
14,200.00	90.00	179.43	12,637.00	-1,948.86	-407.05	1,944.71	0.00	0.00	0.00
14,300.00	90.00	179.43	12,637.00	-2,048.85	-406.05	2,044.71	0.00	0.00	0.00
14,400.00	90.00	179.43	12,637.00	-2,148.85	-405.06	2,144.71	0.00	0.00	0.00
14,500.00	90.00	179.43	12,637.00	-2,248.84	-404.06	2,244.71	0.00	0.00	0.00
14,600.00	90.00	179.43	12,637.00	-2,348.84	-403.06	2,344.71	0.00	0.00	0.00
14,700.00	90.00	179.43	12,637.00	-2,448.83	-402.06	2,444.71	0.00	0.00	0.00
14,800.00	90.00	179.43	12,637.00	-2,548.83	-401.06	2,544.71	0.00	0.00	0.00
14,900.00	90.00	179.43	12,637.00	-2,648.82	-400.07	2,644.71	0.00	0.00	0.00
15,000.00	90.00	179.43	12,637.00	-2,748.82	-399.07	2,744.71	0.00	0.00	0.00
15,100.00	90.00	179.43	12,637.00	-2,848.81	-398.07	2,844.71	0.00	0.00	0.00
15,200.00	90.00	179.43	12,637.00	-2,948.81	-397.07	2,944.71	0.00	0.00	0.00
15,300.00	90.00	179.43	12,637.00	-3,048.80	-396.07	3,044.71	0.00	0.00	0.00
15,400.00	90.00	179.43	12,637.00	-3,148.80	-395.07	3,144.71	0.00	0.00	0.00
15,500.00	90.00	179.43	12,637.00	-3,248.79	-394.08	3,244.71	0.00	0.00	0.00
15,600.00	90.00	179.43	12,637.00	-3,348.79	-393.08	3,344.71	0.00	0.00	0.00
15,700.00	90.00	179.43	12,637.00	-3,448.78	-392.08	3,444.71	0.00	0.00	0.00
15,800.00	90.00	179.43	12,637.00	-3,548.78	-391.08	3,544.71	0.00	0.00	0.00
15,900.00	90.00	179.43	12,637.00	-3,648.77	-390.08	3,644.71	0.00	0.00	0.00
16,000.00	90.00	179.43	12,637.00	-3,748.77	-389.08	3,744.71	0.00	0.00	0.00
16,100.00	90.00	179.43	12,637.00	-3,848.76	-388.09	3,844.71	0.00	0.00	0.00
16,200.00	90.00	179.43	12,637.00	-3,948.76	-387.09	3,944.71	0.00	0.00	0.00
16,300.00	90.00	179.43	12,637.00	-4,048.75	-386.09	4,044.71	0.00	0.00	0.00
16,400.00	90.00	179.43	12,637.00	-4,148.75	-385.09	4,144.71	0.00	0.00	0.00
16,500.00	90.00	179.43	12,637.00	-4,248.74	-384.09	4,244.71	0.00	0.00	0.00
16,600.00	90.00	179.43	12,637.00	-4,348.74	-383.10	4,344.71	0.00	0.00	0.00
16,700.00	90.00	179.43	12,637.00	-4,448.73	-382.10	4,444.71	0.00	0.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3200.50usft (TBD)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3200.50usft (TBD)
Site:	El Campeon Fed Com (NAD83)	North Reference:	Grid
Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 08-31-22		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,800.00	90.00	179.43	12,637.00	-4,548.73	-381.10	4,544.71	0.00	0.00	0.00
16,900.00	90.00	179.43	12,637.00	-4,648.72	-380.10	4,644.71	0.00	0.00	0.00
17,000.00	90.00	179.43	12,637.00	-4,748.72	-379.10	4,744.71	0.00	0.00	0.00
17,100.00	90.00	179.43	12,637.00	-4,848.71	-378.10	4,844.71	0.00	0.00	0.00
17,200.00	90.00	179.43	12,637.00	-4,948.71	-377.11	4,944.71	0.00	0.00	0.00
17,300.00	90.00	179.43	12,637.00	-5,048.70	-376.11	5,044.71	0.00	0.00	0.00
17,400.00	90.00	179.43	12,637.00	-5,148.70	-375.11	5,144.71	0.00	0.00	0.00
17,500.00	90.00	179.43	12,637.00	-5,248.69	-374.11	5,244.71	0.00	0.00	0.00
17,600.00	90.00	179.43	12,637.00	-5,348.69	-373.11	5,344.71	0.00	0.00	0.00
17,700.00	90.00	179.43	12,637.00	-5,448.68	-372.12	5,444.71	0.00	0.00	0.00
17,800.00	90.00	179.43	12,637.00	-5,548.68	-371.12	5,544.71	0.00	0.00	0.00
17,900.00	90.00	179.43	12,637.00	-5,648.67	-370.12	5,644.71	0.00	0.00	0.00
18,000.00	90.00	179.43	12,637.00	-5,748.67	-369.12	5,744.71	0.00	0.00	0.00
18,100.00	90.00	179.43	12,637.00	-5,848.66	-368.12	5,844.71	0.00	0.00	0.00
18,200.00	90.00	179.43	12,637.00	-5,948.66	-367.12	5,944.71	0.00	0.00	0.00
18,300.00	90.00	179.43	12,637.00	-6,048.65	-366.13	6,044.71	0.00	0.00	0.00
18,400.00	90.00	179.43	12,637.00	-6,148.65	-365.13	6,144.71	0.00	0.00	0.00
18,500.00	90.00	179.43	12,637.00	-6,248.64	-364.13	6,244.71	0.00	0.00	0.00
18,600.00	90.00	179.43	12,637.00	-6,348.64	-363.13	6,344.71	0.00	0.00	0.00
18,700.00	90.00	179.43	12,637.00	-6,448.63	-362.13	6,444.71	0.00	0.00	0.00
18,800.00	90.00	179.43	12,637.00	-6,548.63	-361.13	6,544.71	0.00	0.00	0.00
18,900.00	90.00	179.43	12,637.00	-6,648.62	-360.14	6,644.71	0.00	0.00	0.00
19,000.00	90.00	179.43	12,637.00	-6,748.62	-359.14	6,744.71	0.00	0.00	0.00
19,100.00	90.00	179.43	12,637.00	-6,848.61	-358.14	6,844.71	0.00	0.00	0.00
19,200.00	90.00	179.43	12,637.00	-6,948.61	-357.14	6,944.71	0.00	0.00	0.00
19,300.00	90.00	179.43	12,637.00	-7,048.60	-356.14	7,044.71	0.00	0.00	0.00
19,400.00	90.00	179.43	12,637.00	-7,148.60	-355.15	7,144.71	0.00	0.00	0.00
19,500.00	90.00	179.43	12,637.00	-7,248.59	-354.15	7,244.71	0.00	0.00	0.00
19,600.00	90.00	179.43	12,637.00	-7,348.59	-353.15	7,344.71	0.00	0.00	0.00
19,700.00	90.00	179.43	12,637.00	-7,448.58	-352.15	7,444.71	0.00	0.00	0.00
19,800.00	90.00	179.43	12,637.00	-7,548.58	-351.15	7,544.71	0.00	0.00	0.00
19,900.00	90.00	179.43	12,637.00	-7,648.57	-350.15	7,644.71	0.00	0.00	0.00
20,000.00	90.00	179.43	12,637.00	-7,748.57	-349.16	7,744.71	0.00	0.00	0.00
20,100.00	90.00	179.43	12,637.00	-7,848.56	-348.16	7,844.71	0.00	0.00	0.00
20,200.00	90.00	179.43	12,637.00	-7,948.56	-347.16	7,944.71	0.00	0.00	0.00
20,300.00	90.00	179.43	12,637.00	-8,048.55	-346.16	8,044.71	0.00	0.00	0.00
20,400.00	90.00	179.43	12,637.00	-8,148.55	-345.16	8,144.71	0.00	0.00	0.00
20,500.00	90.00	179.43	12,637.00	-8,248.54	-344.17	8,244.71	0.00	0.00	0.00
20,600.00	90.00	179.43	12,637.00	-8,348.54	-343.17	8,344.71	0.00	0.00	0.00
20,700.00	90.00	179.43	12,637.00	-8,448.53	-342.17	8,444.71	0.00	0.00	0.00
20,800.00	90.00	179.43	12,637.00	-8,548.53	-341.17	8,544.71	0.00	0.00	0.00
20,900.00	90.00	179.43	12,637.00	-8,648.52	-340.17	8,644.71	0.00	0.00	0.00
21,000.00	90.00	179.43	12,637.00	-8,748.52	-339.17	8,744.71	0.00	0.00	0.00
21,100.00	90.00	179.43	12,637.00	-8,848.51	-338.18	8,844.71	0.00	0.00	0.00
21,200.00	90.00	179.43	12,637.00	-8,948.51	-337.18	8,944.71	0.00	0.00	0.00
21,300.00	90.00	179.43	12,637.00	-9,048.50	-336.18	9,044.71	0.00	0.00	0.00
21,400.00	90.00	179.43	12,637.00	-9,148.50	-335.18	9,144.71	0.00	0.00	0.00
21,500.00	90.00	179.43	12,637.00	-9,248.49	-334.18	9,244.71	0.00	0.00	0.00
21,600.00	90.00	179.43	12,637.00	-9,348.49	-333.18	9,344.71	0.00	0.00	0.00
21,700.00	90.00	179.43	12,637.00	-9,448.48	-332.19	9,444.71	0.00	0.00	0.00
21,800.00	90.00	179.43	12,637.00	-9,548.48	-331.19	9,544.71	0.00	0.00	0.00
21,900.00	90.00	179.43	12,637.00	-9,648.47	-330.19	9,644.71	0.00	0.00	0.00
22,000.00	90.00	179.43	12,637.00	-9,748.47	-329.19	9,744.71	0.00	0.00	0.00
22,100.00	90.00	179.43	12,637.00	-9,848.46	-328.19	9,844.71	0.00	0.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3200.50usft (TBD)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3200.50usft (TBD)
Site:	El Campeon Fed Com (NAD83)	North Reference:	Grid
Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 08-31-22		

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)	
22,200.00	90.00	179.43	12,637.00	-9,948.46	-327.20	9,944.71	0.00	0.00	0.00	
22,300.00	90.00	179.43	12,637.00	-10,048.45	-326.20	10,044.71	0.00	0.00	0.00	
22,400.00	90.00	179.43	12,637.00	-10,148.45	-325.20	10,144.71	0.00	0.00	0.00	
22,500.00	90.00	179.43	12,637.00	-10,248.44	-324.20	10,244.71	0.00	0.00	0.00	
22,600.00	90.00	179.43	12,637.00	-10,348.44	-323.20	10,344.71	0.00	0.00	0.00	
22,700.00	90.00	179.43	12,637.00	-10,448.43	-322.20	10,444.71	0.00	0.00	0.00	
22,800.00	90.00	179.43	12,637.00	-10,548.43	-321.21	10,544.71	0.00	0.00	0.00	
22,900.00	90.00	179.43	12,637.00	-10,648.42	-320.21	10,644.71	0.00	0.00	0.00	
23,000.00	90.00	179.43	12,637.00	-10,748.42	-319.21	10,744.71	0.00	0.00	0.00	
23,100.00	90.00	179.43	12,637.00	-10,848.41	-318.21	10,844.71	0.00	0.00	0.00	
23,124.22	90.00	179.43	12,637.00	-10,872.63	-317.97	10,868.93	0.00	0.00	0.00	
TD at 23124.22										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
SLC - El Campeon 412H - hit/miss target - Shape - Point	0.00	0.00	12,637.00	-8,306.73	-343.74	365,114.79	832,963.24	32° 0' 1.053819 N 103° 23' 33.304600 W		- plan misses target center by 0.16usft at 20558.19usft MD (12637.00 TVD, -8306.73 N, -343.58 E)
BHL - El Campeon 412H - plan hits target center - Point	0.00	0.00	12,637.00	-10,872.63	-317.97	362,548.89	832,989.01	31° 59' 35.661809 N 103° 23' 33.264605 W		
FTP - El Campeon 412H - plan misses target center by 1.48usft at 12933.08usft MD (12635.52 TVD, -682.03 N, -419.70 E) - Point	0.00	0.00	12,637.00	-681.94	-419.70	372,739.58	832,887.28	32° 1' 16.508118 N 103° 23' 33.416006 W		
LTP - El Campeon 412H - plan hits target center - Point	0.00	0.00	12,637.00	-10,778.15	-318.91	362,643.37	832,988.07	31° 59' 36.596778 N 103° 23' 33.265976 W		

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
23,164.90		20" Casing	20	24	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment	
1,500.00	1,500.00	0.00	0.00	KOP, Begin 2.00°/100' Build	
1,629.90	1,629.86	-0.98	-2.78	Hold 2.60° Inc at 250.54° Azm	
11,444.32	11,434.18	-149.23	-422.23	Begin 2.00°/100' Drop	
11,574.22	11,564.04	-150.21	-425.01	Begin Vertical Hold	
12,074.22	12,064.04	-150.21	-425.01	KOP2, Begin 10.00°/100' Build	
12,974.22	12,637.00	-723.14	-419.29	LP, Hold 90.00° Inc at 179.43° Azm	
23,124.22	12,637.00	-10,872.63	-317.97	TD at 23124.22	



Titus Oil & Gas Production, LLC

Lea County, NM - (NAD83 NME)

El Campeon Fed Com (NAD83)

El Campeon Fed Com 412H

OH

Plan 1 08-31-22

Anticollision Report

31 August, 2022





Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Reference	Plan 1 08-31-22		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 50,000.00usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	8/31/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	23,124.22	Plan 1 08-31-22 (OH)	MWD+HRGM	OWSG MWD + HRGM

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Cattleman Fed Com 3						
Cattleman Fed Com 123H - OH / 69915 - Surveys (H&P 6	10,644.02	18,471.12	1,316.18	1,170.11	9.011	CC, ES, SF
Cattleman Fed Com 213H - OH / 69914 - Surveys (H&P 6	10,987.27	18,881.06	1,935.23	1,786.94	13.050	CC
Cattleman Fed Com 213H - OH / 69914 - Surveys (H&P 6	11,000.00	18,880.54	1,935.27	1,786.85	13.040	ES
Cattleman Fed Com 213H - OH / 69914 - Surveys (H&P 6	11,100.00	18,876.49	1,938.50	1,789.26	12.989	SF
Cattleman Fed Com 4						
Cattleman Fed Com 114H - OH / 69918 - Surveys (H&P 6	10,441.72	18,311.69	2,600.00	2,452.10	17.579	CC, ES
Cattleman Fed Com 114H - OH / 69918 - Surveys (H&P 6	10,600.00	18,310.86	2,604.82	2,456.15	17.521	SF
Cattleman Fed Com 204H - OH / 69917 - Surveys H&P 6	10,821.18	18,679.00	3,264.91	3,112.95	21.485	CC, ES
Cattleman Fed Com 204H - OH / 69917 - Surveys H&P 6	11,200.00	18,679.00	3,286.82	3,132.22	21.261	SF
Cattlemen Fed Com						
403H - OH / 68704 - Surveys (H&P 656)	12,613.37	20,786.97	1,966.21	1,803.84	12.110	CC
403H - OH / 68704 - Surveys (H&P 656)	12,650.00	20,818.00	1,966.41	1,803.57	12.075	ES
403H - OH / 68704 - Surveys (H&P 656)	12,950.00	20,991.00	1,976.73	1,810.41	11.885	SF
422H - OH / 68635 - Surveys (H&P 625)	12,819.61	20,972.00	630.36	465.38	3.821	CC, ES
422H - OH / 68635 - Surveys (H&P 625)	12,850.00	20,972.00	631.18	465.75	3.815	SF
432H - OH / 68636 - Surveys (H&P 625)	12,844.67	21,094.00	110.04	4.08	1.039	Level 3, CC, ES, SF
433H - OH / 68696 - Surveys (H&P 656)	12,827.51	21,235.00	1,373.69	1,208.74	8.328	CC, ES
433H - OH / 68696 - Surveys (H&P 656)	12,850.00	21,235.00	1,373.90	1,208.82	8.322	SF
512H - OH / 68637 - Surveys (H&P 625)	12,876.29	21,477.00	505.22	373.49	3.835	CC, ES, SF
513H - OH / 68705 - Surveys (H&P 656)	12,799.71	21,316.09	1,848.37	1,685.93	11.379	CC
513H - OH / 68705 - Surveys (H&P 656)	12,850.00	21,356.82	1,849.05	1,685.70	11.320	ES
513H - OH / 68705 - Surveys (H&P 656)	12,974.22	21,474.00	1,855.86	1,690.19	11.203	SF
Cattlemen Fed Com - Deep						
Cattleman Fed Com 404H - OH / 67732 - Surveys (H&P 4	12,759.00	20,964.00	3,266.13	3,103.41	20.072	CC
Cattleman Fed Com 404H - OH / 67732 - Surveys (H&P 4	12,800.00	20,964.00	3,266.35	3,103.30	20.033	ES
Cattleman Fed Com 404H - OH / 67732 - Surveys (H&P 4	13,100.00	20,964.00	3,281.43	3,116.58	19.905	SF
Cattleman Fed Com 434H - OH / 67733 - Surveys (H&P 4	12,723.98	21,008.17	2,646.29	2,487.72	16.688	CC
Cattleman Fed Com 434H - OH / 67733 - Surveys (H&P 4	12,800.00	21,067.00	2,646.91	2,487.22	16.576	ES
Cattleman Fed Com 434H - OH / 67733 - Surveys (H&P 4	12,974.22	21,131.00	2,652.62	2,491.27	16.440	SF
Cattleman Fed Com 514H - OH / 67734 - Surveys (H&P 4	12,867.46	21,341.00	3,149.02	2,992.53	20.123	CC, ES
Cattleman Fed Com 514H - OH / 67734 - Surveys (H&P 4	13,100.00	21,341.00	3,161.96	3,003.88	20.001	SF

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
El Campeon Fed Com						
214H - OH / 68221 - Surveys (H&P 474)	9,163.41	9,278.10	2,305.35	2,245.85	38.747	CC
214H - OH / 68221 - Surveys (H&P 474)	9,200.00	9,307.61	2,305.42	2,245.71	38.606	ES
214H - OH / 68221 - Surveys (H&P 474)	20,700.00	18,808.00	2,950.83	2,742.56	14.168	SF
404H - OH / 68222 - Surveys (H&P 474)	274.39	272.40	2,612.14	2,609.07	849.722	CC
404H - OH / 68222 - Surveys (H&P 474)	1,200.00	1,185.32	2,616.45	2,608.20	317.234	ES
404H - OH / 68222 - Surveys (H&P 474)	20,800.00	20,525.00	3,279.23	3,025.11	12.905	SF
434H - OH / 68223 - Surveys (H&P 474)	8,302.46	8,426.00	2,213.69	2,159.54	40.884	CC, ES
434H - OH / 68223 - Surveys (H&P 474)	20,700.00	20,912.00	2,645.38	2,392.27	10.452	SF
514H - OH / 68224 - Surveys (H&P 474)	1,169.31	1,167.35	2,577.81	2,569.68	317.296	CC
514H - OH / 68224 - Surveys (H&P 474)	1,200.00	1,192.15	2,577.84	2,569.57	311.763	ES
514H - OH / 68224 - Surveys (H&P 474)	20,800.00	20,918.00	2,978.08	2,723.60	11.703	SF
El Campeon Fed Com (NAD83)						
El Campeon Fed Com 413H - OH - Plan 1 08-31-22	1,501.40	1,502.96	1,230.15	1,220.58	128.509	CC
El Campeon Fed Com 413H - OH - Plan 1 08-31-22	22,702.97	22,199.47	1,317.43	1,011.61	4.308	ES, SF
El Campeon Fed Com 432H - OH - Plan 1 08-31-22	1,500.00	1,500.00	60.01	50.45	6.274	CC, ES
El Campeon Fed Com 432H - OH - Plan 1 08-31-22	22,914.21	22,752.88	665.58	355.31	2.145	SF
El Campeon Fed Com 433H - OH - Plan 1 08-31-22	1,416.33	1,417.33	1,290.22	1,280.95	139.125	CC
El Campeon Fed Com 433H - OH - Plan 1 08-31-22	1,500.00	1,500.00	1,290.22	1,280.66	134.892	ES
El Campeon Fed Com 433H - OH - Plan 1 08-31-22	22,600.00	22,125.24	1,981.75	1,681.05	6.590	SF
El Campeon Fed Com 512H - OH - Plan 1 08-31-22	1,500.00	1,500.00	30.01	20.45	3.138	CC, ES
El Campeon Fed Com 512H - OH - Plan 1 08-31-22	23,100.00	23,247.14	513.24	294.60	2.347	SF
El Campeon Fed Com 513H - OH - Plan 1 08-31-22	1,500.00	1,500.00	1,260.24	1,250.68	131.757	CC, ES
El Campeon Fed Com 513H - OH - Plan 1 08-31-22	22,600.00	22,728.24	1,813.53	1,515.27	6.080	SF

Offset Design: Cattleman Fed Com 3 - Cattleman Fed Com 123H - OH / 69915 - Surveys (H&P 616)													Offset Site Error: 0.00 usft
Survey Program: 206-MWD+HRGM													Offset Well Error: 1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	56.34	6.34	1.00	1.07	8.651	7,690.73	1,170.15	7,779.25				
100.00	100.00	169.00	119.00	1.08	1.50	8.649	7,690.60	1,169.83	7,779.08	7,776.50	2.58	3,016.076	
200.00	200.00	271.74	221.74	1.60	2.07	8.646	7,690.38	1,169.36	7,778.80	7,775.14	3.66	2,127.424	
300.00	300.00	368.48	318.48	2.01	2.62	8.644	7,690.17	1,169.02	7,778.54	7,773.94	4.60	1,690.353	
400.00	400.00	463.68	413.68	2.35	3.10	8.641	7,690.03	1,168.66	7,778.33	7,772.92	5.41	1,436.967	
500.00	500.00	558.15	508.15	2.65	3.39	8.638	7,689.95	1,168.25	7,778.19	7,772.21	5.98	1,300.853	
600.00	600.00	660.00	609.99	2.93	3.64	8.635	7,689.90	1,167.73	7,778.06	7,771.60	6.46	1,204.037	
666.19	666.19	716.20	666.19	3.09	3.76	8.632	7,689.91	1,167.41	7,778.01	7,771.28	6.73	1,155.918	
700.00	700.00	750.00	699.99	3.18	3.84	8.631	7,689.95	1,167.20	7,778.03	7,771.15	6.88	1,131.177	
800.00	800.00	848.20	798.19	3.41	4.06	8.626	7,690.09	1,166.64	7,778.08	7,770.80	7.28	1,068.266	
900.00	900.00	947.85	897.84	3.64	4.28	8.621	7,690.23	1,165.99	7,778.12	7,770.45	7.67	1,013.908	
1,000.00	1,000.00	1,056.56	1,006.55	3.85	4.52	8.617	7,690.31	1,165.33	7,778.10	7,770.04	8.06	964.588	
1,100.00	1,100.00	1,156.00	1,105.99	4.05	4.71	8.613	7,690.26	1,164.81	7,777.98	7,769.58	8.39	926.661	
1,200.00	1,200.00	1,278.98	1,228.97	4.24	5.06	8.609	7,690.06	1,164.31	7,777.76	7,768.86	8.89	874.686	
1,300.00	1,300.00	1,394.00	1,343.98	4.43	5.33	8.606	7,689.49	1,163.72	7,777.18	7,767.87	9.31	835.140	
1,400.00	1,400.00	1,488.00	1,437.98	4.61	5.52	8.603	7,689.04	1,163.34	7,776.64	7,766.98	9.66	805.260	
1,500.00	1,500.00	1,566.61	1,516.59	4.78	5.63	8.603	7,688.84	1,163.26	7,776.36	7,766.41	9.95	781.621	
1,512.18	1,512.18	1,577.76	1,527.74	4.81	5.65	118.068	7,688.82	1,163.27	7,776.34	7,766.36	9.98	779.052	
1,600.00	1,599.98	1,691.71	1,641.68	5.03	5.78	118.075	7,688.39	1,163.37	7,776.84	7,766.56	10.28	756.479	
1,629.90	1,629.86	1,710.07	1,660.05	5.06	5.81	118.073	7,688.32	1,163.37	7,777.28	7,766.96	10.33	753.094	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 3 - Cattleman Fed Com 123H - OH / 69915 - Surveys (H&P 616)												Offset Site Error:	0.00 usft
Survey Program: 206-MWD+HRGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Offset												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
1,700.00	1,699.88	1,772.00	1,721.98	5.14	5.91	118.091	7,688.14	1,163.31	7,778.57	7,768.08	10.49	741.399	
1,800.00	1,799.78	1,863.81	1,813.79	5.31	6.05	118.117	7,687.98	1,163.27	7,780.52	7,769.74	10.77	722.279	
1,900.00	1,899.68	1,967.08	1,917.06	5.50	6.20	118.147	7,687.78	1,163.15	7,782.45	7,771.37	11.08	702.502	
2,000.00	1,999.58	2,059.21	2,009.18	5.70	6.37	118.173	7,687.65	1,162.97	7,784.42	7,773.04	11.38	684.078	
2,100.00	2,099.47	2,167.90	2,117.88	5.91	6.48	118.207	7,687.36	1,163.22	7,786.33	7,774.66	11.68	666.918	
2,200.00	2,199.37	2,243.83	2,193.80	6.14	6.51	118.233	7,687.22	1,163.70	7,788.40	7,776.48	11.92	653.591	
2,300.00	2,299.27	2,338.00	2,287.97	6.37	6.53	118.266	7,687.17	1,164.42	7,790.61	7,778.45	12.16	640.562	
2,400.00	2,399.16	2,414.99	2,364.96	6.61	6.62	118.289	7,687.36	1,164.44	7,793.01	7,780.61	12.40	628.317	
2,500.00	2,499.06	2,432.00	2,381.97	6.86	6.63	118.293	7,687.47	1,164.29	7,796.05	7,783.47	12.58	619.638	
2,600.00	2,598.96	2,482.23	2,432.18	7.12	6.77	118.298	7,688.32	1,163.17	7,799.78	7,786.91	12.87	606.158	
2,700.00	2,698.86	2,526.00	2,475.88	7.38	6.91	118.295	7,689.88	1,161.24	7,804.58	7,791.44	13.14	593.937	
2,800.00	2,798.75	2,526.00	2,475.88	7.65	6.91	118.295	7,689.88	1,161.24	7,810.22	7,796.92	13.30	587.192	
2,900.00	2,898.65	2,579.48	2,529.20	7.92	7.05	118.287	7,692.57	1,158.33	7,816.65	7,803.12	13.53	577.819	
3,000.00	2,998.55	18,704.42	10,682.32	8.20	117.88	-151.727	-341.73	929.35	7,753.98	7,676.60	77.38	100.211	
3,100.00	3,098.44	18,701.79	10,682.43	8.48	117.84	-151.839	-339.10	929.35	7,655.49	7,577.95	77.54	98.730	
3,200.00	3,198.34	18,699.15	10,682.54	8.77	117.81	-151.951	-336.46	929.35	7,557.04	7,479.33	77.71	97.249	
3,300.00	3,298.24	18,739.41	10,680.79	9.05	118.37	-150.248	-376.68	929.26	7,458.67	7,380.46	78.21	95.372	
3,400.00	3,398.14	18,730.10	10,681.22	9.35	118.24	-150.640	-367.39	929.31	7,360.32	7,281.98	78.33	93.960	
3,500.00	3,498.03	18,721.22	10,681.63	9.64	118.12	-151.016	-358.51	929.34	7,262.00	7,183.53	78.47	92.544	
3,600.00	3,597.93	18,712.72	10,682.01	9.94	118.00	-151.376	-350.02	929.38	7,163.73	7,085.12	78.62	91.124	
3,700.00	3,697.83	18,704.59	10,682.37	10.23	117.88	-151.720	-341.90	929.40	7,065.51	6,986.74	78.77	89.699	
3,800.00	3,797.72	18,696.81	10,682.71	10.53	117.77	-152.051	-334.13	929.42	6,967.33	6,888.40	78.93	88.272	
3,900.00	3,897.62	18,689.35	10,683.03	10.84	117.67	-152.369	-326.67	929.44	6,869.20	6,790.10	79.10	86.843	
4,000.00	3,997.52	18,682.19	10,683.33	11.14	117.57	-152.674	-319.52	929.45	6,771.13	6,691.85	79.28	85.411	
4,100.00	4,097.42	18,675.31	10,683.62	11.45	117.47	-152.967	-312.65	929.45	6,673.11	6,593.64	79.46	83.977	
4,200.00	4,197.31	18,668.70	10,683.89	11.75	117.38	-153.250	-306.04	929.46	6,575.14	6,495.48	79.66	82.542	
4,300.00	4,297.21	18,662.34	10,684.15	12.06	117.29	-153.521	-299.69	929.46	6,477.24	6,397.38	79.86	81.107	
4,400.00	4,397.11	18,656.23	10,684.40	12.37	117.20	-153.783	-293.58	929.45	6,379.39	6,299.32	80.07	79.671	
4,500.00	4,497.01	18,650.33	10,684.63	12.68	117.12	-154.036	-287.69	929.45	6,281.62	6,201.32	80.29	78.234	
4,600.00	4,596.90	18,644.65	10,684.85	13.00	117.04	-154.280	-282.01	929.44	6,183.91	6,103.39	80.52	76.798	
4,700.00	4,696.80	18,639.17	10,685.07	13.31	116.96	-154.515	-276.54	929.43	6,086.27	6,005.51	80.76	75.363	
4,800.00	4,796.70	18,633.89	10,685.27	13.62	116.89	-154.742	-271.25	929.42	5,988.71	5,907.71	81.01	73.928	
4,900.00	4,896.59	18,628.78	10,685.46	13.94	116.82	-154.962	-266.15	929.41	5,891.23	5,809.97	81.26	72.494	
5,000.00	4,996.49	18,628.00	10,685.49	14.25	116.80	-154.996	-265.37	929.40	5,793.84	5,712.27	81.56	71.034	
5,100.00	5,096.39	18,624.09	10,685.64	14.57	116.75	-155.164	-261.47	929.39	5,696.53	5,614.68	81.85	69.599	
5,200.00	5,196.29	18,621.93	10,685.72	14.89	116.72	-155.257	-259.31	929.38	5,599.32	5,517.16	82.15	68.156	
5,300.00	5,296.18	18,619.75	10,685.81	15.20	116.69	-155.351	-257.13	929.37	5,502.20	5,419.73	82.47	66.717	
5,400.00	5,396.08	18,617.54	10,685.89	15.52	116.66	-155.446	-254.92	929.36	5,405.19	5,322.40	82.80	65.282	
5,500.00	5,495.98	18,615.29	10,685.98	15.84	116.63	-155.543	-252.68	929.35	5,308.29	5,225.16	83.13	63.852	
5,600.00	5,595.87	18,613.02	10,686.06	16.16	116.59	-155.641	-250.41	929.34	5,211.51	5,128.03	83.48	62.426	
5,700.00	5,695.77	18,610.72	10,686.15	16.48	116.56	-155.740	-248.11	929.32	5,114.85	5,031.01	83.84	61.006	
5,800.00	5,795.67	18,608.39	10,686.24	16.80	116.53	-155.840	-245.78	929.30	5,018.32	4,934.11	84.21	59.590	
5,900.00	5,895.57	18,606.03	10,686.33	17.12	116.50	-155.942	-243.42	929.29	4,921.93	4,837.33	84.60	58.179	
6,000.00	5,995.46	18,603.63	10,686.43	17.44	116.46	-156.046	-241.03	929.27	4,825.68	4,740.68	85.00	56.774	
6,100.00	6,095.36	18,601.21	10,686.52	17.76	116.43	-156.150	-238.60	929.24	4,729.59	4,644.17	85.41	55.374	
6,200.00	6,195.26	18,598.75	10,686.62	18.09	116.39	-156.256	-236.15	929.22	4,633.66	4,547.82	85.84	53.980	
6,300.00	6,295.16	18,596.26	10,686.72	18.41	116.36	-156.364	-233.65	929.20	4,537.90	4,451.62	86.29	52.591	
6,400.00	6,395.05	18,593.73	10,686.82	18.73	116.32	-156.473	-231.13	929.17	4,442.33	4,355.58	86.75	51.209	
6,500.00	6,494.95	18,591.17	10,686.92	19.06	116.29	-156.584	-228.57	929.14	4,346.96	4,259.73	87.23	49.833	
6,600.00	6,594.85	18,588.57	10,687.02	19.38	116.25	-156.696	-225.97	929.11	4,251.80	4,164.07	87.73	48.464	
6,700.00	6,694.74	18,585.94	10,687.13	19.70	116.21	-156.810	-223.34	929.08	4,156.87	4,068.61	88.25	47.102	
6,800.00	6,794.64	18,583.26	10,687.24	20.03	116.17	-156.926	-220.67	929.04	4,062.17	3,973.38	88.80	45.746	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 3 - Cattleman Fed Com 123H - OH / 69915 - Surveys (H&P 616)												Offset Site Error:	0.00 usft
Survey Program: 206-MWD+HRGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Offset												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
6,900.00	6,894.54	18,580.56	10,687.35	20.35	116.14	-157.043	-217.97	929.01	3,967.74	3,878.37	89.37	44.398	
7,000.00	6,994.44	18,577.81	10,687.46	20.68	116.10	-157.162	-215.22	928.97	3,873.58	3,783.62	89.96	43.058	
7,100.00	7,094.33	18,575.02	10,687.57	21.00	116.06	-157.282	-212.44	928.93	3,779.72	3,689.14	90.58	41.726	
7,200.00	7,194.23	18,572.19	10,687.69	21.33	116.02	-157.405	-209.61	928.88	3,686.19	3,594.95	91.24	40.402	
7,300.00	7,294.13	18,569.32	10,687.80	21.65	115.98	-157.529	-206.74	928.84	3,592.99	3,501.07	91.92	39.087	
7,400.00	7,394.02	18,566.41	10,687.92	21.98	115.94	-157.655	-203.83	928.79	3,500.18	3,407.54	92.64	37.782	
7,500.00	7,493.92	18,563.45	10,688.04	22.30	115.89	-157.783	-200.88	928.74	3,407.76	3,314.36	93.40	36.486	
7,600.00	7,593.82	18,560.45	10,688.17	22.63	115.85	-157.913	-197.88	928.68	3,315.79	3,221.59	94.20	35.201	
7,700.00	7,693.72	18,557.41	10,688.30	22.95	115.81	-158.045	-194.84	928.62	3,224.29	3,129.25	95.04	33.926	
7,800.00	7,793.61	18,551.43	10,688.93	23.28	115.16	-160.041	-148.90	927.59	3,133.28	3,037.73	95.55	32.794	
7,900.00	7,893.51	18,510.00	10,689.97	23.61	115.14	-160.104	-147.47	927.55	3,042.83	2,946.33	96.50	31.532	
8,000.00	7,993.41	18,508.56	10,690.01	23.93	115.12	-160.166	-146.04	927.52	2,952.99	2,855.49	97.51	30.285	
8,100.00	8,093.31	18,507.13	10,690.05	24.26	115.10	-160.228	-144.61	927.49	2,863.83	2,765.26	98.58	29.051	
8,200.00	8,193.20	18,505.70	10,690.09	24.59	115.08	-160.290	-143.18	927.45	2,775.41	2,675.70	99.71	27.834	
8,300.00	8,293.10	18,545.75	10,688.76	24.92	115.65	-158.551	-183.19	928.40	2,687.95	2,586.65	101.31	26.533	
8,400.00	8,393.00	18,535.88	10,689.21	25.24	115.51	-158.979	-173.33	928.16	2,601.26	2,498.75	102.52	25.374	
8,500.00	8,492.89	18,527.69	10,689.55	25.57	115.39	-159.334	-165.16	927.95	2,515.55	2,411.73	103.82	24.229	
8,600.00	8,592.79	18,520.80	10,689.83	25.90	115.29	-159.634	-158.28	927.79	2,430.92	2,325.69	105.23	23.101	
8,700.00	8,692.69	18,514.92	10,690.06	26.23	115.21	-159.889	-152.40	927.64	2,347.50	2,240.75	106.74	21.992	
8,800.00	8,792.59	18,509.84	10,690.24	26.55	115.14	-160.110	-147.32	927.52	2,265.41	2,157.04	108.36	20.906	
8,900.00	8,892.48	18,505.40	10,690.40	26.88	115.08	-160.303	-142.89	927.41	2,184.80	2,074.70	110.10	19.844	
9,000.00	8,992.38	18,501.50	10,690.53	27.21	115.02	-160.473	-138.99	927.32	2,105.86	1,993.91	111.95	18.810	
9,100.00	9,092.28	18,498.04	10,690.64	27.54	114.97	-160.624	-135.53	927.24	2,028.78	1,914.84	113.93	17.807	
9,200.00	9,192.17	18,494.95	10,690.74	27.87	114.93	-160.758	-132.45	927.17	1,953.76	1,837.73	116.03	16.838	
9,300.00	9,292.07	18,492.17	10,690.82	28.19	114.89	-160.879	-129.67	927.10	1,881.08	1,762.82	118.26	15.907	
9,400.00	9,391.97	18,489.66	10,690.90	28.52	114.86	-160.988	-127.16	927.04	1,810.99	1,690.39	120.60	15.017	
9,500.00	9,491.87	18,487.38	10,690.96	28.85	114.82	-161.087	-124.89	926.99	1,743.83	1,620.77	123.05	14.171	
9,600.00	9,591.76	18,485.31	10,691.02	29.18	114.79	-161.177	-122.81	926.94	1,679.93	1,554.33	125.60	13.375	
9,700.00	9,691.66	18,483.41	10,691.07	29.51	114.77	-161.260	-120.91	926.90	1,619.69	1,491.47	128.22	12.632	
9,800.00	9,791.56	18,481.66	10,691.12	29.84	114.74	-161.336	-119.17	926.86	1,563.52	1,432.65	130.87	11.947	
9,900.00	9,891.45	18,480.05	10,691.17	30.17	114.72	-161.406	-117.56	926.82	1,511.89	1,378.38	133.51	11.324	
10,000.00	9,991.35	18,478.56	10,691.20	30.50	114.70	-161.471	-116.07	926.79	1,465.28	1,329.19	136.09	10.767	
10,100.00	10,091.25	18,477.18	10,691.24	30.83	114.68	-161.531	-114.69	926.76	1,424.17	1,285.64	138.53	10.281	
10,200.00	10,191.15	18,475.89	10,691.27	31.15	114.66	-161.587	-113.40	926.73	1,389.05	1,248.29	140.76	9.869	
10,300.00	10,291.04	18,474.69	10,691.30	31.48	114.64	-161.640	-112.20	926.70	1,360.39	1,217.70	142.69	9.534	
10,400.00	10,390.94	18,473.57	10,691.33	31.81	114.63	-161.688	-111.08	926.67	1,338.60	1,194.36	144.24	9.280	
10,500.00	10,490.84	18,472.52	10,691.36	32.14	114.61	-161.734	-110.03	926.65	1,324.03	1,178.68	145.35	9.109	
10,600.00	10,590.74	18,471.53	10,691.38	32.47	114.60	-161.777	-109.05	926.63	1,316.91	1,170.95	145.96	9.022	
10,644.02	10,634.71	18,471.12	10,691.39	32.62	114.59	-161.795	-108.63	926.62	1,316.18	1,170.11	146.07	9.011	CC, ES, SF
10,700.00	10,690.63	18,470.61	10,691.40	32.80	114.59	-161.817	-108.12	926.61	1,317.36	1,171.31	146.06	9.019	
10,800.00	10,790.53	18,469.73	10,691.42	33.13	114.57	-161.855	-107.25	926.59	1,325.38	1,179.74	145.64	9.100	
10,900.00	10,890.43	18,468.91	10,691.44	33.46	114.56	-161.891	-106.42	926.57	1,340.83	1,196.09	144.74	9.263	
11,000.00	10,990.32	18,468.13	10,691.46	33.79	114.55	-161.925	-105.64	926.55	1,363.46	1,220.03	143.43	9.506	
11,100.00	11,090.22	18,467.39	10,691.48	34.12	114.54	-161.957	-104.91	926.53	1,392.92	1,251.14	141.77	9.825	
11,200.00	11,190.12	18,466.69	10,691.49	34.45	114.53	-161.988	-104.21	926.52	1,428.78	1,288.92	139.85	10.216	
11,300.00	11,290.02	18,466.02	10,691.51	34.78	114.52	-162.017	-103.54	926.50	1,470.57	1,332.81	137.76	10.675	
11,400.00	11,389.91	18,465.39	10,691.52	35.11	114.51	-162.044	-102.91	926.49	1,517.82	1,382.24	135.58	11.195	
11,444.32	11,434.18	18,465.12	10,691.53	35.25	114.51	-162.056	-102.64	926.48	1,540.37	1,405.78	134.59	11.445	
11,500.00	11,489.83	18,464.66	10,691.54	35.42	114.50	-162.286	-102.18	926.47	1,569.59	1,436.25	133.34	11.772	
11,574.22	11,564.04	18,463.66	10,691.56	35.53	114.49	87.922	-101.18	926.45	1,609.37	1,477.81	131.56	12.233	
11,600.00	11,589.82	18,463.24	10,691.57	35.53	114.48	87.905	-100.76	926.44	1,623.49	1,492.57	130.92	12.401	
11,700.00	11,689.82	18,461.67	10,691.60	35.54	114.46	87.838	-99.19	926.40	1,680.88	1,552.38	128.50	13.081	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 3 - Cattleman Fed Com 123H - OH / 69915 - Surveys (H&P 616)													Offset Site Error:	0.00 usft
Survey Program:		206-MWD+HRGM						Rule Assigned:		Offset Well Error:		1.00 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
11,800.00	11,789.82	18,460.17	10,691.63	35.56	114.44	87.774	-97.69	926.37	1,742.13	1,615.92	126.20	13.804		
11,900.00	11,889.82	18,458.73	10,691.66	35.58	114.42	87.714	-96.25	926.34	1,806.83	1,682.78	124.05	14.566		
12,000.00	11,989.82	18,457.36	10,691.69	35.60	114.40	87.655	-94.88	926.31	1,874.64	1,752.59	122.05	15.360		
12,074.22	12,064.04	18,456.37	10,691.71	35.61	114.39	87.614	-93.90	926.29	1,926.78	1,806.11	120.67	15.968		
12,100.00	12,089.81	18,456.43	10,691.70	35.62	114.39	-89.170	-93.95	926.29	1,945.23	1,825.02	120.21	16.182		
12,150.00	12,139.60	18,458.76	10,691.66	35.69	114.42	-83.840	-96.28	926.34	1,981.42	1,862.03	119.38	16.597		
12,200.00	12,188.82	18,463.91	10,691.55	35.77	114.49	-78.372	-101.43	926.45	2,017.87	1,899.23	118.63	17.009		
12,250.00	12,237.08	18,471.77	10,691.37	35.86	114.60	-72.930	-109.29	926.63	2,054.26	1,936.31	117.95	17.416		
12,300.00	12,284.02	18,482.20	10,691.11	35.96	114.75	-67.671	-119.71	926.87	2,090.29	1,972.94	117.35	17.813		
12,350.00	12,329.30	18,495.07	10,690.73	36.06	114.93	-62.725	-132.57	927.17	2,125.64	2,008.82	116.82	18.196		
12,400.00	12,372.55	18,510.21	10,690.23	36.17	115.14	-58.183	-147.70	927.53	2,160.03	2,043.66	116.36	18.563		
12,450.00	12,413.46	18,534.00	10,689.29	36.28	115.48	-53.947	-171.46	928.11	2,193.17	2,077.13	116.04	18.900		
12,500.00	12,451.70	18,568.75	10,687.83	36.40	115.97	-50.053	-206.17	928.83	2,224.66	2,108.79	115.86	19.201		
12,550.00	12,487.00	18,627.23	10,685.52	36.51	116.79	-46.362	-264.60	929.40	2,253.86	2,137.93	115.93	19.441		
12,600.00	12,519.08	18,662.93	10,684.13	36.63	117.30	-43.612	-300.28	929.46	2,280.60	2,164.73	115.86	19.684		
12,650.00	12,547.69	18,700.77	10,682.54	36.75	117.83	-41.292	-338.08	929.41	2,304.81	2,188.94	115.87	19.892		
12,700.00	12,572.62	18,741.76	10,680.70	36.86	118.41	-39.353	-379.03	929.26	2,326.27	2,210.31	115.95	20.062		
12,750.00	12,593.68	18,786.08	10,678.69	36.99	119.03	-37.764	-423.31	929.07	2,344.74	2,228.61	116.12	20.192		
12,800.00	12,610.72	18,832.25	10,676.59	37.11	119.68	-36.507	-469.43	928.88	2,360.04	2,243.67	116.37	20.281		
12,850.00	12,623.59	18,879.91	10,674.43	37.23	120.35	-35.557	-517.04	928.68	2,372.01	2,255.33	116.68	20.329		
12,900.00	12,632.20	18,912.00	10,672.97	37.36	120.81	-34.939	-549.10	928.55	2,380.59	2,263.67	116.93	20.360		
12,950.00	12,636.49	18,912.00	10,672.97	37.49	120.81	-34.603	-549.10	928.55	2,386.45	2,269.52	116.93	20.409		
12,974.22	12,637.00	18,912.00	10,672.97	37.55	120.81	-34.493	-549.10	928.55	2,388.38	2,271.47	116.90	20.430		
13,000.00	12,637.00	18,912.00	10,672.97	37.62	120.81	-34.493	-549.10	928.55	2,390.25	2,273.39	116.86	20.454		
13,100.00	12,637.00	18,912.00	10,672.97	37.92	120.81	-34.493	-549.10	928.55	2,400.12	2,283.52	116.60	20.584		
13,200.00	12,637.00	18,912.00	10,672.97	38.28	120.81	-34.493	-549.10	928.55	2,414.09	2,297.88	116.21	20.774		
13,300.00	12,637.00	18,912.00	10,672.97	38.69	120.81	-34.493	-549.10	928.55	2,432.10	2,316.41	115.69	21.023		
13,400.00	12,637.00	18,912.00	10,672.97	39.15	120.81	-34.493	-549.10	928.55	2,454.05	2,339.01	115.04	21.332		
13,500.00	12,637.00	18,912.00	10,672.97	39.66	120.81	-34.493	-549.10	928.55	2,479.85	2,365.56	114.29	21.699		
13,600.00	12,637.00	18,912.00	10,672.97	40.23	120.81	-34.493	-549.10	928.55	2,509.37	2,395.94	113.43	22.123		
13,700.00	12,637.00	18,912.00	10,672.97	40.84	120.81	-34.493	-549.10	928.55	2,542.48	2,429.99	112.48	22.603		
13,800.00	12,637.00	18,912.00	10,672.97	41.49	120.81	-34.493	-549.10	928.55	2,579.04	2,467.58	111.46	23.138		
13,900.00	12,637.00	18,912.00	10,672.97	42.20	120.81	-34.493	-549.10	928.55	2,618.92	2,508.54	110.38	23.727		
14,000.00	12,637.00	18,912.00	10,672.97	42.94	120.81	-34.493	-549.10	928.55	2,661.96	2,552.72	109.24	24.368		
14,100.00	12,637.00	18,912.00	10,672.97	43.73	120.81	-34.493	-549.10	928.55	2,708.00	2,599.94	108.06	25.060		
14,200.00	12,637.00	18,912.00	10,672.97	44.55	120.81	-34.493	-549.10	928.55	2,756.91	2,650.06	106.85	25.801		
14,300.00	12,637.00	18,912.00	10,672.97	45.41	120.81	-34.493	-549.10	928.55	2,808.53	2,702.90	105.62	26.590		
14,400.00	12,637.00	18,912.00	10,672.97	46.30	120.81	-34.493	-549.10	928.55	2,862.71	2,758.33	104.38	27.426		
14,500.00	12,637.00	18,912.00	10,672.97	47.23	120.81	-34.493	-549.10	928.55	2,919.31	2,816.17	103.13	28.306		
14,600.00	12,637.00	18,912.00	10,672.97	48.18	120.81	-34.493	-549.10	928.55	2,978.19	2,876.30	101.89	29.229		
14,700.00	12,637.00	18,912.00	10,672.97	49.16	120.81	-34.493	-549.10	928.55	3,039.23	2,938.57	100.66	30.194		
14,800.00	12,637.00	18,912.00	10,672.97	50.17	120.81	-34.493	-549.10	928.55	3,102.29	3,002.85	99.44	31.198		
14,900.00	12,637.00	18,912.00	10,672.97	51.19	120.81	-34.493	-549.10	928.55	3,167.25	3,069.01	98.24	32.241		
15,000.00	12,637.00	18,912.00	10,672.97	52.25	120.81	-34.493	-549.10	928.55	3,233.99	3,136.94	97.06	33.320		
15,100.00	12,637.00	18,912.00	10,672.97	53.32	120.81	-34.493	-549.10	928.55	3,302.42	3,206.52	95.91	34.434		
15,200.00	12,637.00	18,912.00	10,672.97	54.41	120.81	-34.493	-549.10	928.55	3,372.43	3,277.65	94.78	35.581		
15,300.00	12,637.00	18,912.00	10,672.97	55.51	120.81	-34.493	-549.10	928.55	3,443.91	3,350.23	93.69	36.760		
15,400.00	12,637.00	18,912.00	10,672.97	56.64	120.81	-34.493	-549.10	928.55	3,516.79	3,424.17	92.62	37.969		
15,500.00	12,637.00	18,912.00	10,672.97	57.78	120.81	-34.493	-549.10	928.55	3,590.97	3,499.38	91.59	39.207		
15,600.00	12,637.00	18,912.00	10,672.97	58.93	120.81	-34.493	-549.10	928.55	3,666.38	3,575.79	90.59	40.473		
15,700.00	12,637.00	18,912.00	10,672.97	60.10	120.81	-34.493	-549.10	928.55	3,742.94	3,653.32	89.62	41.764		
15,800.00	12,637.00	18,912.00	10,672.97	61.28	120.81	-34.493	-549.10	928.55	3,820.59	3,731.90	88.69	43.079		

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 3 - Cattleman Fed Com 123H - OH / 69915 - Surveys (H&P 616)												Offset Site Error:	0.00 usft
Survey Program: 206-MWD+HRGM												Offset Well Error:	1.00 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,900.00	12,637.00	18,912.00	10,672.97	62.47	120.81	-34.493	-549.10	928.55	3,899.25	3,811.47	87.79	44.417	
16,000.00	12,637.00	18,912.00	10,672.97	63.67	120.81	-34.493	-549.10	928.55	3,978.87	3,891.96	86.92	45.777	
16,100.00	12,637.00	18,912.00	10,672.97	64.88	120.81	-34.493	-549.10	928.55	4,059.40	3,973.32	86.08	47.157	
16,200.00	12,637.00	18,912.00	10,672.97	66.11	120.81	-34.493	-549.10	928.55	4,140.77	4,055.49	85.28	48.557	
16,300.00	12,637.00	18,912.00	10,672.97	67.34	120.81	-34.493	-549.10	928.55	4,222.94	4,138.44	84.50	49.974	
16,400.00	12,637.00	18,912.00	10,672.97	68.58	120.81	-34.493	-549.10	928.55	4,305.87	4,222.11	83.76	51.408	
16,500.00	12,637.00	18,912.00	10,672.97	69.82	120.81	-34.493	-549.10	928.55	4,389.51	4,306.46	83.05	52.857	
16,600.00	12,637.00	18,912.00	10,672.97	71.08	120.81	-34.493	-549.10	928.55	4,473.82	4,391.46	82.36	54.320	
16,700.00	12,637.00	18,912.00	10,672.97	72.34	120.81	-34.493	-549.10	928.55	4,558.77	4,477.06	81.70	55.797	
16,800.00	12,637.00	18,912.00	10,672.97	73.61	120.81	-34.493	-549.10	928.55	4,644.31	4,563.24	81.07	57.286	
16,900.00	12,637.00	18,912.00	10,672.97	74.88	120.81	-34.493	-549.10	928.55	4,730.42	4,649.95	80.47	58.787	
17,000.00	12,637.00	18,912.00	10,672.97	76.16	120.81	-34.493	-549.10	928.55	4,817.07	4,737.18	79.89	60.297	
17,100.00	12,637.00	18,912.00	10,672.97	77.45	120.81	-34.493	-549.10	928.55	4,904.23	4,824.89	79.33	61.818	
17,200.00	12,637.00	18,912.00	10,672.97	78.74	120.81	-34.493	-549.10	928.55	4,991.86	4,913.06	78.80	63.346	
17,300.00	12,637.00	18,912.00	10,672.97	80.04	120.81	-34.493	-549.10	928.55	5,079.96	5,001.66	78.29	64.882	
17,400.00	12,637.00	18,912.00	10,672.97	81.34	120.81	-34.493	-549.10	928.55	5,168.49	5,090.68	77.81	66.425	
17,500.00	12,637.00	18,912.00	10,672.97	82.65	120.81	-34.493	-549.10	928.55	5,257.42	5,180.08	77.34	67.974	
17,600.00	12,637.00	18,912.00	10,672.97	83.96	120.81	-34.493	-549.10	928.55	5,346.75	5,269.85	76.90	69.529	
17,700.00	12,637.00	18,912.00	10,672.97	85.27	120.81	-34.493	-549.10	928.55	5,436.46	5,359.98	76.48	71.088	
17,800.00	12,637.00	18,912.00	10,672.97	86.59	120.81	-34.493	-549.10	928.55	5,526.51	5,450.44	76.07	72.650	
17,900.00	12,637.00	18,912.00	10,672.97	87.91	120.81	-34.493	-549.10	928.55	5,616.90	5,541.22	75.68	74.216	
18,000.00	12,637.00	18,912.00	10,672.97	89.24	120.81	-34.493	-549.10	928.55	5,707.62	5,632.30	75.31	75.785	
18,100.00	12,637.00	18,912.00	10,672.97	90.57	120.81	-34.493	-549.10	928.55	5,798.63	5,723.67	74.96	77.355	
18,200.00	12,637.00	18,912.00	10,672.97	91.90	120.81	-34.493	-549.10	928.55	5,889.94	5,815.32	74.62	78.927	
18,300.00	12,637.00	18,912.00	10,672.97	93.24	120.81	-34.493	-549.10	928.55	5,981.53	5,907.22	74.30	80.500	
18,400.00	12,637.00	18,912.00	10,672.97	94.58	120.81	-34.493	-549.10	928.55	6,073.38	5,999.38	74.00	82.073	
18,500.00	12,637.00	18,912.00	10,672.97	95.92	120.81	-34.493	-549.10	928.55	6,165.49	6,091.78	73.71	83.646	
18,600.00	12,637.00	18,912.00	10,672.97	97.26	120.81	-34.493	-549.10	928.55	6,257.84	6,184.40	73.43	85.218	
18,700.00	12,637.00	18,912.00	10,672.97	98.61	120.81	-34.493	-549.10	928.55	6,350.42	6,277.24	73.17	86.789	
18,800.00	12,637.00	18,912.00	10,672.97	99.96	120.81	-34.493	-549.10	928.55	6,443.22	6,370.30	72.92	88.359	
18,900.00	12,637.00	18,912.00	10,672.97	101.31	120.81	-34.493	-549.10	928.55	6,536.23	6,463.55	72.68	89.926	
19,000.00	12,637.00	18,912.00	10,672.97	102.67	120.81	-34.493	-549.10	928.55	6,629.45	6,556.99	72.46	91.492	
19,100.00	12,637.00	18,912.00	10,672.97	104.02	120.81	-34.493	-549.10	928.55	6,722.86	6,650.61	72.25	93.054	
19,200.00	12,637.00	18,912.00	10,672.97	105.38	120.81	-34.493	-549.10	928.55	6,816.46	6,744.42	72.05	94.614	
19,300.00	12,637.00	18,912.00	10,672.97	106.74	120.81	-34.493	-549.10	928.55	6,910.24	6,838.38	71.85	96.170	
19,400.00	12,637.00	18,912.00	10,672.97	108.11	120.81	-34.493	-549.10	928.55	7,004.19	6,932.52	71.67	97.722	
19,500.00	12,637.00	18,912.00	10,672.97	109.47	120.81	-34.493	-549.10	928.55	7,098.31	7,026.80	71.50	99.270	
19,600.00	12,637.00	18,912.00	10,672.97	110.84	120.81	-34.493	-549.10	928.55	7,192.58	7,121.24	71.34	100.814	
19,700.00	12,637.00	18,912.00	10,672.97	112.20	120.81	-34.493	-549.10	928.55	7,287.01	7,215.81	71.19	102.354	
19,800.00	12,637.00	18,912.00	10,672.97	113.57	120.81	-34.493	-549.10	928.55	7,381.58	7,310.53	71.05	103.888	
19,900.00	12,637.00	18,912.00	10,672.97	114.95	120.81	-34.493	-549.10	928.55	7,476.30	7,405.38	70.92	105.418	
20,000.00	12,637.00	18,912.00	10,672.97	116.32	120.81	-34.493	-549.10	928.55	7,571.15	7,500.35	70.80	106.942	
20,100.00	12,637.00	18,912.00	10,672.97	117.69	120.81	-34.493	-549.10	928.55	7,666.13	7,595.45	70.68	108.461	
20,200.00	12,637.00	18,912.00	10,672.97	119.07	120.81	-34.493	-549.10	928.55	7,761.24	7,690.67	70.57	109.974	
20,300.00	12,637.00	18,912.00	10,672.97	120.45	120.81	-34.493	-549.10	928.55	7,856.47	7,786.00	70.47	111.481	
20,400.00	12,637.00	18,912.00	10,672.97	121.83	120.81	-34.493	-549.10	928.55	7,951.82	7,881.44	70.38	112.982	
20,500.00	12,637.00	18,912.00	10,672.97	123.21	120.81	-34.493	-549.10	928.55	8,047.28	7,976.98	70.30	114.477	
20,600.00	12,637.00	18,912.00	10,672.97	124.59	120.81	-34.493	-549.10	928.55	8,142.85	8,072.63	70.22	115.965	
20,700.00	12,637.00	18,912.00	10,672.97	125.97	120.81	-34.493	-549.10	928.55	8,238.52	8,168.37	70.15	117.447	
20,800.00	12,637.00	18,912.00	10,672.97	127.35	120.81	-34.493	-549.10	928.55	8,334.30	8,264.21	70.08	118.922	
20,900.00	12,637.00	18,912.00	10,672.97	128.74	120.81	-34.493	-549.10	928.55	8,430.17	8,360.15	70.02	120.390	
21,000.00	12,637.00	18,912.00	10,672.97	130.12	120.81	-34.493	-549.10	928.55	8,526.14	8,456.17	69.97	121.852	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 3 - Cattleman Fed Com 123H - OH / 69915 - Surveys (H&P 616)												Offset Site Error:	0.00 usft
Survey Program: 206-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
21,100.00	12,637.00	18,912.00	10,672.97	131.51	120.81	-34.493	-549.10	928.55	8,622.20	8,552.27	69.93	123.306	
21,200.00	12,637.00	18,912.00	10,672.97	132.90	120.81	-34.493	-549.10	928.55	8,718.35	8,648.46	69.88	124.753	
21,300.00	12,637.00	18,912.00	10,672.97	134.29	120.81	-34.493	-549.10	928.55	8,814.58	8,744.73	69.85	126.193	
21,400.00	12,637.00	18,912.00	10,672.97	135.68	120.81	-34.493	-549.10	928.55	8,910.90	8,841.08	69.82	127.626	
21,500.00	12,637.00	18,912.00	10,672.97	137.07	120.81	-34.493	-549.10	928.55	9,007.30	8,937.50	69.80	129.051	
21,600.00	12,637.00	18,912.00	10,672.97	138.46	120.81	-34.493	-549.10	928.55	9,103.77	9,033.99	69.78	130.469	
21,700.00	12,637.00	18,912.00	10,672.97	139.85	120.81	-34.493	-549.10	928.55	9,200.32	9,130.56	69.76	131.879	
21,800.00	12,637.00	18,912.00	10,672.97	141.25	120.81	-34.493	-549.10	928.55	9,296.95	9,227.19	69.75	133.282	
21,900.00	12,637.00	18,912.00	10,672.97	142.64	120.81	-34.493	-549.10	928.55	9,393.64	9,323.89	69.75	134.677	
22,000.00	12,637.00	18,912.00	10,672.97	144.04	120.81	-34.493	-549.10	928.55	9,490.40	9,420.65	69.75	136.064	
22,100.00	12,637.00	18,912.00	10,672.97	145.43	120.81	-34.493	-549.10	928.55	9,587.23	9,517.48	69.75	137.444	
22,200.00	12,637.00	18,912.00	10,672.97	146.83	120.81	-34.493	-549.10	928.55	9,684.13	9,614.36	69.76	138.815	
22,300.00	12,637.00	18,912.00	10,672.97	148.23	120.81	-34.493	-549.10	928.55	9,781.08	9,711.31	69.78	140.179	
22,400.00	12,637.00	18,912.00	10,672.97	149.63	120.81	-34.493	-549.10	928.55	9,878.10	9,808.31	69.79	141.535	
22,500.00	12,637.00	18,912.00	10,672.97	151.02	120.81	-34.493	-549.10	928.55	9,975.17	9,905.36	69.81	142.883	
22,600.00	12,637.00	18,912.00	10,672.97	152.42	120.81	-34.493	-549.10	928.55	10,072.31	10,002.47	69.84	144.224	
22,700.00	12,637.00	18,912.00	10,672.97	153.83	120.81	-34.493	-549.10	928.55	10,169.50	10,099.63	69.87	145.556	
22,800.00	12,637.00	18,912.00	10,672.97	155.23	120.81	-34.493	-549.10	928.55	10,266.74	10,196.84	69.90	146.880	
22,900.00	12,637.00	18,912.00	10,672.97	156.63	120.81	-34.493	-549.10	928.55	10,364.03	10,294.10	69.93	148.197	
23,000.00	12,637.00	18,912.00	10,672.97	158.03	120.81	-34.493	-549.10	928.55	10,461.38	10,391.41	69.97	149.505	
23,100.00	12,637.00	18,912.00	10,672.97	159.43	120.81	-34.493	-549.10	928.55	10,558.77	10,488.76	70.02	150.806	
23,124.22	12,637.00	18,912.00	10,672.97	159.77	120.81	-34.493	-549.10	928.55	10,582.37	10,512.34	70.03	151.120	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 3 - Cattleman Fed Com 213H - OH / 69914 - Surveys (H&P 616)													Offset Site Error: 0.00 usft
Survey Program: 177-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	49.26	-0.74	1.00	1.04	8.870	7,690.89	1,200.29	7,783.99				
100.00	100.00	147.77	97.76	1.08	1.33	8.874	7,690.83	1,200.75	7,784.00	7,781.59	2.41	3,229.531	
200.00	200.00	246.58	196.57	1.60	1.87	8.880	7,690.75	1,201.52	7,784.04	7,780.60	3.44	2,261.710	
300.00	300.00	345.82	295.82	2.01	2.47	8.885	7,690.69	1,202.23	7,784.09	7,779.67	4.42	1,760.140	
400.00	400.00	445.41	395.40	2.35	3.03	8.890	7,690.63	1,202.96	7,784.15	7,778.85	5.30	1,470.045	
500.00	500.00	540.00	489.99	2.65	3.31	8.895	7,690.60	1,203.63	7,784.23	7,778.39	5.84	1,332.214	
600.00	600.00	630.64	580.63	2.93	3.53	8.899	7,690.68	1,204.17	7,784.41	7,778.11	6.30	1,235.926	
700.00	700.00	729.93	679.92	3.18	3.76	8.902	7,690.86	1,204.61	7,784.66	7,777.91	6.74	1,154.564	
800.00	800.00	821.90	771.89	3.41	3.95	8.903	7,691.12	1,204.82	7,784.96	7,777.81	7.15	1,088.944	
900.00	900.00	911.19	861.18	3.64	4.11	8.903	7,691.50	1,204.89	7,785.40	7,777.86	7.54	1,032.531	
1,000.00	1,000.00	1,017.75	967.73	3.85	4.29	8.903	7,692.00	1,204.89	7,785.86	7,777.91	7.95	979.194	
1,100.00	1,100.00	1,125.65	1,075.63	4.05	4.45	8.901	7,692.41	1,204.76	7,786.22	7,777.88	8.34	933.990	
1,200.00	1,200.00	1,215.60	1,165.58	4.24	4.54	8.898	7,692.78	1,204.42	7,786.57	7,777.91	8.66	899.514	
1,300.00	1,300.00	1,354.61	1,304.59	4.43	4.68	8.891	7,693.25	1,203.51	7,786.82	7,777.78	9.04	861.283	
1,400.00	1,400.00	1,464.04	1,414.01	4.61	4.78	8.889	7,693.11	1,203.19	7,786.64	7,777.30	9.34	833.287	
1,500.00	1,500.00	1,555.83	1,505.80	4.78	4.87	8.888	7,693.02	1,203.08	7,786.52	7,776.90	9.62	809.251	
1,504.34	1,504.34	1,559.96	1,509.93	4.79	4.88	118.353	7,693.01	1,203.08	7,786.52	7,776.89	9.63	808.365	
1,600.00	1,599.98	1,664.39	1,614.37	5.03	4.99	118.351	7,692.97	1,202.81	7,787.27	7,777.39	9.89	787.747	
1,629.90	1,629.86	1,702.79	1,652.76	5.06	5.03	118.351	7,692.89	1,202.69	7,787.77	7,777.83	9.95	783.039	
1,700.00	1,699.88	1,769.71	1,719.68	5.14	5.09	118.370	7,692.73	1,202.52	7,789.08	7,779.00	10.08	772.774	
1,800.00	1,799.78	1,882.32	1,832.29	5.31	5.21	118.403	7,692.40	1,202.46	7,790.95	7,780.61	10.34	753.340	
1,900.00	1,899.68	1,978.06	1,928.04	5.50	5.32	118.432	7,691.99	1,202.52	7,792.70	7,782.09	10.60	735.033	
2,000.00	1,999.58	2,068.82	2,018.80	5.70	5.44	118.461	7,691.66	1,202.85	7,794.55	7,783.69	10.86	717.453	
2,100.00	2,099.47	2,150.97	2,100.94	5.91	5.56	118.490	7,691.43	1,203.53	7,796.57	7,785.45	11.12	701.038	
2,200.00	2,199.37	2,233.22	2,183.18	6.14	5.68	118.522	7,691.34	1,204.59	7,798.83	7,787.45	11.38	685.158	
2,300.00	2,299.27	2,315.83	2,265.78	6.37	5.82	118.556	7,691.39	1,205.93	7,801.32	7,789.67	11.65	669.882	
2,400.00	2,399.16	2,394.17	2,344.10	6.61	5.95	118.591	7,691.55	1,207.65	7,804.04	7,792.14	11.90	655.538	
2,500.00	2,499.06	2,462.00	2,411.90	6.86	6.08	118.624	7,691.85	1,209.52	7,807.10	7,794.95	12.15	642.448	
2,600.00	2,598.96	2,495.52	2,445.41	7.12	6.17	118.642	7,692.17	1,210.68	7,810.80	7,798.43	12.38	631.068	
2,700.00	2,698.86	2,557.00	2,506.80	7.38	6.36	118.679	7,693.45	1,213.56	7,815.56	7,802.90	12.66	617.410	
2,800.00	2,798.75	2,557.00	2,506.80	7.65	6.36	118.679	7,693.45	1,213.56	7,820.83	7,808.01	12.82	610.012	
2,900.00	2,898.65	2,628.92	2,578.57	7.92	6.58	118.728	7,695.59	1,217.69	7,826.90	7,813.77	13.13	596.165	
3,000.00	2,998.55	2,694.67	2,644.16	8.20	6.74	118.774	7,697.77	1,221.81	7,833.38	7,819.98	13.40	584.451	
3,100.00	3,098.44	2,761.96	2,711.25	8.48	6.89	118.823	7,700.26	1,226.27	7,840.31	7,826.64	13.67	573.539	
3,200.00	3,198.34	2,840.00	2,789.03	8.77	7.08	118.882	7,703.35	1,231.80	7,847.59	7,833.63	13.96	562.125	
3,300.00	3,298.24	2,903.76	2,852.55	9.05	7.24	118.931	7,706.06	1,236.62	7,855.23	7,841.00	14.23	551.897	
3,400.00	3,398.14	19,073.12	11,049.29	9.35	119.38	-154.332	-352.98	1,529.68	7,825.08	7,748.91	76.17	102.733	
3,500.00	3,498.03	19,072.07	11,049.33	9.64	119.36	-154.363	-351.93	1,529.68	7,728.26	7,651.92	76.34	101.229	
3,600.00	3,597.93	19,071.00	11,049.38	9.94	119.35	-154.395	-350.86	1,529.69	7,631.52	7,555.00	76.53	99.725	
3,700.00	3,697.83	19,069.91	11,049.42	10.23	119.33	-154.427	-349.77	1,529.70	7,534.87	7,458.15	76.71	98.223	
3,800.00	3,797.72	19,068.81	11,049.47	10.53	119.32	-154.459	-348.67	1,529.70	7,438.30	7,361.39	76.90	96.722	
3,900.00	3,897.62	19,067.68	11,049.51	10.84	119.30	-154.492	-347.55	1,529.71	7,341.82	7,264.72	77.10	95.222	
4,000.00	3,997.52	19,066.54	11,049.56	11.14	119.29	-154.525	-346.41	1,529.71	7,245.44	7,168.14	77.31	93.724	
4,100.00	4,097.42	19,065.38	11,049.61	11.45	119.27	-154.559	-345.25	1,529.72	7,149.16	7,071.65	77.52	92.228	
4,200.00	4,197.31	19,064.20	11,049.66	11.75	119.25	-154.594	-344.07	1,529.73	7,052.98	6,975.25	77.73	90.733	
4,300.00	4,297.21	19,063.00	11,049.72	12.06	119.24	-154.629	-342.87	1,529.73	6,956.91	6,878.96	77.96	89.241	
4,400.00	4,397.11	19,061.77	11,049.77	12.37	119.22	-154.665	-341.64	1,529.74	6,860.95	6,782.77	78.19	87.750	
4,500.00	4,497.01	19,060.53	11,049.82	12.68	119.20	-154.702	-340.40	1,529.75	6,765.11	6,686.68	78.43	86.262	
4,600.00	4,596.90	19,059.26	11,049.88	13.00	119.19	-154.739	-339.14	1,529.75	6,669.39	6,590.72	78.67	84.776	
4,700.00	4,696.80	19,057.98	11,049.94	13.31	119.17	-154.777	-337.85	1,529.76	6,573.79	6,494.87	78.92	83.293	
4,800.00	4,796.70	19,056.66	11,049.99	13.62	119.15	-154.815	-336.54	1,529.77	6,478.33	6,399.15	79.19	81.813	
4,900.00	4,896.59	19,055.33	11,050.05	13.94	119.13	-154.854	-335.20	1,529.77	6,383.01	6,303.55	79.45	80.335	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 3 - Cattleman Fed Com 213H - OH / 69914 - Surveys (H&P 616)												Offset Site Error:	0.00 usft
Survey Program: 177-MWD+HRGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,996.49	19,053.97	11,050.11	14.25	119.11	-154.894	-333.84	1,529.78	6,287.83	6,208.10	79.73	78.860	
5,100.00	5,096.39	19,052.58	11,050.18	14.57	119.09	-154.935	-332.46	1,529.79	6,192.80	6,112.78	80.02	77.389	
5,200.00	5,196.29	19,005.00	11,052.56	14.89	118.43	-156.334	-284.94	1,530.01	6,098.30	6,018.37	79.93	76.295	
5,300.00	5,296.18	19,005.00	11,052.56	15.20	118.43	-156.334	-284.94	1,530.01	6,003.58	5,923.33	80.25	74.811	
5,400.00	5,396.08	19,005.00	11,052.56	15.52	118.43	-156.334	-284.94	1,530.01	5,909.03	5,828.45	80.58	73.330	
5,500.00	5,495.98	19,005.00	11,052.56	15.84	118.43	-156.334	-284.94	1,530.01	5,814.66	5,733.74	80.92	71.854	
5,600.00	5,595.87	19,005.00	11,052.56	16.16	118.43	-156.334	-284.94	1,530.01	5,720.49	5,639.21	81.28	70.382	
5,700.00	5,695.77	19,005.00	11,052.56	16.48	118.43	-156.334	-284.94	1,530.01	5,626.51	5,544.87	81.65	68.914	
5,800.00	5,795.67	19,005.00	11,052.56	16.80	118.43	-156.334	-284.94	1,530.01	5,532.75	5,450.72	82.03	67.451	
5,900.00	5,895.57	19,005.00	11,052.56	17.12	118.43	-156.334	-284.94	1,530.01	5,439.20	5,356.78	82.42	65.993	
6,000.00	5,995.46	19,005.00	11,052.56	17.44	118.43	-156.334	-284.94	1,530.01	5,345.90	5,263.06	82.83	64.539	
6,100.00	6,095.36	19,005.00	11,052.56	17.76	118.43	-156.334	-284.94	1,530.01	5,252.83	5,169.58	83.26	63.091	
6,200.00	6,195.26	19,005.00	11,052.56	18.09	118.43	-156.334	-284.94	1,530.01	5,160.03	5,076.33	83.70	61.649	
6,300.00	6,295.16	19,005.00	11,052.56	18.41	118.43	-156.334	-284.94	1,530.01	5,067.50	4,983.34	84.16	60.212	
6,400.00	6,395.05	19,005.00	11,052.56	18.73	118.43	-156.334	-284.94	1,530.01	4,975.26	4,890.62	84.64	58.782	
6,500.00	6,494.95	19,005.00	11,052.56	19.06	118.43	-156.334	-284.94	1,530.01	4,883.33	4,798.19	85.14	57.357	
6,600.00	6,594.85	19,005.00	11,052.56	19.38	118.43	-156.334	-284.94	1,530.01	4,791.72	4,706.06	85.66	55.939	
6,700.00	6,694.74	19,005.00	11,052.56	19.70	118.43	-156.334	-284.94	1,530.01	4,700.45	4,614.25	86.20	54.528	
6,800.00	6,794.64	19,005.00	11,052.56	20.03	118.43	-156.334	-284.94	1,530.01	4,609.54	4,522.77	86.77	53.124	
6,900.00	6,894.54	19,005.00	11,052.56	20.35	118.43	-156.334	-284.94	1,530.01	4,519.02	4,431.66	87.36	51.728	
7,000.00	6,994.44	19,005.00	11,052.56	20.68	118.43	-156.334	-284.94	1,530.01	4,428.91	4,340.93	87.98	50.340	
7,100.00	7,094.33	19,005.00	11,052.56	21.00	118.43	-156.334	-284.94	1,530.01	4,339.22	4,250.60	88.63	48.960	
7,200.00	7,194.23	19,005.00	11,052.56	21.33	118.43	-156.334	-284.94	1,530.01	4,250.00	4,160.70	89.31	47.589	
7,300.00	7,294.13	19,005.00	11,052.56	21.65	118.43	-156.334	-284.94	1,530.01	4,161.27	4,071.25	90.02	46.227	
7,400.00	7,394.02	19,005.00	11,052.56	21.98	118.43	-156.334	-284.94	1,530.01	4,073.06	3,982.30	90.76	44.875	
7,500.00	7,493.92	19,005.00	11,052.56	22.30	118.43	-156.334	-284.94	1,530.01	3,985.41	3,893.86	91.55	43.534	
7,600.00	7,593.82	19,005.00	11,052.56	22.63	118.43	-156.334	-284.94	1,530.01	3,898.35	3,805.98	92.37	42.204	
7,700.00	7,693.72	19,005.00	11,052.56	22.95	118.43	-156.334	-284.94	1,530.01	3,811.93	3,718.70	93.24	40.885	
7,800.00	7,793.61	19,005.00	11,052.56	23.28	118.43	-156.334	-284.94	1,530.01	3,726.19	3,632.05	94.14	39.579	
7,900.00	7,893.51	19,005.00	11,052.56	23.61	118.43	-156.334	-284.94	1,530.01	3,641.17	3,546.07	95.10	38.287	
8,000.00	7,993.41	19,005.00	11,052.56	23.93	118.43	-156.334	-284.94	1,530.01	3,556.94	3,460.83	96.11	37.009	
8,100.00	8,093.31	19,005.00	11,052.56	24.26	118.43	-156.334	-284.94	1,530.01	3,473.54	3,376.37	97.17	35.746	
8,200.00	8,193.20	18,989.83	11,053.40	24.59	118.22	-156.781	-269.80	1,530.08	3,390.99	3,292.82	98.17	34.543	
8,300.00	8,293.10	18,986.73	11,053.58	24.92	118.18	-156.872	-266.70	1,530.09	3,309.43	3,210.11	99.32	33.320	
8,400.00	8,393.00	18,983.58	11,053.76	25.24	118.13	-156.965	-263.55	1,530.10	3,228.91	3,128.37	100.54	32.116	
8,500.00	8,492.89	18,980.38	11,053.94	25.57	118.09	-157.060	-260.36	1,530.12	3,149.50	3,047.67	101.83	30.930	
8,600.00	8,592.79	18,977.13	11,054.13	25.90	118.04	-157.156	-257.11	1,530.13	3,071.28	2,968.10	103.18	29.766	
8,700.00	8,692.69	18,973.82	11,054.32	26.23	118.00	-157.253	-253.81	1,530.15	2,994.36	2,889.75	104.61	28.624	
8,800.00	8,792.59	18,970.46	11,054.51	26.55	117.95	-157.352	-250.46	1,530.17	2,918.83	2,812.72	106.11	27.506	
8,900.00	8,892.48	18,967.05	11,054.71	26.88	117.90	-157.453	-247.05	1,530.18	2,844.81	2,737.11	107.70	26.414	
9,000.00	8,992.38	18,963.58	11,054.92	27.21	117.86	-157.555	-243.58	1,530.20	2,772.41	2,663.05	109.36	25.350	
9,100.00	9,092.28	18,960.05	11,055.13	27.54	117.81	-157.660	-240.06	1,530.22	2,701.77	2,590.66	111.11	24.316	
9,200.00	9,192.17	18,956.46	11,055.34	27.87	117.76	-157.766	-236.48	1,530.24	2,633.03	2,520.09	112.94	23.313	
9,300.00	9,292.07	18,952.81	11,055.56	28.19	117.71	-157.873	-232.84	1,530.25	2,566.34	2,451.48	114.85	22.345	
9,400.00	9,391.97	18,949.10	11,055.78	28.52	117.65	-157.983	-229.13	1,530.27	2,501.86	2,385.01	116.84	21.412	
9,500.00	9,491.87	18,945.32	11,056.01	28.85	117.60	-158.095	-225.36	1,530.29	2,439.76	2,320.86	118.91	20.518	
9,600.00	9,591.76	18,941.48	11,056.25	29.18	117.55	-158.208	-221.53	1,530.31	2,380.25	2,259.21	121.04	19.664	
9,700.00	9,691.66	18,937.57	11,056.49	29.51	117.50	-158.324	-217.62	1,530.33	2,323.51	2,200.27	123.24	18.854	
9,800.00	9,791.56	18,933.59	11,056.74	29.84	117.44	-158.441	-213.65	1,530.36	2,269.75	2,144.26	125.48	18.088	
9,900.00	9,891.45	18,929.54	11,056.99	30.17	117.38	-158.561	-209.61	1,530.38	2,219.18	2,091.42	127.76	17.370	
10,000.00	9,991.35	18,925.41	11,057.25	30.50	117.33	-158.683	-205.49	1,530.40	2,172.04	2,041.98	130.06	16.701	
10,100.00	10,091.25	18,921.21	11,057.52	30.83	117.27	-158.807	-201.30	1,530.43	2,128.55	1,996.20	132.35	16.083	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 3 - Cattleman Fed Com 213H - OH / 69914 - Surveys (H&P 616)												Offset Site Error:	0.00 usft
Survey Program: 177-MWD+HRGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,200.00	10,191.15	18,916.94	11,057.79	31.15	117.21	-158.933	-197.03	1,530.45	2,088.93	1,954.32	134.61	15.518	
10,300.00	10,291.04	18,910.00	11,058.23	31.48	117.11	-159.138	-190.11	1,530.49	2,053.41	1,916.61	136.80	15.010	
10,400.00	10,390.94	18,907.88	11,058.37	31.81	117.08	-159.201	-188.00	1,530.50	2,022.20	1,883.26	138.95	14.554	
10,500.00	10,490.84	18,902.92	11,058.69	32.14	117.02	-159.348	-183.05	1,530.53	1,995.51	1,854.55	140.96	14.157	
10,600.00	10,590.74	18,898.13	11,058.99	32.47	116.95	-159.489	-178.27	1,530.56	1,973.52	1,830.69	142.83	13.817	
10,700.00	10,690.63	18,893.51	11,059.28	32.80	116.88	-159.626	-173.65	1,530.60	1,956.39	1,811.86	144.54	13.536	
10,800.00	10,790.53	18,889.04	11,059.55	33.13	116.82	-159.758	-169.19	1,530.63	1,944.25	1,798.20	146.05	13.312	
10,900.00	10,890.43	18,884.72	11,059.82	33.46	116.76	-159.886	-164.88	1,530.66	1,937.19	1,789.84	147.35	13.147	
10,987.27	10,977.61	18,881.06	11,060.04	33.75	116.71	-159.994	-161.23	1,530.68	1,935.23	1,786.94	148.29	13.050 CC	
11,000.00	10,990.32	18,880.54	11,060.07	33.79	116.71	-160.010	-160.71	1,530.69	1,935.27	1,786.85	148.42	13.040 ES	
11,100.00	11,090.22	18,876.49	11,060.31	34.12	116.65	-160.129	-156.66	1,530.71	1,938.50	1,789.26	149.24	12.989 SF	
11,200.00	11,190.12	18,872.57	11,060.54	34.45	116.59	-160.245	-152.75	1,530.74	1,946.86	1,797.04	149.83	12.994	
11,300.00	11,290.02	18,868.77	11,060.76	34.78	116.54	-160.358	-148.96	1,530.77	1,960.29	1,810.12	150.17	13.054	
11,400.00	11,389.91	18,865.09	11,060.97	35.11	116.49	-160.467	-145.28	1,530.80	1,978.68	1,828.40	150.28	13.167	
11,444.32	11,434.18	18,863.49	11,061.06	35.25	116.47	-160.514	-143.69	1,530.82	1,988.38	1,838.13	150.25	13.234	
11,500.00	11,489.83	18,861.35	11,061.18	35.42	116.44	-160.666	-141.55	1,530.83	2,001.39	1,851.24	150.15	13.329	
11,574.22	11,564.04	18,858.07	11,061.36	35.53	116.39	-89.651	-138.28	1,530.86	2,019.47	1,869.66	149.81	13.480	
11,600.00	11,589.82	18,856.85	11,061.43	35.53	116.38	-89.615	-137.06	1,530.87	2,026.04	1,876.41	149.63	13.540	
11,700.00	11,689.82	18,852.21	11,061.69	35.54	116.31	-89.479	-132.42	1,530.91	2,054.38	1,905.53	148.85	13.802	
11,800.00	11,789.82	18,847.69	11,061.93	35.56	116.25	-89.347	-127.91	1,530.95	2,087.12	1,939.20	147.92	14.109	
11,900.00	11,889.82	18,843.30	11,062.17	35.58	116.19	-89.219	-123.53	1,530.99	2,124.06	1,977.18	146.88	14.461	
12,000.00	11,989.82	18,839.04	11,062.39	35.60	116.13	-89.094	-119.27	1,531.02	2,164.98	2,019.23	145.75	14.854	
12,074.22	12,064.04	18,835.95	11,062.55	35.61	116.09	-89.004	-116.19	1,531.05	2,197.80	2,052.94	144.86	15.172	
12,100.00	12,089.81	18,835.35	11,062.59	35.62	116.08	-89.105	-115.59	1,531.06	2,209.66	2,065.11	144.55	15.287	
12,150.00	12,139.60	18,836.79	11,062.51	35.69	116.10	-86.386	-117.03	1,531.04	2,233.28	2,089.31	143.97	15.512	
12,200.00	12,188.82	18,841.60	11,062.26	35.77	116.17	-83.489	-121.83	1,531.00	2,257.51	2,114.07	143.44	15.739	
12,250.00	12,237.08	18,849.69	11,061.82	35.86	116.28	-80.461	-129.91	1,530.93	2,282.12	2,139.19	142.94	15.966	
12,300.00	12,284.02	18,860.92	11,061.20	35.96	116.43	-77.361	-141.12	1,530.84	2,306.88	2,164.40	142.49	16.190	
12,350.00	12,329.30	18,875.15	11,060.38	36.06	116.63	-74.248	-155.33	1,530.72	2,331.54	2,189.46	142.08	16.410	
12,400.00	12,372.55	18,892.25	11,059.36	36.17	116.87	-71.183	-172.40	1,530.60	2,355.84	2,214.11	141.73	16.622	
12,450.00	12,413.46	18,913.01	11,058.04	36.28	117.15	-68.202	-193.11	1,530.47	2,379.54	2,238.09	141.44	16.823	
12,500.00	12,451.70	18,946.34	11,055.95	36.40	117.62	-65.188	-226.38	1,530.29	2,402.29	2,261.02	141.27	17.004	
12,550.00	12,487.00	18,983.81	11,053.74	36.51	118.14	-62.387	-263.78	1,530.10	2,423.78	2,282.60	141.19	17.167	
12,600.00	12,519.08	19,031.54	11,051.18	36.63	118.80	-59.751	-311.44	1,529.89	2,443.69	2,302.47	141.22	17.304	
12,650.00	12,547.69	19,091.16	11,048.57	36.75	119.63	-57.332	-371.01	1,529.57	2,461.58	2,320.20	141.39	17.410	
12,700.00	12,572.62	19,155.57	11,046.55	36.86	120.53	-55.271	-435.38	1,529.15	2,477.12	2,335.47	141.65	17.488	
12,750.00	12,593.68	19,209.86	11,045.42	36.99	121.28	-53.693	-489.66	1,528.73	2,490.11	2,348.18	141.93	17.545	
12,800.00	12,610.72	19,250.00	11,044.63	37.11	121.84	-52.544	-529.79	1,528.41	2,500.66	2,358.46	142.20	17.586	
12,850.00	12,623.59	19,250.00	11,044.63	37.23	121.84	-51.855	-529.79	1,528.41	2,509.25	2,366.96	142.29	17.635	
12,900.00	12,632.20	19,250.00	11,044.63	37.36	121.84	-51.309	-529.79	1,528.41	2,516.15	2,373.75	142.40	17.669	
12,950.00	12,636.49	19,250.00	11,044.63	37.49	121.84	-50.904	-529.79	1,528.41	2,521.33	2,378.79	142.54	17.689	
12,974.22	12,637.00	19,250.00	11,044.63	37.55	121.84	-50.758	-529.79	1,528.41	2,523.20	2,380.61	142.59	17.696	
13,000.00	12,637.00	19,250.00	11,044.63	37.62	121.84	-50.758	-529.79	1,528.41	2,525.11	2,382.47	142.64	17.703	
13,100.00	12,637.00	19,250.00	11,044.63	37.92	121.84	-50.758	-529.79	1,528.41	2,534.98	2,392.27	142.71	17.763	
13,200.00	12,637.00	19,250.00	11,044.63	38.28	121.84	-50.758	-529.79	1,528.41	2,548.74	2,406.11	142.62	17.870	
13,300.00	12,637.00	19,250.00	11,044.63	38.69	121.84	-50.758	-529.79	1,528.41	2,566.32	2,423.94	142.38	18.024	
13,400.00	12,637.00	19,250.00	11,044.63	39.15	121.84	-50.758	-529.79	1,528.41	2,587.65	2,445.66	141.98	18.225	
13,500.00	12,637.00	19,250.00	11,044.63	39.66	121.84	-50.758	-529.79	1,528.41	2,612.63	2,471.19	141.45	18.471	
13,600.00	12,637.00	19,250.00	11,044.63	40.23	121.84	-50.758	-529.79	1,528.41	2,641.17	2,500.40	140.77	18.762	
13,700.00	12,637.00	19,250.00	11,044.63	40.84	121.84	-50.758	-529.79	1,528.41	2,673.15	2,533.17	139.98	19.097	
13,800.00	12,637.00	19,250.00	11,044.63	41.49	121.84	-50.758	-529.79	1,528.41	2,708.44	2,569.36	139.08	19.474	
13,900.00	12,637.00	19,250.00	11,044.63	42.20	121.84	-50.758	-529.79	1,528.41	2,746.93	2,608.85	138.08	19.894	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 3 - Cattleman Fed Com 213H - OH / 69914 - Surveys (H&P 616)													Offset Site Error:	0.00 usft	
Survey Program:		177-MWD+HRGM		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
14,000.00	12,637.00	19,250.00	11,044.63	42.94	121.84	-50.758	-529.79	1,528.41	2,788.46	2,651.47	136.99	20.355			
14,100.00	12,637.00	19,250.00	11,044.63	43.73	121.84	-50.758	-529.79	1,528.41	2,832.93	2,697.09	135.84	20.855			
14,200.00	12,637.00	19,250.00	11,044.63	44.55	121.84	-50.758	-529.79	1,528.41	2,880.17	2,745.56	134.62	21.395			
14,300.00	12,637.00	19,250.00	11,044.63	45.41	121.84	-50.758	-529.79	1,528.41	2,930.07	2,796.72	133.35	21.973			
14,400.00	12,637.00	19,250.00	11,044.63	46.30	121.84	-50.758	-529.79	1,528.41	2,982.49	2,850.45	132.04	22.587			
14,500.00	12,637.00	19,250.00	11,044.63	47.23	121.84	-50.758	-529.79	1,528.41	3,037.30	2,906.59	130.71	23.237			
14,600.00	12,637.00	19,250.00	11,044.63	48.18	121.84	-50.758	-529.79	1,528.41	3,094.37	2,965.02	129.35	23.922			
14,700.00	12,637.00	19,250.00	11,044.63	49.16	121.84	-50.758	-529.79	1,528.41	3,153.58	3,025.60	127.99	24.640			
14,800.00	12,637.00	19,250.00	11,044.63	50.17	121.84	-50.758	-529.79	1,528.41	3,214.81	3,088.20	126.61	25.391			
14,900.00	12,637.00	19,250.00	11,044.63	51.19	121.84	-50.758	-529.79	1,528.41	3,277.95	3,152.71	125.24	26.173			
15,000.00	12,637.00	19,250.00	11,044.63	52.25	121.84	-50.758	-529.79	1,528.41	3,342.89	3,219.01	123.88	26.986			
15,100.00	12,637.00	19,250.00	11,044.63	53.32	121.84	-50.758	-529.79	1,528.41	3,409.52	3,287.00	122.52	27.828			
15,200.00	12,637.00	19,250.00	11,044.63	54.41	121.84	-50.758	-529.79	1,528.41	3,477.75	3,356.57	121.18	28.698			
15,300.00	12,637.00	19,250.00	11,044.63	55.51	121.84	-50.758	-529.79	1,528.41	3,547.49	3,427.62	119.87	29.596			
15,400.00	12,637.00	19,250.00	11,044.63	56.64	121.84	-50.758	-529.79	1,528.41	3,618.65	3,500.08	118.57	30.519			
15,500.00	12,637.00	19,250.00	11,044.63	57.78	121.84	-50.758	-529.79	1,528.41	3,691.15	3,573.85	117.30	31.469			
15,600.00	12,637.00	19,250.00	11,044.63	58.93	121.84	-50.758	-529.79	1,528.41	3,764.90	3,648.85	116.05	32.442			
15,700.00	12,637.00	19,250.00	11,044.63	60.10	121.84	-50.758	-529.79	1,528.41	3,839.85	3,725.02	114.83	33.439			
15,800.00	12,637.00	19,250.00	11,044.63	61.28	121.84	-50.758	-529.79	1,528.41	3,915.91	3,802.27	113.64	34.458			
15,900.00	12,637.00	19,250.00	11,044.63	62.47	121.84	-50.758	-529.79	1,528.41	3,993.03	3,880.55	112.48	35.499			
16,000.00	12,637.00	19,250.00	11,044.63	63.67	121.84	-50.758	-529.79	1,528.41	4,071.15	3,959.79	111.35	36.561			
16,100.00	12,637.00	19,250.00	11,044.63	64.88	121.84	-50.758	-529.79	1,528.41	4,150.20	4,039.95	110.25	37.643			
16,200.00	12,637.00	19,250.00	11,044.63	66.11	121.84	-50.758	-529.79	1,528.41	4,230.14	4,120.96	109.18	38.743			
16,300.00	12,637.00	19,250.00	11,044.63	67.34	121.84	-50.758	-529.79	1,528.41	4,310.92	4,202.77	108.15	39.862			
16,400.00	12,637.00	19,250.00	11,044.63	68.58	121.84	-50.758	-529.79	1,528.41	4,392.49	4,285.35	107.14	40.998			
16,500.00	12,637.00	19,250.00	11,044.63	69.82	121.84	-50.758	-529.79	1,528.41	4,474.81	4,368.65	106.16	42.151			
16,600.00	12,637.00	19,250.00	11,044.63	71.08	121.84	-50.758	-529.79	1,528.41	4,557.83	4,452.62	105.21	43.319			
16,700.00	12,637.00	19,250.00	11,044.63	72.34	121.84	-50.758	-529.79	1,528.41	4,641.53	4,537.23	104.30	44.503			
16,800.00	12,637.00	19,250.00	11,044.63	73.61	121.84	-50.758	-529.79	1,528.41	4,725.86	4,622.45	103.41	45.701			
16,900.00	12,637.00	19,250.00	11,044.63	74.88	121.84	-50.758	-529.79	1,528.41	4,810.78	4,708.24	102.55	46.913			
17,000.00	12,637.00	19,250.00	11,044.63	76.16	121.84	-50.758	-529.79	1,528.41	4,896.28	4,794.57	101.71	48.138			
17,100.00	12,637.00	19,250.00	11,044.63	77.45	121.84	-50.758	-529.79	1,528.41	4,982.32	4,881.41	100.91	49.375			
17,200.00	12,637.00	19,250.00	11,044.63	78.74	121.84	-50.758	-529.79	1,528.41	5,068.87	4,968.74	100.13	50.624			
17,300.00	12,637.00	19,250.00	11,044.63	80.04	121.84	-50.758	-529.79	1,528.41	5,155.91	5,056.53	99.37	51.884			
17,400.00	12,637.00	19,250.00	11,044.63	81.34	121.84	-50.758	-529.79	1,528.41	5,243.41	5,144.76	98.64	53.155			
17,500.00	12,637.00	19,250.00	11,044.63	82.65	121.84	-50.758	-529.79	1,528.41	5,331.35	5,233.41	97.94	54.435			
17,600.00	12,637.00	19,250.00	11,044.63	83.96	121.84	-50.758	-529.79	1,528.41	5,419.70	5,322.45	97.26	55.725			
17,700.00	12,637.00	19,250.00	11,044.63	85.27	121.84	-50.758	-529.79	1,528.41	5,508.46	5,411.86	96.60	57.024			
17,800.00	12,637.00	19,250.00	11,044.63	86.59	121.84	-50.758	-529.79	1,528.41	5,597.59	5,501.63	95.96	58.331			
17,900.00	12,637.00	19,250.00	11,044.63	87.91	121.84	-50.758	-529.79	1,528.41	5,687.09	5,591.74	95.35	59.645			
18,000.00	12,637.00	19,250.00	11,044.63	89.24	121.84	-50.758	-529.79	1,528.41	5,776.93	5,682.18	94.76	60.967			
18,100.00	12,637.00	19,250.00	11,044.63	90.57	121.84	-50.758	-529.79	1,528.41	5,867.10	5,772.92	94.18	62.296			
18,200.00	12,637.00	19,250.00	11,044.63	91.90	121.84	-50.758	-529.79	1,528.41	5,957.58	5,863.96	93.63	63.630			
18,300.00	12,637.00	19,250.00	11,044.63	93.24	121.84	-50.758	-529.79	1,528.41	6,048.37	5,955.27	93.09	64.971			
18,400.00	12,637.00	19,250.00	11,044.63	94.58	121.84	-50.758	-529.79	1,528.41	6,139.44	6,046.86	92.58	66.317			
18,500.00	12,637.00	19,250.00	11,044.63	95.92	121.84	-50.758	-529.79	1,528.41	6,230.78	6,138.70	92.08	67.668			
18,600.00	12,637.00	19,250.00	11,044.63	97.26	121.84	-50.758	-529.79	1,528.41	6,322.38	6,230.79	91.60	69.023			
18,700.00	12,637.00	19,250.00	11,044.63	98.61	121.84	-50.758	-529.79	1,528.41	6,414.24	6,323.11	91.13	70.383			
18,800.00	12,637.00	19,250.00	11,044.63	99.96	121.84	-50.758	-529.79	1,528.41	6,506.34	6,415.65	90.69	71.746			
18,900.00	12,637.00	19,250.00	11,044.63	101.31	121.84	-50.758	-529.79	1,528.41	6,598.66	6,508.41	90.25	73.113			
19,000.00	12,637.00	19,250.00	11,044.63	102.67	121.84	-50.758	-529.79	1,528.41	6,691.21	6,601.37	89.84	74.482			
19,100.00	12,637.00	19,250.00	11,044.63	104.02	121.84	-50.758	-529.79	1,528.41	6,783.97	6,694.53	89.43	75.854			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 3 - Cattleman Fed Com 213H - OH / 69914 - Surveys (H&P 616)													Offset Site Error:	0.00 usft	
Survey Program:		177-MWD+HRGM		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
19,200.00	12,637.00	19,250.00	11,044.63	105.38	121.84	-50.758	-529.79	1,528.41	6,876.93	6,787.88	89.05	77.229			
19,300.00	12,637.00	19,250.00	11,044.63	106.74	121.84	-50.758	-529.79	1,528.41	6,970.09	6,881.41	88.67	78.605			
19,400.00	12,637.00	19,250.00	11,044.63	108.11	121.84	-50.758	-529.79	1,528.41	7,063.43	6,975.12	88.31	79.983			
19,500.00	12,637.00	19,250.00	11,044.63	109.47	121.84	-50.758	-529.79	1,528.41	7,156.95	7,068.99	87.96	81.362			
19,600.00	12,637.00	19,250.00	11,044.63	110.84	121.84	-50.758	-529.79	1,528.41	7,250.65	7,163.02	87.63	82.742			
19,700.00	12,637.00	19,250.00	11,044.63	112.20	121.84	-50.758	-529.79	1,528.41	7,344.51	7,257.20	87.31	84.123			
19,800.00	12,637.00	19,250.00	11,044.63	113.57	121.84	-50.758	-529.79	1,528.41	7,438.53	7,351.54	87.00	85.504			
19,900.00	12,637.00	19,250.00	11,044.63	114.95	121.84	-50.758	-529.79	1,528.41	7,532.71	7,446.01	86.70	86.885			
20,000.00	12,637.00	19,250.00	11,044.63	116.32	121.84	-50.758	-529.79	1,528.41	7,627.03	7,540.62	86.41	88.267			
20,100.00	12,637.00	19,250.00	11,044.63	117.69	121.84	-50.758	-529.79	1,528.41	7,721.50	7,635.37	86.13	89.647			
20,200.00	12,637.00	19,250.00	11,044.63	119.07	121.84	-50.758	-529.79	1,528.41	7,816.11	7,730.24	85.87	91.028			
20,300.00	12,637.00	19,250.00	11,044.63	120.45	121.84	-50.758	-529.79	1,528.41	7,910.84	7,825.23	85.61	92.407			
20,400.00	12,637.00	19,250.00	11,044.63	121.83	121.84	-50.758	-529.79	1,528.41	8,005.71	7,920.35	85.36	93.785			
20,500.00	12,637.00	19,250.00	11,044.63	123.21	121.84	-50.758	-529.79	1,528.41	8,100.70	8,015.57	85.13	95.162			
20,600.00	12,637.00	19,250.00	11,044.63	124.59	121.84	-50.758	-529.79	1,528.41	8,195.81	8,110.91	84.90	96.537			
20,700.00	12,637.00	19,250.00	11,044.63	125.97	121.84	-50.758	-529.79	1,528.41	8,291.03	8,206.35	84.68	97.911			
20,800.00	12,637.00	19,250.00	11,044.63	127.35	121.84	-50.758	-529.79	1,528.41	8,386.36	8,301.90	84.47	99.283			
20,900.00	12,637.00	19,250.00	11,044.63	128.74	121.84	-50.758	-529.79	1,528.41	8,481.81	8,397.54	84.27	100.652			
21,000.00	12,637.00	19,250.00	11,044.63	130.12	121.84	-50.758	-529.79	1,528.41	8,577.35	8,493.28	84.08	102.019			
21,100.00	12,637.00	19,250.00	11,044.63	131.51	121.84	-50.758	-529.79	1,528.41	8,673.00	8,589.11	83.89	103.384			
21,200.00	12,637.00	19,250.00	11,044.63	132.90	121.84	-50.758	-529.79	1,528.41	8,768.74	8,685.03	83.71	104.746			
21,300.00	12,637.00	19,250.00	11,044.63	134.29	121.84	-50.758	-529.79	1,528.41	8,864.58	8,781.04	83.55	106.105			
21,400.00	12,637.00	19,250.00	11,044.63	135.68	121.84	-50.758	-529.79	1,528.41	8,960.51	8,877.13	83.38	107.461			
21,500.00	12,637.00	19,250.00	11,044.63	137.07	121.84	-50.758	-529.79	1,528.41	9,056.53	8,973.30	83.23	108.814			
21,600.00	12,637.00	19,250.00	11,044.63	138.46	121.84	-50.758	-529.79	1,528.41	9,152.63	9,069.55	83.08	110.164			
21,700.00	12,637.00	19,250.00	11,044.63	139.85	121.84	-50.758	-529.79	1,528.41	9,248.81	9,165.87	82.94	111.510			
21,800.00	12,637.00	19,250.00	11,044.63	141.25	121.84	-50.758	-529.79	1,528.41	9,345.08	9,262.27	82.81	112.853			
21,900.00	12,637.00	19,250.00	11,044.63	142.64	121.84	-50.758	-529.79	1,528.41	9,441.42	9,358.74	82.68	114.192			
22,000.00	12,637.00	19,250.00	11,044.63	144.04	121.84	-50.758	-529.79	1,528.41	9,537.84	9,455.28	82.56	115.528			
22,100.00	12,637.00	19,250.00	11,044.63	145.43	121.84	-50.758	-529.79	1,528.41	9,634.33	9,551.88	82.44	116.859			
22,200.00	12,637.00	19,250.00	11,044.63	146.83	121.84	-50.758	-529.79	1,528.41	9,730.89	9,648.55	82.34	118.186			
22,300.00	12,637.00	19,250.00	11,044.63	148.23	121.84	-50.758	-529.79	1,528.41	9,827.52	9,745.29	82.23	119.509			
22,400.00	12,637.00	19,250.00	11,044.63	149.63	121.84	-50.758	-529.79	1,528.41	9,924.22	9,842.08	82.13	120.828			
22,500.00	12,637.00	19,250.00	11,044.63	151.02	121.84	-50.758	-529.79	1,528.41	10,020.98	9,938.94	82.04	122.143			
22,600.00	12,637.00	19,250.00	11,044.63	152.42	121.84	-50.758	-529.79	1,528.41	10,117.80	10,035.85	81.96	123.453			
22,700.00	12,637.00	19,250.00	11,044.63	153.83	121.84	-50.758	-529.79	1,528.41	10,214.69	10,132.81	81.88	124.758			
22,800.00	12,637.00	19,250.00	11,044.63	155.23	121.84	-50.758	-529.79	1,528.41	10,311.63	10,229.83	81.80	126.059			
22,900.00	12,637.00	19,250.00	11,044.63	156.63	121.84	-50.758	-529.79	1,528.41	10,408.64	10,326.91	81.73	127.355			
23,000.00	12,637.00	19,250.00	11,044.63	158.03	121.84	-50.758	-529.79	1,528.41	10,505.70	10,424.03	81.66	128.647			
23,100.00	12,637.00	19,250.00	11,044.63	159.43	121.84	-50.758	-529.79	1,528.41	10,602.81	10,521.21	81.60	129.933			
23,124.22	12,637.00	19,250.00	11,044.63	159.77	121.84	-50.758	-529.79	1,528.41	10,626.34	10,544.75	81.59	130.244			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 4 - Cattleman Fed Com 114H - OH / 69918 - Surveys (H&P 656)												Offset Site Error:	0.00 usft
Survey Program: 175-MWD+HRGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	64.05	22.05	1.00	1.07	15.522	7,827.00	2,173.86	8,123.30				
100.00	100.00	199.46	157.45	1.08	1.63	15.523	7,826.25	2,173.77	8,122.74	8,120.03	2.71	2,996.937	
200.00	200.00	289.25	247.25	1.60	2.41	15.523	7,825.67	2,173.70	8,122.09	8,118.08	4.01	2,026.695	
300.00	300.00	380.55	338.55	2.01	3.12	15.524	7,825.20	2,173.65	8,121.57	8,116.45	5.12	1,584.859	
400.00	400.00	448.00	405.99	2.35	3.30	15.527	7,824.80	2,173.92	8,121.17	8,115.53	5.65	1,438.560	
456.24	456.24	498.15	456.14	2.52	3.39	15.529	7,824.60	2,174.23	8,121.06	8,115.16	5.90	1,375.936	
500.00	500.00	538.00	495.99	2.65	3.46	15.530	7,824.61	2,174.43	8,121.13	8,115.03	6.10	1,331.083	
600.00	600.00	655.62	613.61	2.93	3.74	15.535	7,824.42	2,175.12	8,121.14	8,114.51	6.63	1,225.052	
681.60	681.60	723.62	681.60	3.13	4.02	15.539	7,824.25	2,175.53	8,121.07	8,113.97	7.10	1,144.080	
700.00	700.00	738.94	696.93	3.18	4.08	15.539	7,824.23	2,175.61	8,121.07	8,113.87	7.20	1,127.229	
800.00	800.00	809.00	766.99	3.41	4.37	15.542	7,824.22	2,175.97	8,121.23	8,113.52	7.71	1,052.984	
900.00	900.00	900.00	857.98	3.64	4.55	15.545	7,824.48	2,176.57	8,121.69	8,113.60	8.09	1,004.012	
1,000.00	1,000.00	983.60	941.58	3.85	4.68	15.549	7,824.92	2,177.22	8,122.38	8,113.98	8.41	966.279	
1,100.00	1,100.00	1,087.74	1,045.71	4.05	4.97	15.553	7,825.46	2,178.00	8,123.08	8,114.21	8.87	915.539	
1,200.00	1,200.00	1,222.85	1,180.82	4.24	5.32	15.560	7,825.89	2,179.11	8,123.64	8,114.27	9.37	867.191	
1,300.00	1,300.00	1,361.12	1,319.08	4.43	5.80	15.568	7,825.53	2,180.25	8,123.59	8,113.63	9.97	815.054	
1,400.00	1,400.00	1,480.89	1,438.84	4.61	6.28	15.579	7,824.66	2,181.62	8,123.20	8,112.64	10.56	769.091	
1,500.00	1,500.00	1,581.41	1,539.35	4.78	6.71	15.589	7,823.83	2,182.81	8,122.72	8,111.60	11.12	730.710	
1,524.16	1,524.16	1,605.69	1,563.63	4.84	6.81	125.057	7,823.63	2,183.10	8,122.66	8,111.42	11.24	722.547	
1,600.00	1,599.98	1,636.00	1,593.94	5.03	6.94	125.051	7,823.38	2,183.45	8,123.36	8,111.89	11.47	708.289	
1,629.90	1,629.86	1,636.00	1,593.94	5.06	6.94	125.038	7,823.38	2,183.45	8,124.13	8,112.64	11.49	707.252	
1,700.00	1,699.88	1,716.82	1,674.75	5.14	7.19	125.066	7,823.04	2,184.37	8,125.84	8,114.08	11.76	690.696	
1,800.00	1,799.78	1,772.26	1,730.19	5.31	7.36	125.085	7,823.21	2,184.99	8,129.03	8,116.97	12.06	674.314	
1,900.00	1,899.68	1,825.00	1,782.92	5.50	7.52	125.102	7,823.65	2,185.57	8,132.77	8,120.42	12.35	658.416	
2,000.00	1,999.58	1,906.60	1,864.51	5.70	7.80	125.128	7,824.66	2,186.55	8,136.90	8,124.13	12.77	636.952	
2,100.00	2,099.47	1,984.38	1,942.28	5.91	8.06	125.153	7,825.81	2,187.63	8,141.31	8,128.12	13.19	617.401	
2,200.00	2,199.37	2,073.21	2,031.08	6.14	8.37	125.183	7,827.27	2,189.09	8,145.94	8,132.31	13.63	597.531	
2,300.00	2,299.27	2,168.81	2,126.65	6.37	8.70	125.219	7,828.80	2,191.04	8,150.65	8,136.56	14.10	578.212	
2,400.00	2,399.16	2,247.32	2,205.12	6.61	8.97	125.250	7,830.05	2,192.95	8,155.48	8,140.97	14.51	562.205	
2,500.00	2,499.06	2,316.29	2,274.05	6.86	9.21	125.278	7,831.35	2,194.85	8,160.67	8,145.78	14.88	548.357	
2,600.00	2,598.96	2,392.00	2,349.71	7.12	9.48	125.310	7,833.02	2,197.18	8,166.24	8,150.94	15.30	533.836	
2,700.00	2,698.86	18,344.08	10,542.67	7.38	118.08	-159.268	-192.42	2,217.88	8,166.56	8,090.50	76.06	107.374	
2,800.00	2,798.75	18,343.75	10,542.68	7.65	118.07	-159.276	-192.08	2,217.88	8,071.82	7,995.51	76.31	105.775	
2,900.00	2,898.65	18,343.41	10,542.68	7.92	118.07	-159.283	-191.75	2,217.88	7,977.22	7,900.64	76.57	104.176	
3,000.00	2,998.55	18,343.08	10,542.69	8.20	118.06	-159.291	-191.41	2,217.88	7,882.75	7,805.90	76.85	102.578	
3,100.00	3,098.44	18,342.74	10,542.70	8.48	118.06	-159.298	-191.07	2,217.89	7,788.42	7,711.29	77.13	100.981	
3,200.00	3,198.34	18,342.39	10,542.70	8.77	118.05	-159.306	-190.73	2,217.89	7,694.23	7,616.81	77.42	99.386	
3,300.00	3,298.24	18,342.05	10,542.71	9.05	118.05	-159.313	-190.39	2,217.89	7,600.18	7,522.47	77.72	97.794	
3,400.00	3,398.14	18,341.71	10,542.72	9.35	118.04	-159.321	-190.04	2,217.89	7,506.30	7,428.27	78.03	96.203	
3,500.00	3,498.03	18,341.36	10,542.72	9.64	118.04	-159.328	-189.69	2,217.90	7,412.57	7,334.22	78.34	94.615	
3,600.00	3,597.93	18,341.01	10,542.73	9.94	118.03	-159.336	-189.35	2,217.90	7,319.01	7,240.33	78.67	93.030	
3,700.00	3,697.83	18,340.66	10,542.74	10.23	118.03	-159.344	-189.00	2,217.90	7,225.62	7,146.61	79.01	91.449	
3,800.00	3,797.72	18,340.31	10,542.75	10.53	118.02	-159.352	-188.64	2,217.90	7,132.41	7,053.05	79.36	89.871	
3,900.00	3,897.62	18,339.95	10,542.75	10.84	118.02	-159.359	-188.29	2,217.91	7,039.38	6,959.66	79.72	88.297	
4,000.00	3,997.52	18,339.60	10,542.76	11.14	118.01	-159.367	-187.93	2,217.91	6,946.55	6,866.46	80.10	86.727	
4,100.00	4,097.42	18,339.24	10,542.77	11.45	118.01	-159.375	-187.57	2,217.91	6,853.93	6,773.44	80.48	85.161	
4,200.00	4,197.31	18,338.88	10,542.78	11.75	118.00	-159.383	-187.21	2,217.91	6,761.51	6,680.63	80.88	83.600	
4,300.00	4,297.21	18,338.52	10,542.78	12.06	118.00	-159.391	-186.85	2,217.92	6,669.31	6,588.02	81.29	82.044	
4,400.00	4,397.11	18,338.15	10,542.79	12.37	117.99	-159.399	-186.49	2,217.92	6,577.34	6,495.63	81.71	80.494	
4,500.00	4,497.01	18,337.79	10,542.80	12.68	117.99	-159.407	-186.12	2,217.92	6,485.60	6,403.45	82.15	78.949	
4,600.00	4,596.90	18,337.42	10,542.81	13.00	117.98	-159.415	-185.75	2,217.92	6,394.12	6,311.52	82.60	77.410	
4,700.00	4,696.80	18,337.05	10,542.81	13.31	117.98	-159.423	-185.38	2,217.93	6,302.89	6,219.82	83.07	75.877	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 4 - Cattleman Fed Com 114H - OH / 69918 - Surveys (H&P 656)												Offset Site Error:	0.00 usft
Survey Program: 175-MWD+HRGM												Offset Well Error:	1.00 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,800.00	4,796.70	18,336.68	10,542.82	13.62	117.97	-159.432	-185.01	2,217.93	6,211.93	6,128.39	83.55	74.351	
4,900.00	4,896.59	18,336.30	10,542.83	13.94	117.97	-159.440	-184.64	2,217.93	6,121.26	6,037.21	84.05	72.832	
5,000.00	4,996.49	18,335.92	10,542.84	14.25	117.96	-159.448	-184.26	2,217.93	6,030.88	5,946.32	84.56	71.321	
5,100.00	5,096.39	18,335.55	10,542.84	14.57	117.96	-159.456	-183.88	2,217.94	5,940.81	5,855.71	85.09	69.816	
5,200.00	5,196.29	18,335.17	10,542.85	14.89	117.95	-159.465	-183.50	2,217.94	5,851.06	5,765.41	85.64	68.320	
5,300.00	5,296.18	18,334.78	10,542.86	15.20	117.95	-159.473	-183.12	2,217.94	5,761.64	5,675.43	86.21	66.833	
5,400.00	5,396.08	18,334.40	10,542.87	15.52	117.94	-159.482	-182.73	2,217.95	5,672.59	5,585.79	86.80	65.354	
5,500.00	5,495.98	18,334.01	10,542.88	15.84	117.94	-159.490	-182.35	2,217.95	5,583.90	5,496.49	87.41	63.884	
5,600.00	5,595.87	18,333.62	10,542.88	16.16	117.93	-159.499	-181.96	2,217.95	5,495.60	5,407.56	88.04	62.424	
5,700.00	5,695.77	18,333.23	10,542.89	16.48	117.92	-159.507	-181.57	2,217.95	5,407.70	5,319.02	88.69	60.974	
5,800.00	5,795.67	18,332.84	10,542.90	16.80	117.92	-159.516	-181.17	2,217.96	5,320.24	5,230.88	89.36	59.534	
5,900.00	5,895.57	18,332.44	10,542.91	17.12	117.91	-159.525	-180.78	2,217.96	5,233.22	5,143.16	90.06	58.106	
6,000.00	5,995.46	18,332.04	10,542.92	17.44	117.91	-159.534	-180.38	2,217.96	5,146.68	5,055.89	90.79	56.689	
6,100.00	6,095.36	18,331.64	10,542.93	17.76	117.90	-159.542	-179.98	2,217.97	5,060.63	4,969.09	91.54	55.284	
6,200.00	6,195.26	18,331.24	10,542.93	18.09	117.90	-159.551	-179.57	2,217.97	4,975.11	4,882.79	92.32	53.892	
6,300.00	6,295.16	18,330.83	10,542.94	18.41	117.89	-159.560	-179.17	2,217.97	4,890.13	4,797.01	93.12	52.513	
6,400.00	6,395.05	18,330.42	10,542.95	18.73	117.89	-159.569	-178.76	2,217.98	4,805.73	4,711.77	93.96	51.148	
6,500.00	6,494.95	18,330.01	10,542.96	19.06	117.88	-159.578	-178.35	2,217.98	4,721.94	4,627.12	94.82	49.797	
6,600.00	6,594.85	18,329.60	10,542.97	19.38	117.87	-159.587	-177.94	2,217.98	4,638.79	4,543.07	95.72	48.462	
6,700.00	6,694.74	18,329.19	10,542.98	19.70	117.87	-159.597	-177.52	2,217.99	4,556.32	4,459.67	96.65	47.142	
6,800.00	6,794.64	18,328.77	10,542.99	20.03	117.86	-159.606	-177.11	2,217.99	4,474.57	4,376.95	97.62	45.838	
6,900.00	6,894.54	18,328.35	10,543.00	20.35	117.86	-159.615	-176.69	2,217.99	4,393.57	4,294.95	98.62	44.552	
7,000.00	6,994.44	18,327.93	10,543.00	20.68	117.85	-159.624	-176.26	2,218.00	4,313.36	4,213.71	99.65	43.283	
7,100.00	7,094.33	18,327.50	10,543.01	21.00	117.84	-159.634	-175.84	2,218.00	4,234.00	4,133.27	100.73	42.034	
7,200.00	7,194.23	18,327.07	10,543.02	21.33	117.84	-159.643	-175.41	2,218.00	4,155.53	4,053.69	101.84	40.804	
7,300.00	7,294.13	18,326.64	10,543.03	21.65	117.83	-159.653	-174.98	2,218.01	4,078.00	3,975.01	102.99	39.595	
7,400.00	7,394.02	18,326.21	10,543.04	21.98	117.83	-159.662	-174.55	2,218.01	4,001.47	3,897.29	104.19	38.407	
7,500.00	7,493.92	18,325.78	10,543.05	22.30	117.82	-159.672	-174.12	2,218.01	3,926.00	3,820.58	105.42	37.241	
7,600.00	7,593.82	18,325.34	10,543.06	22.63	117.81	-159.681	-173.68	2,218.02	3,851.64	3,744.94	106.70	36.098	
7,700.00	7,693.72	18,324.90	10,543.07	22.95	117.81	-159.691	-173.24	2,218.02	3,778.47	3,670.45	108.02	34.980	
7,800.00	7,793.61	18,324.46	10,543.08	23.28	117.80	-159.701	-172.79	2,218.02	3,706.55	3,597.17	109.38	33.887	
7,900.00	7,893.51	18,324.01	10,543.09	23.61	117.80	-159.711	-172.35	2,218.03	3,635.95	3,525.17	110.79	32.820	
8,000.00	7,993.41	18,323.56	10,543.10	23.93	117.79	-159.721	-171.90	2,218.03	3,566.77	3,454.53	112.23	31.780	
8,100.00	8,093.31	18,323.11	10,543.11	24.26	117.78	-159.730	-171.45	2,218.03	3,499.07	3,385.35	113.72	30.769	
8,200.00	8,193.20	18,322.66	10,543.12	24.59	117.78	-159.740	-171.00	2,218.04	3,432.95	3,317.70	115.25	29.787	
8,300.00	8,293.10	18,322.20	10,543.13	24.92	117.77	-159.751	-170.54	2,218.04	3,368.51	3,251.69	116.82	28.836	
8,400.00	8,393.00	18,321.74	10,543.14	25.24	117.76	-159.761	-170.08	2,218.05	3,305.83	3,187.41	118.42	27.917	
8,500.00	8,492.89	18,321.28	10,543.15	25.57	117.76	-159.771	-169.62	2,218.05	3,245.02	3,124.97	120.05	27.030	
8,600.00	8,592.79	18,320.81	10,543.16	25.90	117.75	-159.781	-169.15	2,218.05	3,186.19	3,064.48	121.72	26.177	
8,700.00	8,692.69	18,320.34	10,543.17	26.23	117.74	-159.791	-168.68	2,218.06	3,129.46	3,006.05	123.41	25.359	
8,800.00	8,792.59	18,319.87	10,543.18	26.55	117.74	-159.802	-168.21	2,218.06	3,074.93	2,949.81	125.12	24.577	
8,900.00	8,892.48	18,319.40	10,543.19	26.88	117.73	-159.812	-167.74	2,218.06	3,022.72	2,895.88	126.84	23.831	
9,000.00	8,992.38	18,318.92	10,543.20	27.21	117.72	-159.823	-167.26	2,218.07	2,972.96	2,844.40	128.57	23.124	
9,100.00	9,092.28	18,318.44	10,543.21	27.54	117.72	-159.833	-166.78	2,218.07	2,925.78	2,795.49	130.29	22.456	
9,200.00	9,192.17	18,317.96	10,543.22	27.87	117.71	-159.844	-166.30	2,218.08	2,881.29	2,749.29	132.00	21.827	
9,300.00	9,292.07	18,317.47	10,543.23	28.19	117.70	-159.855	-165.81	2,218.08	2,839.63	2,705.93	133.70	21.240	
9,400.00	9,391.97	18,316.98	10,543.24	28.52	117.70	-159.865	-165.32	2,218.09	2,800.92	2,665.57	135.35	20.693	
9,500.00	9,491.87	18,316.49	10,543.25	28.85	117.69	-159.876	-164.83	2,218.09	2,765.29	2,628.32	136.97	20.189	
9,600.00	9,591.76	18,315.99	10,543.26	29.18	117.68	-159.887	-164.34	2,218.09	2,732.85	2,594.32	138.53	19.727	
9,700.00	9,691.66	18,315.50	10,543.27	29.51	117.68	-159.898	-163.84	2,218.10	2,703.73	2,563.70	140.02	19.309	
9,800.00	9,791.56	18,314.99	10,543.28	29.84	117.67	-159.909	-163.33	2,218.10	2,678.02	2,536.59	141.44	18.934	
9,900.00	9,891.45	18,314.49	10,543.29	30.17	117.66	-159.920	-162.83	2,218.11	2,655.84	2,513.08	142.76	18.604	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 4 - Cattleman Fed Com 114H - OH / 69918 - Surveys (H&P 656)													Offset Site Error: 0.00 usft
Survey Program: 175-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,000.00	9,991.35	18,313.98	10,543.30	30.50	117.65	-159.932	-162.32	2,218.11	2,637.26	2,493.28	143.98	18.317	
10,100.00	10,091.25	18,313.47	10,543.31	30.83	117.65	-159.943	-161.81	2,218.12	2,622.36	2,477.28	145.08	18.075	
10,200.00	10,191.15	18,312.95	10,543.33	31.15	117.64	-159.954	-161.29	2,218.12	2,611.21	2,465.15	146.07	17.877	
10,300.00	10,291.04	18,312.43	10,543.34	31.48	117.63	-159.966	-160.78	2,218.13	2,603.86	2,456.94	146.92	17.723	
10,400.00	10,390.94	18,311.91	10,543.35	31.81	117.63	-159.977	-160.25	2,218.13	2,600.34	2,452.70	147.64	17.612	
10,441.72	10,432.62	18,311.69	10,543.35	31.95	117.62	-159.982	-160.03	2,218.13	2,600.00	2,452.10	147.90	17.579 CC, ES	
10,500.00	10,490.84	18,311.39	10,543.36	32.14	117.62	-159.989	-159.73	2,218.14	2,600.66	2,452.43	148.22	17.546	
10,600.00	10,590.74	18,310.86	10,543.37	32.47	117.61	-160.000	-159.20	2,218.14	2,604.82	2,456.15	148.66	17.521 SF	
10,700.00	10,690.63	18,310.32	10,543.38	32.80	117.60	-160.012	-158.67	2,218.14	2,612.80	2,463.83	148.97	17.540	
10,800.00	10,790.53	18,309.79	10,543.39	33.13	117.60	-160.024	-158.13	2,218.15	2,624.57	2,475.44	149.13	17.599	
10,900.00	10,890.43	18,309.25	10,543.41	33.46	117.59	-160.036	-157.59	2,218.15	2,640.08	2,490.92	149.16	17.700	
11,000.00	10,990.32	18,308.71	10,543.42	33.79	117.58	-160.048	-157.05	2,218.16	2,659.26	2,510.20	149.06	17.840	
11,100.00	11,090.22	18,308.16	10,543.43	34.12	117.57	-160.060	-156.50	2,218.16	2,682.04	2,533.19	148.85	18.018	
11,200.00	11,190.12	18,307.61	10,543.44	34.45	117.57	-160.072	-155.95	2,218.17	2,708.32	2,559.79	148.53	18.234	
11,300.00	11,290.02	18,307.05	10,543.45	34.78	117.56	-160.084	-155.40	2,218.18	2,738.00	2,589.89	148.11	18.487	
11,400.00	11,389.91	18,306.50	10,543.47	35.11	117.55	-160.097	-154.84	2,218.18	2,770.97	2,623.38	147.60	18.774	
11,444.32	11,434.18	18,306.25	10,543.47	35.25	117.55	-160.102	-154.59	2,218.18	2,786.61	2,639.27	147.34	18.913	
11,500.00	11,489.83	18,305.77	10,543.48	35.42	117.54	-160.258	-154.12	2,218.19	2,806.65	2,659.67	146.99	19.095	
11,574.22	11,564.04	18,304.64	10,543.51	35.53	117.52	90.060	-152.98	2,218.20	2,833.38	2,687.01	146.37	19.357	
11,600.00	11,589.82	18,304.14	10,543.52	35.53	117.52	90.049	-152.49	2,218.20	2,842.77	2,696.65	146.12	19.455	
11,700.00	11,689.82	18,302.22	10,543.56	35.54	117.49	90.008	-150.56	2,218.22	2,881.07	2,735.96	145.11	19.854	
11,800.00	11,789.82	18,295.00	10,543.72	35.56	117.39	89.851	-143.35	2,218.29	2,922.30	2,778.28	144.02	20.291	
11,900.00	11,889.82	18,295.00	10,543.72	35.58	117.39	89.851	-143.35	2,218.29	2,966.32	2,823.35	142.98	20.747	
12,000.00	11,989.82	18,295.00	10,543.72	35.60	117.39	89.851	-143.35	2,218.29	3,013.02	2,871.10	141.92	21.231	
12,074.22	12,064.04	18,295.00	10,543.72	35.61	117.39	89.851	-143.35	2,218.29	3,049.34	2,908.22	141.12	21.608	
12,100.00	12,089.81	18,295.00	10,543.72	35.62	117.39	-88.083	-143.35	2,218.29	3,062.27	2,921.42	140.85	21.742	
12,150.00	12,139.60	18,295.00	10,543.72	35.69	117.39	-85.138	-143.35	2,218.29	3,087.68	2,947.36	140.32	22.005	
12,200.00	12,188.82	18,304.58	10,543.51	35.77	117.52	-81.961	-152.93	2,218.20	3,113.35	2,973.46	139.89	22.255	
12,250.00	12,237.08	18,315.20	10,543.28	35.86	117.67	-78.788	-163.54	2,218.10	3,139.07	2,999.58	139.49	22.504	
12,300.00	12,284.02	18,329.58	10,542.97	35.96	117.87	-75.613	-177.92	2,217.98	3,164.59	3,025.44	139.14	22.743	
12,350.00	12,329.30	18,347.64	10,542.60	36.06	118.13	-72.494	-195.97	2,217.85	3,189.66	3,050.81	138.85	22.971	
12,400.00	12,372.55	18,369.26	10,542.17	36.17	118.43	-69.484	-217.59	2,217.73	3,214.05	3,075.43	138.63	23.185	
12,450.00	12,413.46	18,484.00	10,542.40	36.28	120.04	-65.343	-332.31	2,217.35	3,237.38	3,098.05	139.33	23.236	
12,500.00	12,451.70	18,517.87	10,543.43	36.40	120.51	-62.773	-366.17	2,217.24	3,258.71	3,119.42	139.30	23.394	
12,550.00	12,487.00	18,551.24	10,544.38	36.51	120.98	-60.486	-399.52	2,217.13	3,278.53	3,139.22	139.31	23.535	
12,600.00	12,519.08	18,587.96	10,545.37	36.63	121.50	-58.444	-436.23	2,217.00	3,296.61	3,157.22	139.39	23.650	
12,650.00	12,547.69	18,629.68	10,546.47	36.75	122.09	-56.647	-477.94	2,216.85	3,312.73	3,173.16	139.57	23.735	
12,700.00	12,572.62	18,673.64	10,547.63	36.86	122.70	-55.126	-521.88	2,216.70	3,326.69	3,186.87	139.82	23.793	
12,750.00	12,593.68	18,705.00	10,548.45	36.99	123.15	-53.958	-553.23	2,216.59	3,338.37	3,198.36	140.01	23.844	
12,800.00	12,610.72	18,705.00	10,548.45	37.11	123.15	-53.159	-553.23	2,216.59	3,348.11	3,208.17	139.94	23.926	
12,850.00	12,623.59	18,705.00	10,548.45	37.23	123.15	-52.522	-553.23	2,216.59	3,356.00	3,216.09	139.90	23.988	
12,900.00	12,632.20	18,705.00	10,548.45	37.36	123.15	-52.044	-553.23	2,216.59	3,361.99	3,222.09	139.90	24.032	
12,950.00	12,636.49	18,705.00	10,548.45	37.49	123.15	-51.724	-553.23	2,216.59	3,366.04	3,226.12	139.92	24.057	
12,974.22	12,637.00	18,705.00	10,548.45	37.55	123.15	-51.625	-553.23	2,216.59	3,367.31	3,227.38	139.93	24.065	
13,000.00	12,637.00	18,705.00	10,548.45	37.62	123.15	-51.625	-553.23	2,216.59	3,368.51	3,228.58	139.93	24.074	
13,100.00	12,637.00	18,705.00	10,548.45	37.92	123.15	-51.625	-553.23	2,216.59	3,375.01	3,235.13	139.88	24.127	
13,200.00	12,637.00	18,705.00	10,548.45	38.28	123.15	-51.625	-553.23	2,216.59	3,384.46	3,244.69	139.77	24.214	
13,300.00	12,637.00	18,705.00	10,548.45	38.69	123.15	-51.625	-553.23	2,216.59	3,396.83	3,257.24	139.59	24.334	
13,400.00	12,637.00	18,705.00	10,548.45	39.15	123.15	-51.625	-553.23	2,216.59	3,412.08	3,272.74	139.34	24.487	
13,500.00	12,637.00	18,705.00	10,548.45	39.66	123.15	-51.625	-553.23	2,216.59	3,430.19	3,291.16	139.02	24.673	
13,600.00	12,637.00	18,705.00	10,548.45	40.23	123.15	-51.625	-553.23	2,216.59	3,451.10	3,312.46	138.64	24.892	
13,700.00	12,637.00	18,705.00	10,548.45	40.84	123.15	-51.625	-553.23	2,216.59	3,474.76	3,336.56	138.20	25.144	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 4 - Cattleman Fed Com 114H - OH / 69918 - Surveys (H&P 656)												Offset Site Error:	0.00 usft
Survey Program: 175-MWD+HRGM												Offset Well Error:	1.00 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,800.00	12,637.00	18,705.00	10,548.45	41.49	123.15	-51.625	-553.23	2,216.59	3,501.12	3,363.42	137.69	25.427	
13,900.00	12,637.00	18,705.00	10,548.45	42.20	123.15	-51.625	-553.23	2,216.59	3,530.11	3,392.98	137.13	25.742	
14,000.00	12,637.00	18,705.00	10,548.45	42.94	123.15	-51.625	-553.23	2,216.59	3,561.68	3,425.16	136.52	26.089	
14,100.00	12,637.00	18,705.00	10,548.45	43.73	123.15	-51.625	-553.23	2,216.59	3,595.75	3,459.89	135.86	26.467	
14,200.00	12,637.00	18,705.00	10,548.45	44.55	123.15	-51.625	-553.23	2,216.59	3,632.26	3,497.10	135.15	26.875	
14,300.00	12,637.00	18,705.00	10,548.45	45.41	123.15	-51.625	-553.23	2,216.59	3,671.13	3,536.72	134.41	27.313	
14,400.00	12,637.00	18,705.00	10,548.45	46.30	123.15	-51.625	-553.23	2,216.59	3,712.28	3,578.65	133.63	27.780	
14,500.00	12,637.00	18,705.00	10,548.45	47.23	123.15	-51.625	-553.23	2,216.59	3,755.65	3,622.83	132.82	28.277	
14,600.00	12,637.00	18,705.00	10,548.45	48.18	123.15	-51.625	-553.23	2,216.59	3,801.16	3,669.18	131.98	28.801	
14,700.00	12,637.00	18,705.00	10,548.45	49.16	123.15	-51.625	-553.23	2,216.59	3,848.72	3,717.61	131.12	29.353	
14,800.00	12,637.00	18,705.00	10,548.45	50.17	123.15	-51.625	-553.23	2,216.59	3,898.28	3,768.04	130.23	29.933	
14,900.00	12,637.00	18,705.00	10,548.45	51.19	123.15	-51.625	-553.23	2,216.59	3,949.74	3,820.40	129.33	30.539	
15,000.00	12,637.00	18,705.00	10,548.45	52.25	123.15	-51.625	-553.23	2,216.59	4,003.04	3,874.61	128.42	31.171	
15,100.00	12,637.00	18,705.00	10,548.45	53.32	123.15	-51.625	-553.23	2,216.59	4,058.10	3,930.60	127.50	31.828	
15,200.00	12,637.00	18,705.00	10,548.45	54.41	123.15	-51.625	-553.23	2,216.59	4,114.86	3,988.28	126.57	32.509	
15,300.00	12,637.00	18,705.00	10,548.45	55.51	123.15	-51.625	-553.23	2,216.59	4,173.24	4,047.60	125.64	33.215	
15,400.00	12,637.00	18,705.00	10,548.45	56.64	123.15	-51.625	-553.23	2,216.59	4,233.18	4,108.47	124.71	33.944	
15,500.00	12,637.00	18,705.00	10,548.45	57.78	123.15	-51.625	-553.23	2,216.59	4,294.61	4,170.83	123.78	34.695	
15,600.00	12,637.00	18,705.00	10,548.45	58.93	123.15	-51.625	-553.23	2,216.59	4,357.47	4,234.62	122.85	35.469	
15,700.00	12,637.00	18,705.00	10,548.45	60.10	123.15	-51.625	-553.23	2,216.59	4,421.70	4,299.77	121.93	36.264	
15,800.00	12,637.00	18,705.00	10,548.45	61.28	123.15	-51.625	-553.23	2,216.59	4,487.24	4,366.22	121.02	37.079	
15,900.00	12,637.00	18,705.00	10,548.45	62.47	123.15	-51.625	-553.23	2,216.59	4,554.03	4,433.92	120.11	37.915	
16,000.00	12,637.00	18,705.00	10,548.45	63.67	123.15	-51.625	-553.23	2,216.59	4,622.02	4,502.80	119.22	38.770	
16,100.00	12,637.00	18,705.00	10,548.45	64.88	123.15	-51.625	-553.23	2,216.59	4,691.15	4,572.82	118.33	39.644	
16,200.00	12,637.00	18,705.00	10,548.45	66.11	123.15	-51.625	-553.23	2,216.59	4,761.38	4,643.92	117.46	40.536	
16,300.00	12,637.00	18,705.00	10,548.45	67.34	123.15	-51.625	-553.23	2,216.59	4,832.67	4,716.06	116.60	41.446	
16,400.00	12,637.00	18,705.00	10,548.45	68.58	123.15	-51.625	-553.23	2,216.59	4,904.95	4,789.19	115.76	42.373	
16,500.00	12,637.00	18,705.00	10,548.45	69.82	123.15	-51.625	-553.23	2,216.59	4,978.19	4,863.27	114.93	43.316	
16,600.00	12,637.00	18,705.00	10,548.45	71.08	123.15	-51.625	-553.23	2,216.59	5,052.35	4,938.24	114.11	44.275	
16,700.00	12,637.00	18,705.00	10,548.45	72.34	123.15	-51.625	-553.23	2,216.59	5,127.39	5,014.08	113.32	45.249	
16,800.00	12,637.00	18,705.00	10,548.45	73.61	123.15	-51.625	-553.23	2,216.59	5,203.27	5,090.74	112.53	46.238	
16,900.00	12,637.00	18,705.00	10,548.45	74.88	123.15	-51.625	-553.23	2,216.59	5,279.95	5,168.18	111.77	47.240	
17,000.00	12,637.00	18,705.00	10,548.45	76.16	123.15	-51.625	-553.23	2,216.59	5,357.40	5,246.38	111.02	48.257	
17,100.00	12,637.00	18,705.00	10,548.45	77.45	123.15	-51.625	-553.23	2,216.59	5,435.59	5,325.30	110.29	49.286	
17,200.00	12,637.00	18,705.00	10,548.45	78.74	123.15	-51.625	-553.23	2,216.59	5,514.48	5,404.91	109.57	50.328	
17,300.00	12,637.00	18,705.00	10,548.45	80.04	123.15	-51.625	-553.23	2,216.59	5,594.05	5,485.18	108.87	51.382	
17,400.00	12,637.00	18,705.00	10,548.45	81.34	123.15	-51.625	-553.23	2,216.59	5,674.26	5,566.07	108.19	52.447	
17,500.00	12,637.00	18,705.00	10,548.45	82.65	123.15	-51.625	-553.23	2,216.59	5,755.10	5,647.57	107.53	53.523	
17,600.00	12,637.00	18,705.00	10,548.45	83.96	123.15	-51.625	-553.23	2,216.59	5,836.52	5,729.65	106.88	54.609	
17,700.00	12,637.00	18,705.00	10,548.45	85.27	123.15	-51.625	-553.23	2,216.59	5,918.52	5,812.27	106.25	55.706	
17,800.00	12,637.00	18,705.00	10,548.45	86.59	123.15	-51.625	-553.23	2,216.59	6,001.06	5,895.43	105.63	56.812	
17,900.00	12,637.00	18,705.00	10,548.45	87.91	123.15	-51.625	-553.23	2,216.59	6,084.13	5,979.10	105.03	57.927	
18,000.00	12,637.00	18,705.00	10,548.45	89.24	123.15	-51.625	-553.23	2,216.59	6,167.70	6,063.25	104.45	59.051	
18,100.00	12,637.00	18,705.00	10,548.45	90.57	123.15	-51.625	-553.23	2,216.59	6,251.75	6,147.87	103.88	60.183	
18,200.00	12,637.00	18,705.00	10,548.45	91.90	123.15	-51.625	-553.23	2,216.59	6,336.26	6,232.94	103.33	61.322	
18,300.00	12,637.00	18,705.00	10,548.45	93.24	123.15	-51.625	-553.23	2,216.59	6,421.22	6,318.43	102.79	62.469	
18,400.00	12,637.00	18,705.00	10,548.45	94.58	123.15	-51.625	-553.23	2,216.59	6,506.61	6,404.34	102.27	63.623	
18,500.00	12,637.00	18,705.00	10,548.45	95.92	123.15	-51.625	-553.23	2,216.59	6,592.41	6,490.65	101.76	64.783	
18,600.00	12,637.00	18,705.00	10,548.45	97.26	123.15	-51.625	-553.23	2,216.59	6,678.60	6,577.34	101.27	65.950	
18,700.00	12,637.00	18,705.00	10,548.45	98.61	123.15	-51.625	-553.23	2,216.59	6,765.18	6,664.39	100.79	67.122	
18,800.00	12,637.00	18,705.00	10,548.45	99.96	123.15	-51.625	-553.23	2,216.59	6,852.12	6,751.79	100.32	68.300	
18,900.00	12,637.00	18,705.00	10,548.45	101.31	123.15	-51.625	-553.23	2,216.59	6,939.41	6,839.53	99.87	69.483	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 4 - Cattleman Fed Com 114H - OH / 69918 - Surveys (H&P 656)												Offset Site Error:	0.00 usft	
Survey Program:		175-MWD+HRGM		Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,000.00	12,637.00	18,705.00	10,548.45	102.67	123.15	-51.625	-553.23	2,216.59	7,027.04	6,927.60	99.43	70.670		
19,100.00	12,637.00	18,705.00	10,548.45	104.02	123.15	-51.625	-553.23	2,216.59	7,114.99	7,015.98	99.01	71.862		
19,200.00	12,637.00	18,705.00	10,548.45	105.38	123.15	-51.625	-553.23	2,216.59	7,203.26	7,104.67	98.60	73.058		
19,300.00	12,637.00	18,705.00	10,548.45	106.74	123.15	-51.625	-553.23	2,216.59	7,291.84	7,193.64	98.20	74.258		
19,400.00	12,637.00	18,705.00	10,548.45	108.11	123.15	-51.625	-553.23	2,216.59	7,380.70	7,282.89	97.81	75.461		
19,500.00	12,637.00	18,705.00	10,548.45	109.47	123.15	-51.625	-553.23	2,216.59	7,469.85	7,372.41	97.43	76.667		
19,600.00	12,637.00	18,705.00	10,548.45	110.84	123.15	-51.625	-553.23	2,216.59	7,559.26	7,462.20	97.07	77.876		
19,700.00	12,637.00	18,705.00	10,548.45	112.20	123.15	-51.625	-553.23	2,216.59	7,648.94	7,552.23	96.71	79.088		
19,800.00	12,637.00	18,705.00	10,548.45	113.57	123.15	-51.625	-553.23	2,216.59	7,738.88	7,642.51	96.37	80.302		
19,900.00	12,637.00	18,705.00	10,548.45	114.95	123.15	-51.625	-553.23	2,216.59	7,829.05	7,733.01	96.04	81.517		
20,000.00	12,637.00	18,705.00	10,548.45	116.32	123.15	-51.625	-553.23	2,216.59	7,919.47	7,823.75	95.72	82.735		
20,100.00	12,637.00	18,705.00	10,548.45	117.69	123.15	-51.625	-553.23	2,216.59	8,010.11	7,914.70	95.41	83.954		
20,200.00	12,637.00	18,705.00	10,548.45	119.07	123.15	-51.625	-553.23	2,216.59	8,100.97	8,005.86	95.11	85.174		
20,300.00	12,637.00	18,705.00	10,548.45	120.45	123.15	-51.625	-553.23	2,216.59	8,192.04	8,097.22	94.82	86.396		
20,400.00	12,637.00	18,705.00	10,548.45	121.83	123.15	-51.625	-553.23	2,216.59	8,283.32	8,188.79	94.54	87.618		
20,500.00	12,637.00	18,705.00	10,548.45	123.21	123.15	-51.625	-553.23	2,216.59	8,374.80	8,280.54	94.27	88.840		
20,600.00	12,637.00	18,705.00	10,548.45	124.59	123.15	-51.625	-553.23	2,216.59	8,466.48	8,372.47	94.01	90.063		
20,700.00	12,637.00	18,705.00	10,548.45	125.97	123.15	-51.625	-553.23	2,216.59	8,558.33	8,464.58	93.75	91.287		
20,800.00	12,637.00	18,705.00	10,548.45	127.35	123.15	-51.625	-553.23	2,216.59	8,650.37	8,556.87	93.51	92.510		
20,900.00	12,637.00	18,705.00	10,548.45	128.74	123.15	-51.625	-553.23	2,216.59	8,742.59	8,649.32	93.27	93.732		
21,000.00	12,637.00	18,705.00	10,548.45	130.12	123.15	-51.625	-553.23	2,216.59	8,834.97	8,741.93	93.04	94.955		
21,100.00	12,637.00	18,705.00	10,548.45	131.51	123.15	-51.625	-553.23	2,216.59	8,927.52	8,834.69	92.82	96.176		
21,200.00	12,637.00	18,705.00	10,548.45	132.90	123.15	-51.625	-553.23	2,216.59	9,020.22	8,927.61	92.61	97.397		
21,300.00	12,637.00	18,705.00	10,548.45	134.29	123.15	-51.625	-553.23	2,216.59	9,113.09	9,020.68	92.41	98.617		
21,400.00	12,637.00	18,705.00	10,548.45	135.68	123.15	-51.625	-553.23	2,216.59	9,206.10	9,113.88	92.21	99.836		
21,500.00	12,637.00	18,705.00	10,548.45	137.07	123.15	-51.625	-553.23	2,216.59	9,299.25	9,207.23	92.02	101.053		
21,600.00	12,637.00	18,705.00	10,548.45	138.46	123.15	-51.625	-553.23	2,216.59	9,392.55	9,300.71	91.84	102.269		
21,700.00	12,637.00	18,705.00	10,548.45	139.85	123.15	-51.625	-553.23	2,216.59	9,485.98	9,394.31	91.67	103.483		
21,800.00	12,637.00	18,705.00	10,548.45	141.25	123.15	-51.625	-553.23	2,216.59	9,579.55	9,488.05	91.50	104.696		
21,900.00	12,637.00	18,705.00	10,548.45	142.64	123.15	-51.625	-553.23	2,216.59	9,673.24	9,581.90	91.34	105.906		
22,000.00	12,637.00	18,705.00	10,548.45	144.04	123.15	-51.625	-553.23	2,216.59	9,767.06	9,675.88	91.18	107.115		
22,100.00	12,637.00	18,705.00	10,548.45	145.43	123.15	-51.625	-553.23	2,216.59	9,861.00	9,769.97	91.03	108.321		
22,200.00	12,637.00	18,705.00	10,548.45	146.83	123.15	-51.625	-553.23	2,216.59	9,955.06	9,864.17	90.89	109.525		
22,300.00	12,637.00	18,705.00	10,548.45	148.23	123.15	-51.625	-553.23	2,216.59	10,049.23	9,958.48	90.76	110.727		
22,400.00	12,637.00	18,705.00	10,548.45	149.63	123.15	-51.625	-553.23	2,216.59	10,143.52	10,052.89	90.63	111.926		
22,500.00	12,637.00	18,705.00	10,548.45	151.02	123.15	-51.625	-553.23	2,216.59	10,237.91	10,147.41	90.50	113.122		
22,600.00	12,637.00	18,705.00	10,548.45	152.42	123.15	-51.625	-553.23	2,216.59	10,332.41	10,242.02	90.38	114.316		
22,700.00	12,637.00	18,705.00	10,548.45	153.83	123.15	-51.625	-553.23	2,216.59	10,427.01	10,336.74	90.27	115.507		
22,800.00	12,637.00	18,705.00	10,548.45	155.23	123.15	-51.625	-553.23	2,216.59	10,521.71	10,431.55	90.16	116.694		
22,900.00	12,637.00	18,705.00	10,548.45	156.63	123.15	-51.625	-553.23	2,216.59	10,616.51	10,526.45	90.06	117.879		
23,000.00	12,637.00	18,705.00	10,548.45	158.03	123.15	-51.625	-553.23	2,216.59	10,711.40	10,621.44	89.97	119.061		
23,100.00	12,637.00	18,705.00	10,548.45	159.43	123.15	-51.625	-553.23	2,216.59	10,806.39	10,716.52	89.87	120.239		
23,124.22	12,637.00	18,705.00	10,548.45	159.77	123.15	-51.625	-553.23	2,216.59	10,829.41	10,739.56	89.85	120.524		

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 4 - Cattleman Fed Com 204H - OH / 69917 - Surveys H&P 656)													Offset Site Error: 0.00 usft
Survey Program: 175-MWD+HRGM													Offset Well Error: 1.00 usft
Rule Assigned:													Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	97.17	56.17	1.00	1.15	15.726	7,826.94	2,203.84	8,131.49				
100.00	100.00	222.05	181.04	1.08	1.77	15.728	7,825.61	2,203.86	8,130.42	8,127.57	2.85	2,853.628	
200.00	200.00	292.12	251.11	1.60	2.31	15.729	7,825.05	2,203.73	8,129.61	8,125.70	3.90	2,082.633	
300.00	300.00	358.00	316.99	2.01	2.84	15.727	7,824.81	2,203.48	8,129.16	8,124.31	4.85	1,674.665	
389.39	389.39	430.40	389.39	2.32	3.07	15.726	7,824.75	2,203.33	8,129.04	8,123.65	5.39	1,508.732	
400.00	400.00	438.46	397.44	2.35	3.10	15.726	7,824.75	2,203.34	8,129.04	8,123.59	5.45	1,491.421	
500.00	500.00	514.37	473.36	2.65	3.34	15.729	7,824.80	2,203.66	8,129.22	8,123.23	5.99	1,356.346	
600.00	600.00	608.27	567.25	2.93	3.77	15.733	7,824.97	2,204.43	8,129.62	8,122.92	6.70	1,213.325	
700.00	700.00	710.28	669.26	3.18	4.31	15.738	7,825.19	2,205.13	8,130.01	8,122.54	7.48	1,087.168	
800.00	800.00	797.99	756.96	3.41	4.50	15.742	7,825.41	2,205.80	8,130.46	8,122.57	7.89	1,029.952	
900.00	900.00	894.73	853.70	3.64	4.81	15.747	7,825.72	2,206.67	8,131.02	8,122.61	8.41	966.732	
1,000.00	1,000.00	990.00	948.97	3.85	5.13	15.750	7,826.15	2,207.19	8,131.60	8,122.67	8.93	910.774	
1,100.00	1,100.00	1,067.04	1,026.01	4.05	5.37	15.750	7,826.69	2,207.41	8,132.35	8,122.99	9.36	868.469	
1,200.00	1,200.00	1,145.00	1,103.96	4.24	5.61	15.749	7,827.53	2,207.50	8,133.42	8,123.62	9.80	830.038	
1,300.00	1,300.00	1,239.65	1,198.61	4.43	5.93	15.745	7,828.83	2,207.23	8,134.66	8,124.33	10.33	787.294	
1,400.00	1,400.00	2,095.00	2,052.02	4.61	15.84	15.854	7,801.12	2,215.42	8,135.77	8,119.17	16.59	490.276	
1,500.00	1,500.00	2,095.00	2,052.02	4.78	15.84	15.854	7,801.12	2,215.42	8,128.36	8,111.59	16.78	484.433	
1,600.00	1,599.98	2,095.00	2,052.02	5.03	15.84	125.403	7,801.12	2,215.42	8,123.19	8,106.26	16.94	479.659	
1,629.90	1,629.86	2,095.00	2,052.02	5.06	15.84	125.418	7,801.12	2,215.42	8,122.28	8,105.32	16.96	479.033	
1,700.00	1,699.88	2,095.00	2,052.02	5.14	15.84	125.418	7,801.12	2,215.42	8,120.78	8,103.75	17.03	476.931	
1,800.00	1,799.78	2,179.24	2,135.81	5.31	16.27	125.487	7,794.18	2,220.46	8,117.43	8,098.99	18.44	440.263	
1,900.00	1,899.68	2,198.46	2,154.93	5.50	16.38	125.505	7,793.00	2,222.03	8,116.42	8,097.52	18.89	429.590	
1,949.76	1,949.39	2,208.01	2,164.43	5.60	16.44	125.514	7,792.48	2,222.87	8,116.29	8,097.16	19.12	424.463	
2,000.00	1,999.58	2,285.00	2,240.93	5.70	16.96	125.595	7,789.61	2,231.02	8,117.85	8,097.47	20.38	398.420	
2,027.20	2,026.75	2,285.00	2,240.93	5.76	16.96	125.595	7,789.61	2,231.02	8,117.80	8,097.38	20.42	397.511	
2,100.00	2,099.47	2,285.00	2,240.93	5.91	16.96	125.595	7,789.61	2,231.02	8,118.13	8,097.58	20.55	395.125	
2,200.00	2,199.37	2,285.00	2,240.93	6.14	16.96	125.595	7,789.61	2,231.02	8,119.64	8,098.92	20.72	391.941	
2,300.00	2,299.27	2,285.00	2,240.93	6.37	16.96	125.595	7,789.61	2,231.02	8,122.38	8,101.50	20.89	388.871	
2,400.00	2,399.16	2,285.00	2,240.93	6.61	16.96	125.595	7,789.61	2,231.02	8,126.36	8,105.30	21.06	385.917	
2,500.00	2,499.06	2,285.00	2,240.93	6.86	16.96	125.595	7,789.61	2,231.02	8,131.56	8,110.33	21.23	383.080	
2,600.00	2,598.96	2,366.10	2,321.52	7.12	17.56	125.678	7,788.98	2,240.05	8,136.77	8,113.91	22.86	355.972	
2,700.00	2,698.86	2,399.00	2,354.26	7.38	17.87	125.708	7,789.36	2,243.21	8,143.23	8,119.60	23.63	344.616	
2,800.00	2,798.75	2,473.00	2,427.98	7.65	18.74	125.763	7,791.54	2,249.26	8,150.83	8,125.66	25.17	323.817	
2,900.00	2,898.65	2,473.00	2,427.98	7.92	18.74	125.763	7,791.54	2,249.26	8,158.64	8,133.30	25.34	321.976	
3,000.00	2,998.55	2,539.10	2,493.84	8.20	18.92	125.808	7,794.30	2,254.17	8,167.36	8,141.63	25.73	317.420	
3,100.00	3,098.44	2,626.42	2,580.80	8.48	19.17	125.870	7,797.92	2,261.15	8,176.27	8,150.08	26.20	312.116	
3,200.00	3,198.34	2,780.38	2,734.05	8.77	19.45	125.991	7,803.61	2,274.86	8,185.10	8,158.42	26.68	306.835	
3,300.00	3,298.24	2,952.13	2,904.87	9.05	19.71	126.142	7,807.72	2,292.08	8,192.94	8,165.82	27.12	302.062	
3,400.00	3,398.14	19,175.39	10,930.70	9.35	127.44	-153.460	-545.81	2,866.58	8,104.39	8,024.05	80.33	100.883	
3,500.00	3,498.03	19,171.42	10,930.92	9.64	127.39	-153.528	-541.86	2,866.71	8,013.09	7,932.46	80.63	99.377	
3,600.00	3,597.93	19,167.45	10,931.15	9.94	127.34	-153.597	-537.90	2,866.84	7,922.01	7,841.07	80.94	97.871	
3,700.00	3,697.83	19,163.49	10,931.37	10.23	127.28	-153.666	-533.94	2,866.96	7,831.15	7,749.88	81.26	96.367	
3,800.00	3,797.72	19,159.52	10,931.59	10.53	127.23	-153.735	-529.98	2,867.09	7,740.50	7,658.91	81.60	94.864	
3,900.00	3,897.62	19,155.55	10,931.82	10.84	127.18	-153.804	-526.02	2,867.22	7,650.09	7,568.15	81.94	93.362	
4,000.00	3,997.52	19,151.58	10,932.04	11.14	127.13	-153.873	-522.06	2,867.34	7,559.92	7,477.62	82.30	91.862	
4,100.00	4,097.42	19,147.62	10,932.26	11.45	127.07	-153.941	-518.10	2,867.47	7,469.99	7,387.33	82.67	90.365	
4,200.00	4,197.31	19,143.65	10,932.48	11.75	127.02	-154.010	-514.14	2,867.60	7,380.33	7,297.28	83.05	88.869	
4,300.00	4,297.21	19,139.68	10,932.71	12.06	126.97	-154.079	-510.18	2,867.72	7,290.92	7,207.48	83.44	87.377	
4,400.00	4,397.11	19,135.71	10,932.93	12.37	126.91	-154.148	-506.22	2,867.85	7,201.80	7,117.95	83.85	85.888	
4,500.00	4,497.01	19,131.75	10,933.15	12.68	126.86	-154.217	-502.26	2,867.98	7,112.96	7,028.69	84.28	84.402	
4,600.00	4,596.90	19,127.78	10,933.38	13.00	126.81	-154.286	-498.30	2,868.10	7,024.42	6,939.71	84.71	82.920	
4,700.00	4,696.80	19,123.81	10,933.60	13.31	126.75	-154.355	-494.34	2,868.23	6,936.19	6,851.03	85.17	81.442	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 4 - Cattleman Fed Com 204H - OH / 69917 - Surveys H&P 656)													Offset Site Error:	0.00 usft	
Survey Program:		175-MWD+HRGM		Offset		Semi Maior Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
4,800.00	4,796.70	19,119.73	10,933.83	13.62	126.70	-154.426	-490.27	2,868.36	6,848.28	6,762.65	85.64	79.969			
4,900.00	4,896.59	19,115.52	10,934.07	13.94	126.64	-154.499	-486.07	2,868.49	6,760.71	6,674.59	86.12	78.503			
5,000.00	4,996.49	19,111.27	10,934.31	14.25	126.59	-154.573	-481.83	2,868.62	6,673.48	6,586.86	86.62	77.041			
5,100.00	5,096.39	19,106.99	10,934.55	14.57	126.53	-154.647	-477.55	2,868.75	6,586.61	6,499.47	87.14	75.586			
5,200.00	5,196.29	19,102.66	10,934.79	14.89	126.47	-154.723	-473.24	2,868.89	6,500.12	6,412.44	87.68	74.137			
5,300.00	5,296.18	18,773.00	10,949.60	15.20	122.01	-160.479	-144.05	2,868.53	6,413.94	6,328.38	85.56	74.968			
5,400.00	5,396.08	18,773.00	10,949.60	15.52	122.01	-160.479	-144.05	2,868.53	6,328.09	6,241.92	86.16	73.443			
5,500.00	5,495.98	18,773.00	10,949.60	15.84	122.01	-160.479	-144.05	2,868.53	6,242.66	6,155.87	86.79	71.928			
5,600.00	5,595.87	18,773.00	10,949.60	16.16	122.01	-160.479	-144.05	2,868.53	6,157.67	6,070.23	87.44	70.423			
5,700.00	5,695.77	18,773.00	10,949.60	16.48	122.01	-160.479	-144.05	2,868.53	6,073.13	5,985.03	88.11	68.928			
5,800.00	5,795.67	18,741.19	10,950.59	16.80	121.58	-161.037	-112.27	2,867.35	5,988.99	5,900.47	88.52	67.654			
5,900.00	5,895.57	18,739.41	10,950.65	17.12	121.55	-161.068	-110.50	2,867.29	5,905.42	5,816.20	89.22	66.187			
6,000.00	5,995.46	18,737.63	10,950.71	17.44	121.53	-161.099	-108.72	2,867.22	5,822.37	5,732.42	89.95	64.731			
6,100.00	6,095.36	18,789.90	10,948.84	17.76	122.24	-160.183	-160.92	2,869.26	5,739.97	5,648.80	91.17	62.959			
6,200.00	6,195.26	18,771.21	10,949.67	18.09	121.98	-160.511	-142.26	2,868.46	5,658.04	5,566.25	91.80	61.637			
6,300.00	6,295.16	18,757.01	10,950.25	18.41	121.79	-160.759	-128.09	2,867.88	5,576.69	5,484.20	92.49	60.297			
6,400.00	6,395.05	18,745.86	10,950.67	18.73	121.64	-160.955	-116.95	2,867.43	5,495.95	5,402.72	93.23	58.949			
6,500.00	6,494.95	18,736.86	10,950.98	19.06	121.52	-161.113	-107.96	2,867.08	5,415.85	5,321.82	94.03	57.600			
6,600.00	6,594.85	18,729.46	10,951.22	19.38	121.42	-161.243	-100.57	2,866.80	5,336.41	5,241.55	94.86	56.256			
6,700.00	6,694.74	18,723.25	10,951.42	19.70	121.33	-161.351	-94.37	2,866.57	5,257.68	5,161.94	95.74	54.919			
6,800.00	6,794.64	18,717.98	10,951.58	20.03	121.26	-161.444	-89.11	2,866.38	5,179.68	5,083.03	96.65	53.592			
6,900.00	6,894.54	18,713.44	10,951.71	20.35	121.20	-161.523	-84.57	2,866.22	5,102.44	5,004.84	97.60	52.278			
7,000.00	6,994.44	18,709.50	10,951.82	20.68	121.15	-161.593	-80.63	2,866.08	5,026.01	4,927.41	98.59	50.978			
7,100.00	7,094.33	18,706.04	10,951.91	21.00	121.10	-161.653	-77.18	2,865.95	4,950.41	4,850.79	99.62	49.693			
7,200.00	7,194.23	18,702.98	10,951.99	21.33	121.06	-161.707	-74.12	2,865.85	4,875.69	4,775.01	100.68	48.426			
7,300.00	7,294.13	18,700.25	10,952.06	21.65	121.02	-161.755	-71.39	2,865.75	4,801.89	4,700.11	101.79	47.177			
7,400.00	7,394.02	18,697.81	10,952.12	21.98	120.99	-161.798	-68.95	2,865.67	4,729.06	4,626.13	102.92	45.947			
7,500.00	7,493.92	18,695.60	10,952.18	22.30	120.96	-161.836	-66.75	2,865.59	4,657.23	4,553.13	104.10	44.738			
7,600.00	7,593.82	18,693.60	10,952.22	22.63	120.93	-161.871	-64.75	2,865.53	4,586.45	4,481.14	105.31	43.550			
7,700.00	7,693.72	18,691.79	10,952.27	22.95	120.91	-161.903	-62.94	2,865.46	4,516.78	4,410.22	106.57	42.385			
7,800.00	7,793.61	18,690.12	10,952.30	23.28	120.89	-161.933	-61.28	2,865.41	4,448.27	4,340.42	107.85	41.244			
7,900.00	7,893.51	18,688.60	10,952.34	23.61	120.87	-161.959	-59.75	2,865.36	4,380.97	4,271.79	109.18	40.127			
8,000.00	7,993.41	18,687.19	10,952.37	23.93	120.85	-161.984	-58.35	2,865.31	4,314.94	4,204.40	110.54	39.035			
8,100.00	8,093.31	18,685.89	10,952.40	24.26	120.83	-162.007	-57.05	2,865.27	4,250.23	4,138.29	111.94	37.970			
8,200.00	8,193.20	18,684.69	10,952.42	24.59	120.81	-162.028	-55.85	2,865.23	4,186.91	4,073.54	113.37	36.931			
8,300.00	8,293.10	18,683.57	10,952.45	24.92	120.80	-162.048	-54.73	2,865.19	4,125.05	4,010.21	114.84	35.921			
8,400.00	8,393.00	18,682.53	10,952.47	25.24	120.78	-162.066	-53.69	2,865.16	4,064.70	3,948.36	116.33	34.940			
8,500.00	8,492.89	18,681.56	10,952.49	25.57	120.77	-162.083	-52.72	2,865.13	4,005.94	3,888.08	117.86	33.989			
8,600.00	8,592.79	18,680.64	10,952.51	25.90	120.76	-162.099	-51.81	2,865.10	3,948.84	3,829.42	119.42	33.067			
8,700.00	8,692.69	18,679.79	10,952.53	26.23	120.75	-162.114	-50.95	2,865.07	3,893.47	3,772.47	121.00	32.177			
8,800.00	8,792.59	18,679.00	10,952.54	26.55	120.74	-162.128	-50.16	2,865.04	3,839.90	3,717.30	122.60	31.319			
8,900.00	8,892.48	18,679.00	10,952.54	26.88	120.74	-162.128	-50.16	2,865.04	3,788.22	3,663.98	124.24	30.492			
9,000.00	8,992.38	18,679.00	10,952.54	27.21	120.74	-162.128	-50.16	2,865.04	3,738.50	3,612.61	125.88	29.698			
9,100.00	9,092.28	18,679.00	10,952.54	27.54	120.74	-162.128	-50.16	2,865.04	3,690.82	3,563.27	127.54	28.938			
9,200.00	9,192.17	18,679.00	10,952.54	27.87	120.74	-162.128	-50.16	2,865.04	3,645.26	3,516.05	129.21	28.213			
9,300.00	9,292.07	18,679.00	10,952.54	28.19	120.74	-162.128	-50.16	2,865.04	3,601.90	3,471.02	130.87	27.522			
9,400.00	9,391.97	18,679.00	10,952.54	28.52	120.74	-162.128	-50.16	2,865.04	3,560.82	3,428.28	132.53	26.867			
9,500.00	9,491.87	18,679.00	10,952.54	28.85	120.74	-162.128	-50.16	2,865.04	3,522.10	3,387.91	134.19	26.248			
9,600.00	9,591.76	18,679.00	10,952.54	29.18	120.74	-162.128	-50.16	2,865.04	3,485.82	3,350.00	135.82	25.664			
9,700.00	9,691.66	18,679.00	10,952.54	29.51	120.74	-162.128	-50.16	2,865.04	3,452.06	3,314.62	137.44	25.117			
9,800.00	9,791.56	18,679.00	10,952.54	29.84	120.74	-162.128	-50.16	2,865.04	3,420.89	3,281.87	139.02	24.607			
9,900.00	9,891.45	18,679.00	10,952.54	30.17	120.74	-162.128	-50.16	2,865.04	3,392.38	3,251.81	140.57	24.133			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 4 - Cattleman Fed Com 204H - OH / 69917 - Surveys H&P 656)												Offset Site Error:	0.00 usft
Survey Program: 175-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,000.00	9,991.35	18,679.00	10,952.54	30.50	120.74	-162.128	-50.16	2,865.04	3,366.60	3,224.53	142.07	23.696	
10,100.00	10,091.25	18,679.00	10,952.54	30.83	120.74	-162.128	-50.16	2,865.04	3,343.62	3,200.09	143.53	23.296	
10,200.00	10,191.15	18,679.00	10,952.54	31.15	120.74	-162.128	-50.16	2,865.04	3,323.48	3,178.56	144.92	22.933	
10,300.00	10,291.04	18,679.00	10,952.54	31.48	120.74	-162.128	-50.16	2,865.04	3,306.25	3,159.99	146.26	22.606	
10,400.00	10,390.94	18,679.00	10,952.54	31.81	120.74	-162.128	-50.16	2,865.04	3,291.97	3,144.45	147.52	22.315	
10,500.00	10,490.84	18,679.00	10,952.54	32.14	120.74	-162.128	-50.16	2,865.04	3,280.67	3,131.96	148.71	22.061	
10,600.00	10,590.74	18,679.00	10,952.54	32.47	120.74	-162.128	-50.16	2,865.04	3,272.40	3,122.58	149.82	21.842	
10,700.00	10,690.63	18,679.00	10,952.54	32.80	120.74	-162.128	-50.16	2,865.04	3,267.16	3,116.32	150.84	21.659	
10,800.00	10,790.53	18,679.00	10,952.54	33.13	120.74	-162.128	-50.16	2,865.04	3,264.98	3,113.21	151.78	21.512	
10,821.18	10,811.69	18,679.00	10,952.54	33.20	120.74	-162.128	-50.16	2,865.04	3,264.91	3,112.95	151.96	21.485 CC, ES	
10,900.00	10,890.43	18,679.00	10,952.54	33.46	120.74	-162.128	-50.16	2,865.04	3,265.87	3,113.24	152.62	21.398	
11,000.00	10,990.32	18,679.00	10,952.54	33.79	120.74	-162.128	-50.16	2,865.04	3,269.81	3,116.43	153.37	21.319	
11,100.00	11,090.22	18,679.00	10,952.54	34.12	120.74	-162.128	-50.16	2,865.04	3,276.80	3,122.77	154.03	21.273	
11,200.00	11,190.12	18,679.00	10,952.54	34.45	120.74	-162.128	-50.16	2,865.04	3,286.82	3,132.22	154.60	21.261 SF	
11,300.00	11,290.02	18,679.00	10,952.54	34.78	120.74	-162.128	-50.16	2,865.04	3,299.84	3,144.77	155.07	21.280	
11,400.00	11,389.91	18,679.00	10,952.54	35.11	120.74	-162.128	-50.16	2,865.04	3,315.83	3,160.38	155.45	21.331	
11,444.32	11,434.18	18,679.00	10,952.54	35.25	120.74	-162.128	-50.16	2,865.04	3,323.85	3,168.27	155.58	21.364	
11,500.00	11,489.83	18,679.00	10,952.54	35.42	120.74	-162.192	-50.16	2,865.04	3,334.23	3,178.51	155.72	21.412	
11,574.22	11,564.04	18,679.00	10,952.54	35.53	120.74	88.258	-50.16	2,865.04	3,347.89	3,192.14	155.75	21.495	
11,600.00	11,589.82	18,679.00	10,952.54	35.53	120.74	88.258	-50.16	2,865.04	3,352.70	3,196.98	155.71	21.531	
11,700.00	11,689.82	18,664.30	10,952.83	35.54	120.54	88.002	-35.47	2,864.58	3,373.09	3,217.69	155.40	21.706	
11,800.00	11,789.82	18,663.00	10,952.85	35.56	120.52	87.980	-34.17	2,864.54	3,396.34	3,241.19	155.15	21.891	
11,900.00	11,889.82	18,661.72	10,952.87	35.58	120.50	87.958	-32.90	2,864.50	3,422.35	3,267.52	154.83	22.104	
12,000.00	11,989.82	18,660.46	10,952.90	35.60	120.48	87.936	-31.64	2,864.46	3,451.07	3,296.62	154.45	22.344	
12,074.22	12,064.04	18,659.54	10,952.91	35.61	120.47	87.920	-30.71	2,864.44	3,474.09	3,319.96	154.13	22.540	
12,100.00	12,089.81	18,659.61	10,952.91	35.62	120.47	-90.626	-30.79	2,864.44	3,482.44	3,328.42	154.02	22.611	
12,150.00	12,139.60	18,662.00	10,952.87	35.69	120.51	-88.815	-33.17	2,864.51	3,499.12	3,345.29	153.83	22.747	
12,200.00	12,188.82	18,679.00	10,952.54	35.77	120.74	-86.692	-50.16	2,865.04	3,516.37	3,362.60	153.77	22.867	
12,250.00	12,237.08	18,679.00	10,952.54	35.86	120.74	-84.819	-50.16	2,865.04	3,533.95	3,380.38	153.57	23.013	
12,300.00	12,284.02	18,679.00	10,952.54	35.96	120.74	-82.922	-50.16	2,865.04	3,551.78	3,398.42	153.36	23.159	
12,350.00	12,329.30	18,679.00	10,952.54	36.06	120.74	-81.019	-50.16	2,865.04	3,569.72	3,416.55	153.17	23.306	
12,400.00	12,372.55	18,711.93	10,951.75	36.17	121.18	-78.659	-83.06	2,866.16	3,587.38	3,434.08	153.30	23.401	
12,450.00	12,413.46	18,728.21	10,951.26	36.28	121.40	-76.618	-99.32	2,866.76	3,604.82	3,451.54	153.28	23.517	
12,500.00	12,451.70	18,746.38	10,950.65	36.40	121.65	-74.640	-117.47	2,867.45	3,621.78	3,468.48	153.30	23.625	
12,550.00	12,487.00	18,773.00	10,949.60	36.51	122.01	-72.678	-144.05	2,868.53	3,638.11	3,484.68	153.43	23.712	
12,600.00	12,519.08	18,927.18	10,944.40	36.63	124.10	-69.626	-298.07	2,872.04	3,652.57	3,497.82	154.75	23.603	
12,650.00	12,547.69	19,026.23	10,939.24	36.75	125.44	-67.485	-396.96	2,870.92	3,665.12	3,509.61	155.52	23.568	
12,700.00	12,572.62	19,090.00	10,935.52	36.86	126.30	-65.947	-460.60	2,869.26	3,675.87	3,519.85	156.02	23.560	
12,750.00	12,593.68	19,145.71	10,932.37	36.99	127.05	-64.727	-516.19	2,867.53	3,684.78	3,528.28	156.50	23.545	
12,800.00	12,610.72	19,177.00	10,930.61	37.11	127.47	-63.884	-547.42	2,866.53	3,691.97	3,535.12	156.85	23.539	
12,850.00	12,623.59	19,177.00	10,930.61	37.23	127.47	-63.360	-547.42	2,866.53	3,697.79	3,540.79	157.00	23.553	
12,900.00	12,632.20	19,177.00	10,930.61	37.36	127.47	-62.953	-547.42	2,866.53	3,702.33	3,545.15	157.18	23.555	
12,950.00	12,636.49	19,177.00	10,930.61	37.49	127.47	-62.665	-547.42	2,866.53	3,705.56	3,548.19	157.37	23.547	
12,974.22	12,637.00	19,177.00	10,930.61	37.55	127.47	-62.568	-547.42	2,866.53	3,706.65	3,549.19	157.46	23.540	
13,000.00	12,637.00	19,177.00	10,930.61	37.62	127.47	-62.568	-547.42	2,866.53	3,707.73	3,550.18	157.55	23.533	
13,100.00	12,637.00	19,177.00	10,930.61	37.92	127.47	-62.568	-547.42	2,866.53	3,713.63	3,555.74	157.88	23.521	
13,200.00	12,637.00	19,177.00	10,930.61	38.28	127.47	-62.568	-547.42	2,866.53	3,722.20	3,564.05	158.15	23.536	
13,300.00	12,637.00	19,177.00	10,930.61	38.69	127.47	-62.568	-547.42	2,866.53	3,733.43	3,575.08	158.35	23.577	
13,400.00	12,637.00	19,177.00	10,930.61	39.15	127.47	-62.568	-547.42	2,866.53	3,747.30	3,588.81	158.49	23.644	
13,500.00	12,637.00	19,177.00	10,930.61	39.66	127.47	-62.568	-547.42	2,866.53	3,763.77	3,605.21	158.56	23.737	
13,600.00	12,637.00	19,177.00	10,930.61	40.23	127.47	-62.568	-547.42	2,866.53	3,782.82	3,624.25	158.57	23.856	
13,700.00	12,637.00	19,177.00	10,930.61	40.84	127.47	-62.568	-547.42	2,866.53	3,804.40	3,645.88	158.51	24.000	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 4 - Cattleman Fed Com 204H - OH / 69917 - Surveys H&P 656)													Offset Site Error:	0.00 usft
Survey Program:		175-MWD+HRGM					Rule Assigned:						Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
13,800.00	12,637.00	19,177.00	10,930.61	41.49	127.47	-62.568	-547.42	2,866.53	3,828.47	3,670.08	158.40	24.170		
13,900.00	12,637.00	19,177.00	10,930.61	42.20	127.47	-62.568	-547.42	2,866.53	3,854.99	3,696.77	158.22	24.365		
14,000.00	12,637.00	19,177.00	10,930.61	42.94	127.47	-62.568	-547.42	2,866.53	3,883.90	3,725.92	157.98	24.585		
14,100.00	12,637.00	19,177.00	10,930.61	43.73	127.47	-62.568	-547.42	2,866.53	3,915.15	3,757.47	157.68	24.829		
14,200.00	12,637.00	19,177.00	10,930.61	44.55	127.47	-62.568	-547.42	2,866.53	3,948.69	3,791.36	157.33	25.098		
14,300.00	12,637.00	19,177.00	10,930.61	45.41	127.47	-62.568	-547.42	2,866.53	3,984.45	3,827.52	156.93	25.390		
14,400.00	12,637.00	19,177.00	10,930.61	46.30	127.47	-62.568	-547.42	2,866.53	4,022.39	3,865.91	156.48	25.705		
14,500.00	12,637.00	19,177.00	10,930.61	47.23	127.47	-62.568	-547.42	2,866.53	4,062.43	3,906.44	155.99	26.043		
14,600.00	12,637.00	19,177.00	10,930.61	48.18	127.47	-62.568	-547.42	2,866.53	4,104.52	3,949.06	155.46	26.403		
14,700.00	12,637.00	19,177.00	10,930.61	49.16	127.47	-62.568	-547.42	2,866.53	4,148.59	3,993.71	154.88	26.785		
14,800.00	12,637.00	19,177.00	10,930.61	50.17	127.47	-62.568	-547.42	2,866.53	4,194.59	4,040.31	154.27	27.189		
14,900.00	12,637.00	19,177.00	10,930.61	51.19	127.47	-62.568	-547.42	2,866.53	4,242.44	4,088.81	153.63	27.614		
15,000.00	12,637.00	19,177.00	10,930.61	52.25	127.47	-62.568	-547.42	2,866.53	4,292.09	4,139.13	152.96	28.059		
15,100.00	12,637.00	19,177.00	10,930.61	53.32	127.47	-62.568	-547.42	2,866.53	4,343.47	4,191.20	152.27	28.525		
15,200.00	12,637.00	19,177.00	10,930.61	54.41	127.47	-62.568	-547.42	2,866.53	4,396.53	4,244.98	151.55	29.010		
15,300.00	12,637.00	19,177.00	10,930.61	55.51	127.47	-62.568	-547.42	2,866.53	4,451.21	4,300.39	150.82	29.514		
15,400.00	12,637.00	19,177.00	10,930.61	56.64	127.47	-62.568	-547.42	2,866.53	4,507.44	4,357.37	150.07	30.036		
15,500.00	12,637.00	19,177.00	10,930.61	57.78	127.47	-62.568	-547.42	2,866.53	4,565.16	4,415.86	149.30	30.577		
15,600.00	12,637.00	19,177.00	10,930.61	58.93	127.47	-62.568	-547.42	2,866.53	4,624.33	4,475.81	148.52	31.135		
15,700.00	12,637.00	19,177.00	10,930.61	60.10	127.47	-62.568	-547.42	2,866.53	4,684.89	4,537.15	147.74	31.711		
15,800.00	12,637.00	19,177.00	10,930.61	61.28	127.47	-62.568	-547.42	2,866.53	4,746.78	4,599.84	146.94	32.303		
15,900.00	12,637.00	19,177.00	10,930.61	62.47	127.47	-62.568	-547.42	2,866.53	4,809.96	4,663.81	146.15	32.912		
16,000.00	12,637.00	19,177.00	10,930.61	63.67	127.47	-62.568	-547.42	2,866.53	4,874.36	4,729.02	145.35	33.536		
16,100.00	12,637.00	19,177.00	10,930.61	64.88	127.47	-62.568	-547.42	2,866.53	4,939.95	4,795.41	144.54	34.176		
16,200.00	12,637.00	19,177.00	10,930.61	66.11	127.47	-62.568	-547.42	2,866.53	5,006.68	4,862.94	143.74	34.831		
16,300.00	12,637.00	19,177.00	10,930.61	67.34	127.47	-62.568	-547.42	2,866.53	5,074.51	4,931.56	142.94	35.500		
16,400.00	12,637.00	19,177.00	10,930.61	68.58	127.47	-62.568	-547.42	2,866.53	5,143.38	5,001.23	142.15	36.183		
16,500.00	12,637.00	19,177.00	10,930.61	69.82	127.47	-62.568	-547.42	2,866.53	5,213.26	5,071.90	141.36	36.880		
16,600.00	12,637.00	19,177.00	10,930.61	71.08	127.47	-62.568	-547.42	2,866.53	5,284.11	5,143.54	140.57	37.590		
16,700.00	12,637.00	19,177.00	10,930.61	72.34	127.47	-62.568	-547.42	2,866.53	5,355.89	5,216.10	139.79	38.313		
16,800.00	12,637.00	19,177.00	10,930.61	73.61	127.47	-62.568	-547.42	2,866.53	5,428.56	5,289.54	139.02	39.048		
16,900.00	12,637.00	19,177.00	10,930.61	74.88	127.47	-62.568	-547.42	2,866.53	5,502.09	5,363.83	138.26	39.795		
17,000.00	12,637.00	19,177.00	10,930.61	76.16	127.47	-62.568	-547.42	2,866.53	5,576.45	5,438.94	137.51	40.553		
17,100.00	12,637.00	19,177.00	10,930.61	77.45	127.47	-62.568	-547.42	2,866.53	5,651.59	5,514.83	136.77	41.323		
17,200.00	12,637.00	19,177.00	10,930.61	78.74	127.47	-62.568	-547.42	2,866.53	5,727.50	5,591.47	136.03	42.104		
17,300.00	12,637.00	19,177.00	10,930.61	80.04	127.47	-62.568	-547.42	2,866.53	5,804.14	5,668.83	135.31	42.895		
17,400.00	12,637.00	19,177.00	10,930.61	81.34	127.47	-62.568	-547.42	2,866.53	5,881.47	5,746.88	134.60	43.697		
17,500.00	12,637.00	19,177.00	10,930.61	82.65	127.47	-62.568	-547.42	2,866.53	5,959.49	5,825.59	133.90	44.508		
17,600.00	12,637.00	19,177.00	10,930.61	83.96	127.47	-62.568	-547.42	2,866.53	6,038.15	5,904.94	133.21	45.328		
17,700.00	12,637.00	19,177.00	10,930.61	85.27	127.47	-62.568	-547.42	2,866.53	6,117.43	5,984.90	132.53	46.158		
17,800.00	12,637.00	19,177.00	10,930.61	86.59	127.47	-62.568	-547.42	2,866.53	6,197.31	6,065.45	131.87	46.997		
17,900.00	12,637.00	19,177.00	10,930.61	87.91	127.47	-62.568	-547.42	2,866.53	6,277.77	6,146.56	131.21	47.843		
18,000.00	12,637.00	19,177.00	10,930.61	89.24	127.47	-62.568	-547.42	2,866.53	6,358.79	6,228.21	130.57	48.699		
18,100.00	12,637.00	19,177.00	10,930.61	90.57	127.47	-62.568	-547.42	2,866.53	6,440.33	6,310.39	129.95	49.561		
18,200.00	12,637.00	19,177.00	10,930.61	91.90	127.47	-62.568	-547.42	2,866.53	6,522.39	6,393.06	129.33	50.432		
18,300.00	12,637.00	19,177.00	10,930.61	93.24	127.47	-62.568	-547.42	2,866.53	6,604.95	6,476.22	128.73	51.310		
18,400.00	12,637.00	19,177.00	10,930.61	94.58	127.47	-62.568	-547.42	2,866.53	6,687.98	6,559.85	128.14	52.194		
18,500.00	12,637.00	19,177.00	10,930.61	95.92	127.47	-62.568	-547.42	2,866.53	6,771.47	6,643.92	127.56	53.086		
18,600.00	12,637.00	19,177.00	10,930.61	97.26	127.47	-62.568	-547.42	2,866.53	6,855.41	6,728.41	126.99	53.984		
18,700.00	12,637.00	19,177.00	10,930.61	98.61	127.47	-62.568	-547.42	2,866.53	6,939.76	6,813.33	126.44	54.888		
18,800.00	12,637.00	19,177.00	10,930.61	99.96	127.47	-62.568	-547.42	2,866.53	7,024.53	6,898.64	125.89	55.797		
18,900.00	12,637.00	19,177.00	10,930.61	101.31	127.47	-62.568	-547.42	2,866.53	7,109.70	6,984.33	125.36	56.713		

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 4 - Cattleman Fed Com 204H - OH / 69917 - Surveys H&P 656)												Offset Site Error:	0.00 usft
Survey Program:		175-MWD+HRGM		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,000.00	12,637.00	19,177.00	10,930.61	102.67	127.47	-62.568	-547.42	2,866.53	7,195.24	7,070.40	124.84	57.634	
19,100.00	12,637.00	19,177.00	10,930.61	104.02	127.47	-62.568	-547.42	2,866.53	7,281.16	7,156.82	124.34	58.560	
19,200.00	12,637.00	19,177.00	10,930.61	105.38	127.47	-62.568	-547.42	2,866.53	7,367.43	7,243.59	123.84	59.491	
19,300.00	12,637.00	19,177.00	10,930.61	106.74	127.47	-62.568	-547.42	2,866.53	7,454.04	7,330.69	123.36	60.427	
19,400.00	12,637.00	19,177.00	10,930.61	108.11	127.47	-62.568	-547.42	2,866.53	7,540.99	7,418.10	122.88	61.367	
19,500.00	12,637.00	19,177.00	10,930.61	109.47	127.47	-62.568	-547.42	2,866.53	7,628.25	7,505.83	122.42	62.312	
19,600.00	12,637.00	19,177.00	10,930.61	110.84	127.47	-62.568	-547.42	2,866.53	7,715.82	7,593.86	121.97	63.260	
19,700.00	12,637.00	19,177.00	10,930.61	112.20	127.47	-62.568	-547.42	2,866.53	7,803.70	7,682.17	121.53	64.213	
19,800.00	12,637.00	19,177.00	10,930.61	113.57	127.47	-62.568	-547.42	2,866.53	7,891.86	7,770.76	121.10	65.169	
19,900.00	12,637.00	19,177.00	10,930.61	114.95	127.47	-62.568	-547.42	2,866.53	7,980.30	7,859.62	120.68	66.129	
20,000.00	12,637.00	19,177.00	10,930.61	116.32	127.47	-62.568	-547.42	2,866.53	8,069.01	7,948.74	120.27	67.092	
20,100.00	12,637.00	19,177.00	10,930.61	117.69	127.47	-62.568	-547.42	2,866.53	8,157.98	8,038.11	119.87	68.057	
20,200.00	12,637.00	19,177.00	10,930.61	119.07	127.47	-62.568	-547.42	2,866.53	8,247.20	8,127.73	119.48	69.026	
20,300.00	12,637.00	19,177.00	10,930.61	120.45	127.47	-62.568	-547.42	2,866.53	8,336.67	8,217.57	119.10	69.998	
20,400.00	12,637.00	19,177.00	10,930.61	121.83	127.47	-62.568	-547.42	2,866.53	8,426.38	8,307.65	118.73	70.972	
20,500.00	12,637.00	19,177.00	10,930.61	123.21	127.47	-62.568	-547.42	2,866.53	8,516.31	8,397.95	118.37	71.949	
20,600.00	12,637.00	19,177.00	10,930.61	124.59	127.47	-62.568	-547.42	2,866.53	8,606.47	8,488.46	118.01	72.927	
20,700.00	12,637.00	19,177.00	10,930.61	125.97	127.47	-62.568	-547.42	2,866.53	8,696.84	8,579.17	117.67	73.908	
20,800.00	12,637.00	19,177.00	10,930.61	127.35	127.47	-62.568	-547.42	2,866.53	8,787.42	8,670.09	117.34	74.891	
20,900.00	12,637.00	19,177.00	10,930.61	128.74	127.47	-62.568	-547.42	2,866.53	8,878.21	8,761.20	117.01	75.876	
21,000.00	12,637.00	19,177.00	10,930.61	130.12	127.47	-62.568	-547.42	2,866.53	8,969.18	8,852.49	116.69	76.862	
21,100.00	12,637.00	19,177.00	10,930.61	131.51	127.47	-62.568	-547.42	2,866.53	9,060.35	8,943.97	116.38	77.849	
21,200.00	12,637.00	19,177.00	10,930.61	132.90	127.47	-62.568	-547.42	2,866.53	9,151.71	9,035.63	116.08	78.838	
21,300.00	12,637.00	19,177.00	10,930.61	134.29	127.47	-62.568	-547.42	2,866.53	9,243.24	9,127.45	115.79	79.828	
21,400.00	12,637.00	19,177.00	10,930.61	135.68	127.47	-62.568	-547.42	2,866.53	9,334.95	9,219.44	115.50	80.820	
21,500.00	12,637.00	19,177.00	10,930.61	137.07	127.47	-62.568	-547.42	2,866.53	9,426.82	9,311.60	115.23	81.812	
21,600.00	12,637.00	19,177.00	10,930.61	138.46	127.47	-62.568	-547.42	2,866.53	9,518.86	9,403.90	114.96	82.805	
21,700.00	12,637.00	19,177.00	10,930.61	139.85	127.47	-62.568	-547.42	2,866.53	9,611.06	9,496.37	114.69	83.798	
21,800.00	12,637.00	19,177.00	10,930.61	141.25	127.47	-62.568	-547.42	2,866.53	9,703.41	9,588.97	114.44	84.792	
21,900.00	12,637.00	19,177.00	10,930.61	142.64	127.47	-62.568	-547.42	2,866.53	9,795.91	9,681.72	114.19	85.787	
22,000.00	12,637.00	19,177.00	10,930.61	144.04	127.47	-62.568	-547.42	2,866.53	9,888.56	9,774.61	113.95	86.782	
22,100.00	12,637.00	19,177.00	10,930.61	145.43	127.47	-62.568	-547.42	2,866.53	9,981.35	9,867.64	113.71	87.777	
22,200.00	12,637.00	19,177.00	10,930.61	146.83	127.47	-62.568	-547.42	2,866.53	10,074.28	9,960.80	113.48	88.773	
22,300.00	12,637.00	19,177.00	10,930.61	148.23	127.47	-62.568	-547.42	2,866.53	10,167.34	10,054.08	113.26	89.768	
22,400.00	12,637.00	19,177.00	10,930.61	149.63	127.47	-62.568	-547.42	2,866.53	10,260.54	10,147.49	113.05	90.763	
22,500.00	12,637.00	19,177.00	10,930.61	151.02	127.47	-62.568	-547.42	2,866.53	10,353.86	10,241.02	112.84	91.758	
22,600.00	12,637.00	19,177.00	10,930.61	152.42	127.47	-62.568	-547.42	2,866.53	10,447.30	10,334.66	112.64	92.753	
22,700.00	12,637.00	19,177.00	10,930.61	153.83	127.47	-62.568	-547.42	2,866.53	10,540.86	10,428.42	112.44	93.747	
22,800.00	12,637.00	19,177.00	10,930.61	155.23	127.47	-62.568	-547.42	2,866.53	10,634.55	10,522.30	112.25	94.741	
22,900.00	12,637.00	19,177.00	10,930.61	156.63	127.47	-62.568	-547.42	2,866.53	10,728.34	10,616.28	112.06	95.735	
23,000.00	12,637.00	19,177.00	10,930.61	158.03	127.47	-62.568	-547.42	2,866.53	10,822.25	10,710.36	111.88	96.727	
23,100.00	12,637.00	19,177.00	10,930.61	159.43	127.47	-62.568	-547.42	2,866.53	10,916.26	10,804.55	111.71	97.719	
23,124.22	12,637.00	19,177.00	10,930.61	159.77	127.47	-62.568	-547.42	2,866.53	10,939.05	10,827.38	111.67	97.960	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 403H - OH / 68704 - Surveys (H&P 656)														Offset Site Error:	0.00 usft
Survey Program: 188-MWD+HDGM														Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
0.00	0.00	66.31	13.31	1.00	1.01	8.710	7,916.96	1,212.89	8,009.34						
100.00	100.00	191.41	138.41	1.08	1.04	8.706	7,916.64	1,212.33	8,009.02	8,006.90	2.13	3,765.883			
200.00	200.00	285.20	232.19	1.60	1.19	8.702	7,916.33	1,211.64	8,008.59	8,005.80	2.78	2,875.863			
300.00	300.00	378.70	325.69	2.01	1.40	8.696	7,916.11	1,210.82	8,008.22	8,004.82	3.40	2,352.073			
400.00	400.00	470.74	417.73	2.35	1.64	8.691	7,915.99	1,210.01	8,007.95	8,003.96	3.99	2,004.653			
500.00	500.00	567.49	514.47	2.65	1.93	8.685	7,915.93	1,209.19	8,007.76	8,003.18	4.58	1,747.411			
600.00	600.00	669.66	616.64	2.93	2.25	8.679	7,915.87	1,208.30	8,007.57	8,002.39	5.18	1,546.902			
700.00	700.00	766.97	713.95	3.18	2.57	8.673	7,915.80	1,207.40	8,007.37	8,001.63	5.75	1,393.767			
800.00	800.00	862.23	809.20	3.41	2.89	8.666	7,915.81	1,206.47	8,007.23	8,000.93	6.30	1,271.476			
900.00	900.00	963.86	910.83	3.64	3.23	8.658	7,915.85	1,205.43	8,007.11	8,000.25	6.86	1,166.639			
1,000.00	1,000.00	1,067.27	1,014.23	3.85	3.58	8.651	7,915.85	1,204.36	8,006.95	7,999.52	7.43	1,077.898			
1,100.00	1,100.00	1,155.98	1,102.93	4.05	3.89	8.644	7,915.94	1,203.36	8,006.88	7,998.95	7.94	1,008.947			
1,200.00	1,200.00	1,255.44	1,202.38	4.24	4.23	8.633	7,916.10	1,201.93	8,006.82	7,998.35	8.47	945.176			
1,214.00	1,214.00	1,267.05	1,214.00	4.27	4.27	8.632	7,916.12	1,201.79	8,006.82	7,998.29	8.54	938.021			
1,300.00	1,300.00	1,338.43	1,285.37	4.43	4.51	8.629	7,916.25	1,201.36	8,006.90	7,997.97	8.93	896.286			
1,400.00	1,400.00	1,425.00	1,371.94	4.61	4.80	8.632	7,916.44	1,201.81	8,007.19	7,997.79	9.40	851.617			
1,500.00	1,500.00	1,483.47	1,430.40	4.78	4.99	8.637	7,916.70	1,202.54	8,007.82	7,998.05	9.77	819.888			
1,600.00	1,599.98	1,544.54	1,491.47	5.03	5.19	118.080	7,917.25	1,203.44	8,009.75	7,999.65	10.10	792.832			
1,629.90	1,629.86	1,562.78	1,509.70	5.06	5.24	118.069	7,917.47	1,203.73	8,010.74	8,000.56	10.18	787.103			
1,700.00	1,699.88	1,614.00	1,560.91	5.14	5.41	118.089	7,918.22	1,204.62	8,013.42	8,003.01	10.41	770.023			
1,800.00	1,799.78	1,690.16	1,637.05	5.31	5.67	118.119	7,919.52	1,206.02	8,017.50	8,006.70	10.80	742.244			
1,900.00	1,899.68	1,778.64	1,725.49	5.50	5.96	118.154	7,921.15	1,207.66	8,021.74	8,010.49	11.25	713.025			
2,000.00	1,999.58	1,803.00	1,749.85	5.70	6.04	118.164	7,921.62	1,208.12	8,026.42	8,014.93	11.48	698.885			
2,100.00	2,099.47	1,884.40	1,831.20	5.91	6.32	118.199	7,923.60	1,210.06	8,031.42	8,019.50	11.92	673.984			
2,200.00	2,199.37	1,931.52	1,878.27	6.14	6.48	118.221	7,925.12	1,211.56	8,037.23	8,025.00	12.23	657.064			
2,300.00	2,299.27	1,993.00	1,939.66	6.37	6.69	118.253	7,927.50	1,213.94	8,043.73	8,031.13	12.60	638.471			
2,400.00	2,399.16	2,062.28	2,008.81	6.61	6.93	118.291	7,930.42	1,216.97	8,050.67	8,037.67	13.00	619.510			
2,500.00	2,499.06	2,162.22	2,108.56	6.86	7.27	118.348	7,934.58	1,221.65	8,057.67	8,044.17	13.50	596.835			
2,600.00	2,598.96	2,247.11	2,193.26	7.12	7.57	118.398	7,938.12	1,225.94	8,064.74	8,050.79	13.96	577.838			
2,700.00	2,698.86	2,328.22	2,274.17	7.38	7.85	118.448	7,941.63	1,230.35	8,072.05	8,057.65	14.40	560.501			
2,800.00	2,798.75	2,408.54	2,354.27	7.65	8.13	118.499	7,945.25	1,235.00	8,079.59	8,064.74	14.85	544.234			
2,900.00	2,898.65	2,487.99	2,433.49	7.92	8.41	118.551	7,949.00	1,239.81	8,087.38	8,072.09	15.29	528.955			
3,000.00	2,998.55	2,573.36	2,518.58	8.20	8.71	118.608	7,953.19	1,245.19	8,095.43	8,079.67	15.76	513.813			
3,100.00	3,098.44	2,727.18	2,671.90	8.48	9.26	118.715	7,960.21	1,255.47	8,103.20	8,086.73	16.47	491.923			
3,200.00	3,198.34	2,893.27	2,837.50	8.77	9.85	118.834	7,966.22	1,266.71	8,109.96	8,092.72	17.24	470.502			
3,300.00	3,298.24	2,971.65	2,915.68	9.05	10.13	118.885	7,969.06	1,271.45	8,116.73	8,099.04	17.69	458.957			
3,400.00	3,398.14	3,055.49	2,999.34	9.35	10.43	118.937	7,972.41	1,275.97	8,123.76	8,105.60	18.15	447.491			
3,500.00	3,498.03	3,158.99	3,102.67	9.64	10.80	118.987	7,976.88	1,279.80	8,130.84	8,112.15	18.69	434.932			
3,600.00	3,597.93	3,223.00	3,166.60	9.94	11.03	119.010	7,979.82	1,281.02	8,137.97	8,118.88	19.09	426.250			
3,700.00	3,697.83	3,311.18	3,254.66	10.23	11.34	119.038	7,984.21	1,282.26	8,145.33	8,125.76	19.58	416.056			
3,800.00	3,797.72	3,351.28	3,494.45	10.53	12.20	119.120	7,995.61	1,286.31	8,153.05	8,132.43	20.61	395.492			
3,900.00	3,897.62	3,613.90	3,557.01	10.84	12.42	119.142	7,997.92	1,287.44	8,159.21	8,138.19	21.01	388.336			
4,000.00	3,997.52	3,979.82	3,922.76	11.14	13.72	119.260	8,006.67	1,291.25	8,163.92	8,141.43	22.49	362.957			
4,100.00	4,097.42	4,073.00	4,015.93	11.45	14.05	119.285	8,007.72	1,291.32	8,167.25	8,144.25	23.00	355.117			
4,200.00	4,197.31	4,144.10	4,087.02	11.75	14.30	119.304	8,008.67	1,291.39	8,170.76	8,147.33	23.43	348.765			
4,300.00	4,297.21	4,241.20	4,184.11	12.06	14.64	119.329	8,010.03	1,291.32	8,174.35	8,150.40	23.95	341.316			
4,400.00	4,397.11	4,329.29	4,272.19	12.37	14.95	119.350	8,011.35	1,291.12	8,178.01	8,153.58	24.44	334.621			
4,500.00	4,497.01	4,414.76	4,357.65	12.68	15.26	119.371	8,012.79	1,290.90	8,181.85	8,156.93	24.92	328.313			
4,600.00	4,596.90	20,630.00	12,553.55	13.00	125.62	-159.834	-190.13	1,541.26	8,131.49	8,051.68	79.81	101.882			
4,700.00	4,696.80	20,630.00	12,553.55	13.31	125.62	-159.834	-190.13	1,541.26	8,034.63	7,954.55	80.09	100.325			
4,800.00	4,796.70	20,630.00	12,553.55	13.62	125.62	-159.834	-190.13	1,541.26	7,937.85	7,857.49	80.37	98.770			
4,900.00	4,896.59	20,630.00	12,553.55	13.94	125.62	-159.834	-190.13	1,541.26	7,841.15	7,760.50	80.65	97.219			

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Anticollision Report



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Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 403H - OH / 68704 - Surveys (H&P 656)													Offset Site Error: 0.00 usft	
Survey Program:		188-MWD+HDGM					Rule Assigned:				Offset Well Error: 1.00 usft			
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance				Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,000.00	4,996.49	20,630.00	12,553.55	14.25	125.62	-159.834	-190.13	1,541.26	7,744.53	7,663.58	80.95	95.672		
5,100.00	5,096.39	20,630.00	12,553.55	14.57	125.62	-159.834	-190.13	1,541.26	7,648.00	7,566.75	81.25	94.129		
5,200.00	5,196.29	20,630.00	12,553.55	14.89	125.62	-159.834	-190.13	1,541.26	7,551.56	7,470.00	81.56	92.589		
5,300.00	5,296.18	20,630.00	12,553.55	15.20	125.62	-159.834	-190.13	1,541.26	7,455.22	7,373.34	81.88	91.054		
5,400.00	5,396.08	20,630.00	12,553.55	15.52	125.62	-159.834	-190.13	1,541.26	7,358.97	7,276.77	82.20	89.522		
5,500.00	5,495.98	20,630.00	12,553.55	15.84	125.62	-159.834	-190.13	1,541.26	7,262.82	7,180.28	82.54	87.996		
5,600.00	5,595.87	20,630.00	12,553.55	16.16	125.62	-159.834	-190.13	1,541.26	7,166.78	7,083.90	82.88	86.473		
5,700.00	5,695.77	20,630.00	12,553.55	16.48	125.62	-159.834	-190.13	1,541.26	7,070.85	6,987.62	83.23	84.956		
5,800.00	5,795.67	20,630.00	12,553.55	16.80	125.62	-159.834	-190.13	1,541.26	6,975.03	6,891.44	83.59	83.443		
5,900.00	5,895.57	20,630.00	12,553.55	17.12	125.62	-159.834	-190.13	1,541.26	6,879.33	6,795.37	83.96	81.935		
6,000.00	5,995.46	20,630.00	12,553.55	17.44	125.62	-159.834	-190.13	1,541.26	6,783.76	6,699.42	84.34	80.433		
6,100.00	6,095.36	20,630.00	12,553.55	17.76	125.62	-159.834	-190.13	1,541.26	6,688.31	6,603.58	84.73	78.936		
6,200.00	6,195.26	20,630.00	12,553.55	18.09	125.62	-159.834	-190.13	1,541.26	6,593.00	6,507.87	85.13	77.445		
6,300.00	6,295.16	20,630.00	12,553.55	18.41	125.62	-159.834	-190.13	1,541.26	6,497.83	6,412.29	85.54	75.959		
6,400.00	6,395.05	20,630.00	12,553.55	18.73	125.62	-159.834	-190.13	1,541.26	6,402.81	6,316.84	85.97	74.479		
6,500.00	6,494.95	20,630.00	12,553.55	19.06	125.62	-159.834	-190.13	1,541.26	6,307.94	6,221.54	86.40	73.005		
6,600.00	6,594.85	20,630.00	12,553.55	19.38	125.62	-159.834	-190.13	1,541.26	6,213.23	6,126.38	86.85	71.537		
6,700.00	6,694.74	20,630.00	12,553.55	19.70	125.62	-159.834	-190.13	1,541.26	6,118.69	6,031.38	87.31	70.076		
6,800.00	6,794.64	20,630.00	12,553.55	20.03	125.62	-159.834	-190.13	1,541.26	6,024.33	5,936.54	87.79	68.622		
6,900.00	6,894.54	20,630.00	12,553.55	20.35	125.62	-159.834	-190.13	1,541.26	5,930.15	5,841.87	88.28	67.174		
7,000.00	6,994.44	20,630.00	12,553.55	20.68	125.62	-159.834	-190.13	1,541.26	5,836.17	5,747.38	88.79	65.733		
7,100.00	7,094.33	20,630.00	12,553.55	21.00	125.62	-159.834	-190.13	1,541.26	5,742.39	5,653.08	89.31	64.300		
7,200.00	7,194.23	20,630.00	12,553.55	21.33	125.62	-159.834	-190.13	1,541.26	5,648.82	5,558.98	89.84	62.874		
7,300.00	7,294.13	20,630.00	12,553.55	21.65	125.62	-159.834	-190.13	1,541.26	5,555.48	5,465.08	90.40	61.455		
7,400.00	7,394.02	20,630.00	12,553.55	21.98	125.62	-159.834	-190.13	1,541.26	5,462.37	5,371.40	90.97	60.045		
7,500.00	7,493.92	20,630.00	12,553.55	22.30	125.62	-159.834	-190.13	1,541.26	5,369.51	5,277.95	91.56	58.643		
7,600.00	7,593.82	20,630.00	12,553.55	22.63	125.62	-159.834	-190.13	1,541.26	5,276.91	5,184.74	92.17	57.249		
7,700.00	7,693.72	20,630.00	12,553.55	22.95	125.62	-159.834	-190.13	1,541.26	5,184.59	5,091.78	92.81	55.864		
7,800.00	7,793.61	20,630.00	12,553.55	23.28	125.62	-159.834	-190.13	1,541.26	5,092.55	4,999.09	93.46	54.488		
7,900.00	7,893.51	20,630.00	12,553.55	23.61	125.62	-159.834	-190.13	1,541.26	5,000.83	4,906.69	94.14	53.122		
8,000.00	7,993.41	20,630.00	12,553.55	23.93	125.62	-159.834	-190.13	1,541.26	4,909.42	4,814.58	94.84	51.765		
8,100.00	8,093.31	20,630.00	12,553.55	24.26	125.62	-159.834	-190.13	1,541.26	4,818.36	4,722.79	95.57	50.418		
8,200.00	8,193.20	20,630.00	12,553.55	24.59	125.62	-159.834	-190.13	1,541.26	4,727.65	4,631.33	96.32	49.081		
8,300.00	8,293.10	20,630.00	12,553.55	24.92	125.62	-159.834	-190.13	1,541.26	4,637.33	4,540.23	97.11	47.755		
8,400.00	8,393.00	20,630.00	12,553.55	25.24	125.62	-159.834	-190.13	1,541.26	4,547.42	4,449.50	97.92	46.440		
8,500.00	8,492.89	20,630.00	12,553.55	25.57	125.62	-159.834	-190.13	1,541.26	4,457.93	4,359.17	98.76	45.137		
8,600.00	8,592.79	20,630.00	12,553.55	25.90	125.62	-159.834	-190.13	1,541.26	4,368.91	4,269.26	99.64	43.846		
8,700.00	8,692.69	20,630.00	12,553.55	26.23	125.62	-159.834	-190.13	1,541.26	4,280.36	4,179.80	100.56	42.567		
8,800.00	8,792.59	20,630.00	12,553.55	26.55	125.62	-159.834	-190.13	1,541.26	4,192.33	4,090.83	101.51	41.301		
8,900.00	8,892.48	20,630.00	12,553.55	26.88	125.62	-159.834	-190.13	1,541.26	4,104.85	4,002.35	102.50	40.049		
9,000.00	8,992.38	20,630.00	12,553.55	27.21	125.62	-159.834	-190.13	1,541.26	4,017.95	3,914.43	103.53	38.811		
9,100.00	9,092.28	20,630.00	12,553.55	27.54	125.62	-159.834	-190.13	1,541.26	3,931.68	3,827.08	104.60	37.588		
9,200.00	9,192.17	20,630.00	12,553.55	27.87	125.62	-159.834	-190.13	1,541.26	3,846.07	3,740.35	105.72	36.380		
9,300.00	9,292.07	20,630.00	12,553.55	28.19	125.62	-159.834	-190.13	1,541.26	3,761.17	3,654.29	106.89	35.188		
9,400.00	9,391.97	20,630.00	12,553.55	28.52	125.62	-159.834	-190.13	1,541.26	3,677.03	3,568.93	108.10	34.014		
9,500.00	9,491.87	20,630.00	12,553.55	28.85	125.62	-159.834	-190.13	1,541.26	3,593.71	3,484.33	109.37	32.857		
9,600.00	9,591.76	20,630.00	12,553.55	29.18	125.62	-159.834	-190.13	1,541.26	3,511.25	3,400.55	110.70	31.719		
9,700.00	9,691.66	20,630.00	12,553.55	29.51	125.62	-159.834	-190.13	1,541.26	3,429.73	3,317.65	112.08	30.600		
9,800.00	9,791.56	20,630.00	12,553.55	29.84	125.62	-159.834	-190.13	1,541.26	3,349.21	3,235.68	113.52	29.502		
9,900.00	9,891.45	20,630.00	12,553.55	30.17	125.62	-159.834	-190.13	1,541.26	3,269.76	3,154.73	115.03	28.426		
10,000.00	9,991.35	20,630.00	12,553.55	30.50	125.62	-159.834	-190.13	1,541.26	3,191.47	3,074.88	116.60	27.372		
10,100.00	10,091.25	20,630.00	12,553.55	30.83	125.62	-159.834	-190.13	1,541.26	3,114.43	2,996.19	118.23	26.342		

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 403H - OH / 68704 - Surveys (H&P 656)												Offset Site Error:	0.00 usft
Survey Program: 188-MWD+HDGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Offset												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,200.00	10,191.15	20,630.00	12,553.55	31.15	125.62	-159.834	-190.13	1,541.26	3,038.72	2,918.79	119.93	25.337	
10,300.00	10,291.04	20,630.00	12,553.55	31.48	125.62	-159.834	-190.13	1,541.26	2,964.45	2,842.75	121.70	24.359	
10,400.00	10,390.94	20,630.00	12,553.55	31.81	125.62	-159.834	-190.13	1,541.26	2,891.73	2,768.19	123.54	23.408	
10,500.00	10,490.84	20,630.00	12,553.55	32.14	125.62	-159.834	-190.13	1,541.26	2,820.68	2,695.24	125.44	22.486	
10,600.00	10,590.74	20,630.00	12,553.55	32.47	125.62	-159.834	-190.13	1,541.26	2,751.44	2,624.02	127.41	21.595	
10,700.00	10,690.63	20,610.30	12,553.93	32.80	125.36	-160.395	-170.43	1,541.15	2,684.01	2,554.71	129.30	20.759	
10,800.00	10,790.53	20,609.95	12,553.94	33.13	125.35	-160.405	-170.08	1,541.15	2,618.79	2,487.40	131.39	19.932	
10,900.00	10,890.43	20,609.59	12,553.94	33.46	125.35	-160.416	-169.72	1,541.15	2,555.81	2,422.28	133.53	19.140	
11,000.00	10,990.32	20,609.22	12,553.95	33.79	125.34	-160.426	-169.35	1,541.15	2,495.26	2,359.53	135.73	18.385	
11,100.00	11,090.22	20,608.84	12,553.96	34.12	125.34	-160.437	-168.97	1,541.15	2,437.30	2,299.35	137.95	17.668	
11,200.00	11,190.12	20,608.46	12,553.97	34.45	125.33	-160.448	-168.59	1,541.15	2,382.14	2,241.93	140.21	16.990	
11,300.00	11,290.02	20,608.06	12,553.98	34.78	125.33	-160.459	-168.19	1,541.15	2,329.96	2,187.50	142.47	16.355	
11,400.00	11,389.91	20,607.67	12,553.98	35.11	125.32	-160.470	-167.80	1,541.15	2,280.98	2,136.26	144.72	15.761	
11,444.32	11,434.18	20,607.49	12,553.99	35.25	125.32	-160.475	-167.62	1,541.15	2,260.34	2,114.64	145.70	15.513	
11,500.00	11,489.83	20,607.14	12,554.00	35.42	125.31	-160.294	-167.27	1,541.14	2,234.94	2,088.02	146.92	15.212	
11,574.22	11,564.04	20,606.32	12,554.01	35.53	125.30	90.473	-166.45	1,541.14	2,201.38	2,052.97	148.40	14.834	
11,600.00	11,589.82	20,605.96	12,554.02	35.53	125.30	90.463	-166.09	1,541.14	2,189.90	2,041.03	148.88	14.710	
11,700.00	11,689.82	20,604.55	12,554.05	35.54	125.28	90.422	-164.68	1,541.14	2,147.75	1,997.09	150.66	14.256	
11,800.00	11,789.82	20,603.11	12,554.08	35.56	125.26	90.380	-163.24	1,541.14	2,109.50	1,957.15	152.34	13.847	
11,900.00	11,889.82	20,601.63	12,554.12	35.58	125.24	90.337	-161.76	1,541.13	2,075.36	1,921.47	153.90	13.485	
12,000.00	11,989.82	20,600.12	12,554.15	35.60	125.22	90.293	-160.26	1,541.13	2,045.55	1,890.26	155.29	13.172	
12,074.22	12,064.04	20,598.98	12,554.18	35.61	125.20	90.260	-159.11	1,541.13	2,026.33	1,870.12	156.21	12.972	
12,100.00	12,089.81	20,598.97	12,554.18	35.62	125.20	-89.795	-159.11	1,541.13	2,020.24	1,863.74	156.50	12.909	
12,150.00	12,139.60	20,601.22	12,554.13	35.69	125.23	-90.849	-161.35	1,541.13	2,009.32	1,852.24	157.08	12.792	
12,200.00	12,188.82	20,606.48	12,554.01	35.77	125.30	-91.684	-166.61	1,541.14	1,999.65	1,841.99	157.66	12.684	
12,250.00	12,237.08	20,614.77	12,553.84	35.86	125.42	-92.299	-174.90	1,541.17	1,991.27	1,833.04	158.23	12.585	
12,300.00	12,284.02	20,630.00	12,553.55	35.96	125.62	-92.594	-190.13	1,541.26	1,984.22	1,825.41	158.81	12.494	
12,350.00	12,329.30	20,643.27	12,553.34	36.06	125.80	-92.822	-203.39	1,541.36	1,978.48	1,819.12	159.36	12.415	
12,400.00	12,372.55	20,665.50	12,553.08	36.17	126.10	-92.711	-225.62	1,541.54	1,973.97	1,814.04	159.94	12.342	
12,450.00	12,413.46	20,691.54	12,552.93	36.28	126.45	-92.427	-251.66	1,541.76	1,970.60	1,810.09	160.51	12.277	
12,500.00	12,451.70	20,724.00	12,552.97	36.40	126.88	-91.943	-284.12	1,542.07	1,968.25	1,807.14	161.12	12.216	
12,550.00	12,487.00	20,749.17	12,553.08	36.51	127.22	-91.574	-309.28	1,542.37	1,966.82	1,805.16	161.65	12.167	
12,600.00	12,519.08	20,778.73	12,553.12	36.63	127.62	-91.080	-338.85	1,542.85	1,966.24	1,804.02	162.22	12.121	
12,613.37	12,527.07	20,786.97	12,553.12	36.66	127.73	-90.939	-347.08	1,543.00	1,966.21	1,803.84	162.37	12.110 CC	
12,650.00	12,547.69	20,818.00	12,553.05	36.75	128.15	-90.417	-378.10	1,543.69	1,966.41	1,803.57	162.85	12.075 ES	
12,700.00	12,572.62	20,842.80	12,553.00	36.86	128.49	-89.986	-402.90	1,544.35	1,967.17	1,803.80	163.37	12.041	
12,750.00	12,593.68	20,876.87	12,553.08	36.99	128.95	-89.440	-436.95	1,545.42	1,968.47	1,804.49	163.98	12.004	
12,800.00	12,610.72	20,912.42	12,553.36	37.11	129.43	-88.925	-472.48	1,546.76	1,970.18	1,805.57	164.61	11.969	
12,850.00	12,623.59	20,960.83	12,553.85	37.23	130.09	-88.391	-520.84	1,548.71	1,972.05	1,806.67	165.38	11.924	
12,900.00	12,632.20	20,991.00	12,554.16	37.36	130.50	-88.046	-550.98	1,549.94	1,973.95	1,807.94	166.01	11.891	
12,950.00	12,636.49	20,991.00	12,554.16	37.49	130.50	-87.768	-550.98	1,549.94	1,976.73	1,810.41	166.32	11.885 SF	
12,974.22	12,637.00	20,991.00	12,554.16	37.55	130.50	-87.593	-550.98	1,549.94	1,978.47	1,812.03	166.44	11.887	
13,000.00	12,637.00	20,991.00	12,554.16	37.62	130.50	-87.593	-550.98	1,549.94	1,980.62	1,814.07	166.55	11.892	
13,100.00	12,637.00	20,991.00	12,554.16	37.92	130.50	-87.593	-550.98	1,549.94	1,992.12	1,825.33	166.79	11.944	
13,200.00	12,637.00	20,991.00	12,554.16	38.28	130.50	-87.593	-550.98	1,549.94	2,008.53	1,841.83	166.70	12.049	
13,300.00	12,637.00	20,991.00	12,554.16	38.69	130.50	-87.593	-550.98	1,549.94	2,029.74	1,863.43	166.30	12.205	
13,400.00	12,637.00	20,991.00	12,554.16	39.15	130.50	-87.593	-550.98	1,549.94	2,055.60	1,889.98	165.62	12.411	
13,500.00	12,637.00	20,991.00	12,554.16	39.66	130.50	-87.593	-550.98	1,549.94	2,085.94	1,921.26	164.67	12.667	
13,600.00	12,637.00	20,991.00	12,554.16	40.23	130.50	-87.593	-550.98	1,549.94	2,120.56	1,957.07	163.49	12.970	
13,700.00	12,637.00	20,991.00	12,554.16	40.84	130.50	-87.593	-550.98	1,549.94	2,159.27	1,997.16	162.11	13.319	
13,800.00	12,637.00	20,991.00	12,554.16	41.49	130.50	-87.593	-550.98	1,549.94	2,201.84	2,041.28	160.56	13.713	
13,900.00	12,637.00	20,991.00	12,554.16	42.20	130.50	-87.593	-550.98	1,549.94	2,248.06	2,089.18	158.87	14.150	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design:		Cattlemen Fed Com - 403H - OH / 68704 - Surveys (H&P 656)										Offset Site Error:		0.00 usft			
Survey Program:		188-MWD+HDGM						Rule Assigned:						Offset Well Error:		1.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)						
14,000.00	12,637.00	20,991.00	12,554.16	42.94	130.50	-87.593	-550.98	1,549.94	2,297.70	2,140.62	157.07	14.628					
14,100.00	12,637.00	20,991.00	12,554.16	43.73	130.50	-87.593	-550.98	1,549.94	2,350.54	2,195.35	155.19	15.146					
14,200.00	12,637.00	20,991.00	12,554.16	44.55	130.50	-87.593	-550.98	1,549.94	2,406.39	2,253.13	153.26	15.702					
14,300.00	12,637.00	20,991.00	12,554.16	45.41	130.50	-87.593	-550.98	1,549.94	2,465.03	2,313.75	151.28	16.294					
14,400.00	12,637.00	20,991.00	12,554.16	46.30	130.50	-87.593	-550.98	1,549.94	2,526.27	2,376.97	149.29	16.922					
14,500.00	12,637.00	20,991.00	12,554.16	47.23	130.50	-87.593	-550.98	1,549.94	2,589.92	2,442.61	147.30	17.582					
14,600.00	12,637.00	20,991.00	12,554.16	48.18	130.50	-87.593	-550.98	1,549.94	2,655.81	2,510.48	145.33	18.274					
14,700.00	12,637.00	20,991.00	12,554.16	49.16	130.50	-87.593	-550.98	1,549.94	2,723.78	2,580.40	143.38	18.997					
14,800.00	12,637.00	20,991.00	12,554.16	50.17	130.50	-87.593	-550.98	1,549.94	2,793.68	2,652.21	141.46	19.748					
14,900.00	12,637.00	20,991.00	12,554.16	51.19	130.50	-87.593	-550.98	1,549.94	2,865.36	2,725.77	139.59	20.527					
15,000.00	12,637.00	20,991.00	12,554.16	52.25	130.50	-87.593	-550.98	1,549.94	2,938.70	2,800.93	137.76	21.331					
15,100.00	12,637.00	20,991.00	12,554.16	53.32	130.50	-87.593	-550.98	1,549.94	3,013.57	2,877.58	135.99	22.160					
15,200.00	12,637.00	20,991.00	12,554.16	54.41	130.50	-87.593	-550.98	1,549.94	3,089.86	2,955.59	134.27	23.012					
15,300.00	12,637.00	20,991.00	12,554.16	55.51	130.50	-87.593	-550.98	1,549.94	3,167.48	3,034.87	132.61	23.886					
15,400.00	12,637.00	20,991.00	12,554.16	56.64	130.50	-87.593	-550.98	1,549.94	3,246.31	3,115.31	131.00	24.781					
15,500.00	12,637.00	20,991.00	12,554.16	57.78	130.50	-87.593	-550.98	1,549.94	3,326.29	3,196.84	129.45	25.695					
15,600.00	12,637.00	20,991.00	12,554.16	58.93	130.50	-87.593	-550.98	1,549.94	3,407.32	3,279.36	127.96	26.627					
15,700.00	12,637.00	20,991.00	12,554.16	60.10	130.50	-87.593	-550.98	1,549.94	3,489.34	3,362.81	126.53	27.577					
15,800.00	12,637.00	20,991.00	12,554.16	61.28	130.50	-87.593	-550.98	1,549.94	3,572.28	3,447.12	125.16	28.543					
15,900.00	12,637.00	20,991.00	12,554.16	62.47	130.50	-87.593	-550.98	1,549.94	3,656.07	3,532.23	123.84	29.523					
16,000.00	12,637.00	20,991.00	12,554.16	63.67	130.50	-87.593	-550.98	1,549.94	3,740.65	3,618.08	122.57	30.518					
16,100.00	12,637.00	20,991.00	12,554.16	64.88	130.50	-87.593	-550.98	1,549.94	3,825.98	3,704.62	121.36	31.526					
16,200.00	12,637.00	20,991.00	12,554.16	66.11	130.50	-87.593	-550.98	1,549.94	3,912.01	3,791.81	120.20	32.547					
16,300.00	12,637.00	20,991.00	12,554.16	67.34	130.50	-87.593	-550.98	1,549.94	3,998.68	3,879.60	119.08	33.579					
16,400.00	12,637.00	20,991.00	12,554.16	68.58	130.50	-87.593	-550.98	1,549.94	4,085.96	3,967.95	118.02	34.622					
16,500.00	12,637.00	20,991.00	12,554.16	69.82	130.50	-87.593	-550.98	1,549.94	4,173.82	4,056.82	117.00	35.674					
16,600.00	12,637.00	20,991.00	12,554.16	71.08	130.50	-87.593	-550.98	1,549.94	4,262.21	4,146.18	116.02	36.736					
16,700.00	12,637.00	20,991.00	12,554.16	72.34	130.50	-87.593	-550.98	1,549.94	4,351.10	4,236.01	115.09	37.806					
16,800.00	12,637.00	20,991.00	12,554.16	73.61	130.50	-87.593	-550.98	1,549.94	4,440.46	4,326.27	114.20	38.885					
16,900.00	12,637.00	20,991.00	12,554.16	74.88	130.50	-87.593	-550.98	1,549.94	4,530.27	4,416.93	113.34	39.970					
17,000.00	12,637.00	20,991.00	12,554.16	76.16	130.50	-87.593	-550.98	1,549.94	4,620.50	4,507.97	112.52	41.062					
17,100.00	12,637.00	20,991.00	12,554.16	77.45	130.50	-87.593	-550.98	1,549.94	4,711.12	4,599.38	111.74	42.160					
17,200.00	12,637.00	20,991.00	12,554.16	78.74	130.50	-87.593	-550.98	1,549.94	4,802.12	4,691.12	111.00	43.264					
17,300.00	12,637.00	20,991.00	12,554.16	80.04	130.50	-87.593	-550.98	1,549.94	4,893.46	4,783.18	110.28	44.372					
17,400.00	12,637.00	20,991.00	12,554.16	81.34	130.50	-87.593	-550.98	1,549.94	4,985.14	4,875.54	109.60	45.485					
17,500.00	12,637.00	20,991.00	12,554.16	82.65	130.50	-87.593	-550.98	1,549.94	5,077.13	4,968.19	108.95	46.602					
17,600.00	12,637.00	20,991.00	12,554.16	83.96	130.50	-87.593	-550.98	1,549.94	5,169.42	5,061.10	108.32	47.723					
17,700.00	12,637.00	20,991.00	12,554.16	85.27	130.50	-87.593	-550.98	1,549.94	5,261.99	5,154.27	107.73	48.847					
17,800.00	12,637.00	20,991.00	12,554.16	86.59	130.50	-87.593	-550.98	1,549.94	5,354.83	5,247.68	107.15	49.973					
17,900.00	12,637.00	20,991.00	12,554.16	87.91	130.50	-87.593	-550.98	1,549.94	5,447.93	5,341.32	106.61	51.102					
18,000.00	12,637.00	20,991.00	12,554.16	89.24	130.50	-87.593	-550.98	1,549.94	5,541.26	5,435.17	106.09	52.233					
18,100.00	12,637.00	20,991.00	12,554.16	90.57	130.50	-87.593	-550.98	1,549.94	5,634.82	5,529.23	105.59	53.366					
18,200.00	12,637.00	20,991.00	12,554.16	91.90	130.50	-87.593	-550.98	1,549.94	5,728.60	5,623.49	105.11	54.500					
18,300.00	12,637.00	20,991.00	12,554.16	93.24	130.50	-87.593	-550.98	1,549.94	5,822.59	5,717.93	104.66	55.635					
18,400.00	12,637.00	20,991.00	12,554.16	94.58	130.50	-87.593	-550.98	1,549.94	5,916.77	5,812.55	104.22	56.771					
18,500.00	12,637.00	20,991.00	12,554.16	95.92	130.50	-87.593	-550.98	1,549.94	6,011.14	5,907.34	103.81	57.908					
18,600.00	12,637.00	20,991.00	12,554.16	97.26	130.50	-87.593	-550.98	1,549.94	6,105.69	6,002.28	103.41	59.044					
18,700.00	12,637.00	20,991.00	12,554.16	98.61	130.50	-87.593	-550.98	1,549.94	6,200.41	6,097.38	103.03	60.181					
18,800.00	12,637.00	20,991.00	12,554.16	99.96	130.50	-87.593	-550.98	1,549.94	6,295.30	6,192.63	102.67	61.318					
18,900.00	12,637.00	20,991.00	12,554.16	101.31	130.50	-87.593	-550.98	1,549.94	6,390.34	6,288.02	102.32	62.454					
19,000.00	12,637.00	20,991.00	12,554.16	102.67	130.50	-87.593	-550.98	1,549.94	6,485.53	6,383.54	101.99	63.589					
19,100.00	12,637.00	20,991.00	12,554.16	104.02	130.50	-87.593	-550.98	1,549.94	6,580.86	6,479.19	101.68	64.724					

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 403H - OH / 68704 - Surveys (H&P 656)													Offset Site Error:	0.00 usft	
Survey Program:		188-MWD+HDGM		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
19,200.00	12,637.00	20,991.00	12,554.16	105.38	130.50	-87.593	-550.98	1,549.94	6,676.33	6,574.95	101.38	65.857			
19,300.00	12,637.00	20,991.00	12,554.16	106.74	130.50	-87.593	-550.98	1,549.94	6,771.93	6,670.84	101.09	66.989			
19,400.00	12,637.00	20,991.00	12,554.16	108.11	130.50	-87.593	-550.98	1,549.94	6,867.66	6,766.84	100.82	68.120			
19,500.00	12,637.00	20,991.00	12,554.16	109.47	130.50	-87.593	-550.98	1,549.94	6,963.50	6,862.95	100.56	69.250			
19,600.00	12,637.00	20,991.00	12,554.16	110.84	130.50	-87.593	-550.98	1,549.94	7,059.46	6,959.15	100.31	70.377			
19,700.00	12,637.00	20,991.00	12,554.16	112.20	130.50	-87.593	-550.98	1,549.94	7,155.53	7,055.46	100.07	71.503			
19,800.00	12,637.00	20,991.00	12,554.16	113.57	130.50	-87.593	-550.98	1,549.94	7,251.71	7,151.86	99.85	72.627			
19,900.00	12,637.00	20,991.00	12,554.16	114.95	130.50	-87.593	-550.98	1,549.94	7,347.99	7,248.36	99.64	73.749			
20,000.00	12,637.00	20,991.00	12,554.16	116.32	130.50	-87.593	-550.98	1,549.94	7,444.37	7,344.94	99.43	74.868			
20,100.00	12,637.00	20,991.00	12,554.16	117.69	130.50	-87.593	-550.98	1,549.94	7,540.84	7,441.60	99.24	75.985			
20,200.00	12,637.00	20,991.00	12,554.16	119.07	130.50	-87.593	-550.98	1,549.94	7,637.40	7,538.34	99.06	77.100			
20,300.00	12,637.00	20,991.00	12,554.16	120.45	130.50	-87.593	-550.98	1,549.94	7,734.05	7,635.17	98.89	78.212			
20,400.00	12,637.00	20,991.00	12,554.16	121.83	130.50	-87.593	-550.98	1,549.94	7,830.79	7,732.06	98.72	79.321			
20,500.00	12,637.00	20,991.00	12,554.16	123.21	130.50	-87.593	-550.98	1,549.94	7,927.60	7,829.03	98.57	80.427			
20,600.00	12,637.00	20,991.00	12,554.16	124.59	130.50	-87.593	-550.98	1,549.94	8,024.50	7,926.07	98.42	81.531			
20,700.00	12,637.00	20,991.00	12,554.16	125.97	130.50	-87.593	-550.98	1,549.94	8,121.47	8,023.18	98.28	82.632			
20,800.00	12,637.00	20,991.00	12,554.16	127.35	130.50	-87.593	-550.98	1,549.94	8,218.51	8,120.35	98.16	83.730			
20,900.00	12,637.00	20,991.00	12,554.16	128.74	130.50	-87.593	-550.98	1,549.94	8,315.62	8,217.58	98.03	84.824			
21,000.00	12,637.00	20,991.00	12,554.16	130.12	130.50	-87.593	-550.98	1,549.94	8,412.80	8,314.88	97.92	85.916			
21,100.00	12,637.00	20,991.00	12,554.16	131.51	130.50	-87.593	-550.98	1,549.94	8,510.04	8,412.23	97.81	87.004			
21,200.00	12,637.00	20,991.00	12,554.16	132.90	130.50	-87.593	-550.98	1,549.94	8,607.35	8,509.64	97.71	88.089			
21,300.00	12,637.00	20,991.00	12,554.16	134.29	130.50	-87.593	-550.98	1,549.94	8,704.72	8,607.10	97.62	89.170			
21,400.00	12,637.00	20,991.00	12,554.16	135.68	130.50	-87.593	-550.98	1,549.94	8,802.15	8,704.61	97.53	90.248			
21,500.00	12,637.00	20,991.00	12,554.16	137.07	130.50	-87.593	-550.98	1,549.94	8,899.63	8,802.18	97.45	91.323			
21,600.00	12,637.00	20,991.00	12,554.16	138.46	130.50	-87.593	-550.98	1,549.94	8,997.17	8,899.79	97.38	92.394			
21,700.00	12,637.00	20,991.00	12,554.16	139.85	130.50	-87.593	-550.98	1,549.94	9,094.76	8,997.45	97.31	93.461			
21,800.00	12,637.00	20,991.00	12,554.16	141.25	130.50	-87.593	-550.98	1,549.94	9,192.41	9,095.16	97.25	94.525			
21,900.00	12,637.00	20,991.00	12,554.16	142.64	130.50	-87.593	-550.98	1,549.94	9,290.10	9,192.91	97.19	95.585			
22,000.00	12,637.00	20,991.00	12,554.16	144.04	130.50	-87.593	-550.98	1,549.94	9,387.85	9,290.71	97.14	96.642			
22,100.00	12,637.00	20,991.00	12,554.16	145.43	130.50	-87.593	-550.98	1,549.94	9,485.64	9,388.54	97.09	97.695			
22,200.00	12,637.00	20,991.00	12,554.16	146.83	130.50	-87.593	-550.98	1,549.94	9,583.48	9,486.42	97.05	98.744			
22,300.00	12,637.00	20,991.00	12,554.16	148.23	130.50	-87.593	-550.98	1,549.94	9,681.36	9,584.34	97.02	99.789			
22,400.00	12,637.00	20,991.00	12,554.16	149.63	130.50	-87.593	-550.98	1,549.94	9,779.28	9,682.29	96.99	100.830			
22,500.00	12,637.00	20,991.00	12,554.16	151.02	130.50	-87.593	-550.98	1,549.94	9,877.24	9,780.28	96.96	101.868			
22,600.00	12,637.00	20,991.00	12,554.16	152.42	130.50	-87.593	-550.98	1,549.94	9,975.25	9,878.31	96.94	102.901			
22,700.00	12,637.00	20,991.00	12,554.16	153.83	130.50	-87.593	-550.98	1,549.94	10,073.29	9,976.37	96.92	103.931			
22,800.00	12,637.00	20,991.00	12,554.16	155.23	130.50	-87.593	-550.98	1,549.94	10,171.38	10,074.47	96.91	104.957			
22,900.00	12,637.00	20,991.00	12,554.16	156.63	130.50	-87.593	-550.98	1,549.94	10,269.50	10,172.60	96.90	105.979			
23,000.00	12,637.00	20,991.00	12,554.16	158.03	130.50	-87.593	-550.98	1,549.94	10,367.65	10,270.76	96.90	106.997			
23,100.00	12,637.00	20,991.00	12,554.16	159.43	130.50	-87.593	-550.98	1,549.94	10,465.84	10,368.95	96.90	108.010			
23,124.22	12,637.00	20,991.00	12,554.16	159.77	130.50	-87.593	-550.98	1,549.94	10,489.63	10,392.73	96.90	108.255			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 422H - OH / 68635 - Surveys (H&P 625)													Offset Site Error: 0.00 usft
Survey Program: 154-MWD+HDGM													Offset Well Error: 1.00 usft
Rule Assigned:													Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	61.21	6.21	1.00	1.00	-0.741	7,900.48	-102.23	7,901.14				
100.00	100.00	169.35	114.34	1.08	1.04	-0.748	7,900.31	-103.19	7,901.00	7,898.87	2.12	3,720.437	
200.00	200.00	267.31	212.30	1.60	1.18	-0.756	7,900.15	-104.21	7,900.85	7,898.06	2.78	2,838.693	
300.00	300.00	370.58	315.56	2.01	1.42	-0.761	7,899.96	-104.93	7,900.67	7,897.24	3.43	2,305.129	
400.00	400.00	481.25	426.24	2.35	1.72	-0.765	7,899.67	-105.43	7,900.42	7,896.34	4.07	1,939.226	
500.00	500.00	589.59	534.57	2.65	2.05	-0.769	7,899.22	-106.01	7,900.01	7,895.30	4.70	1,679.642	
600.00	600.00	677.11	622.09	2.93	2.33	-0.773	7,898.90	-106.54	7,899.65	7,894.39	5.25	1,503.335	
700.00	700.00	765.08	710.06	3.18	2.62	-0.777	7,898.71	-107.13	7,899.45	7,893.65	5.79	1,363.335	
800.00	800.00	856.37	801.35	3.41	2.92	-0.781	7,898.64	-107.73	7,899.38	7,893.04	6.33	1,247.239	
815.46	815.46	870.49	815.46	3.45	2.97	-0.782	7,898.64	-107.82	7,899.37	7,892.96	6.42	1,231.363	
900.00	900.00	934.00	878.98	3.64	3.18	-0.785	7,898.66	-108.20	7,899.43	7,892.61	6.82	1,158.728	
1,000.00	1,000.00	1,032.49	977.46	3.85	3.51	-0.788	7,898.83	-108.66	7,899.61	7,892.25	7.36	1,073.683	
1,100.00	1,100.00	1,119.00	1,063.97	4.05	3.80	-0.790	7,899.15	-108.91	7,899.99	7,892.13	7.85	1,006.295	
1,200.00	1,200.00	1,284.64	1,229.61	4.24	4.37	-0.793	7,899.22	-109.27	7,900.04	7,891.43	8.61	917.978	
1,209.73	1,209.73	1,300.92	1,245.89	4.26	4.42	-0.793	7,899.16	-109.31	7,900.00	7,891.32	8.68	910.191	
1,300.00	1,300.00	1,270.00	1,214.97	4.43	4.32	-0.792	7,899.27	-109.24	7,900.49	7,891.75	8.74	903.723	
1,400.00	1,400.00	1,362.21	1,307.17	4.61	4.62	-0.788	7,899.69	-108.59	7,900.98	7,891.75	9.23	856.022	
1,500.00	1,500.00	1,454.00	1,398.92	4.78	4.93	-0.770	7,901.47	-106.21	7,902.83	7,893.12	9.71	813.736	
1,600.00	1,599.98	1,454.00	1,398.92	5.03	4.93	108.647	7,901.47	-106.21	7,905.30	7,895.46	9.84	803.416	
1,629.90	1,629.86	1,454.00	1,398.92	5.06	4.93	108.625	7,901.47	-106.21	7,906.50	7,896.65	9.85	802.552	
1,700.00	1,699.88	1,520.30	1,465.15	5.14	5.15	108.662	7,903.36	-103.88	7,909.49	7,899.36	10.13	780.823	
1,800.00	1,799.78	1,592.43	1,537.20	5.31	5.39	108.704	7,905.66	-101.33	7,914.09	7,903.59	10.50	753.423	
1,900.00	1,899.68	1,678.82	1,623.48	5.50	5.68	108.753	7,908.69	-98.30	7,919.02	7,908.08	10.94	723.948	
2,000.00	1,999.58	1,798.73	1,743.25	5.70	6.08	108.819	7,912.76	-94.28	7,923.84	7,912.35	11.49	689.594	
2,100.00	2,099.47	1,831.00	1,775.49	5.91	6.19	108.837	7,913.80	-93.25	7,928.82	7,917.08	11.74	675.129	
2,200.00	2,199.37	1,918.19	1,862.54	6.14	6.49	108.890	7,917.06	-89.67	7,934.05	7,921.86	12.19	650.917	
2,300.00	2,299.27	1,968.37	1,912.59	6.37	6.66	108.926	7,919.37	-86.86	7,940.08	7,927.58	12.51	634.922	
2,400.00	2,399.16	2,019.00	1,963.04	6.61	6.84	108.966	7,922.01	-83.48	7,946.74	7,933.92	12.82	619.703	
2,500.00	2,499.06	2,113.65	2,057.28	6.86	7.17	109.046	7,927.26	-76.51	7,953.75	7,940.45	13.30	598.022	
2,600.00	2,598.96	2,208.00	2,151.21	7.12	7.50	109.127	7,932.54	-69.29	7,960.82	7,947.04	13.78	577.865	
2,700.00	2,698.86	2,293.12	2,235.93	7.38	7.80	109.202	7,937.40	-62.58	7,968.02	7,953.79	14.22	560.197	
2,800.00	2,798.75	2,376.98	2,319.37	7.65	8.10	109.276	7,942.35	-55.82	7,975.42	7,960.76	14.67	543.774	
2,900.00	2,898.65	2,471.61	2,413.50	7.92	8.44	109.362	7,948.06	-48.01	7,982.99	7,967.83	15.15	526.853	
3,000.00	2,998.55	2,569.36	2,510.72	8.20	8.80	109.451	7,953.98	-39.71	7,990.59	7,974.94	15.65	510.571	
3,100.00	3,098.44	2,771.57	2,711.88	8.48	9.53	109.638	7,965.03	-22.31	7,997.68	7,981.14	16.54	483.656	
3,200.00	3,198.34	3,223.28	3,162.70	8.77	11.14	109.926	7,975.30	-1.26	8,000.38	7,982.07	18.30	437.097	
3,300.00	3,298.24	3,322.96	3,262.39	9.05	11.49	109.956	7,975.75	-1.33	8,002.37	7,983.57	18.80	425.636	
3,400.00	3,398.14	3,407.27	3,346.69	9.35	11.78	109.982	7,976.19	-1.25	8,004.45	7,985.20	19.25	415.901	
3,500.00	3,498.03	3,488.59	3,428.01	9.64	12.07	110.010	7,976.81	-0.77	8,006.76	7,987.08	19.68	406.826	
3,600.00	3,597.93	3,576.43	3,515.84	9.94	12.37	110.044	7,977.65	0.16	8,009.28	7,989.14	20.14	397.686	
3,700.00	3,697.83	3,670.40	3,609.79	10.23	12.70	110.081	7,978.63	1.43	8,011.90	7,991.28	20.62	388.537	
3,800.00	3,797.72	3,822.96	3,762.34	10.53	13.24	110.143	7,979.96	3.55	8,014.41	7,993.11	21.31	376.172	
3,900.00	3,897.62	3,954.05	3,893.42	10.84	13.69	110.189	7,980.08	4.47	8,016.03	7,994.12	21.91	365.810	
4,000.00	3,997.52	4,035.03	3,974.40	11.14	13.97	110.218	7,980.21	5.04	8,017.77	7,995.42	22.35	358.790	
4,100.00	4,097.42	4,122.03	4,061.40	11.45	14.28	110.250	7,980.55	5.78	8,019.74	7,996.93	22.80	351.706	
4,200.00	4,197.31	4,224.28	4,163.64	11.75	14.64	110.287	7,980.98	6.64	8,021.74	7,998.43	23.31	344.079	
4,300.00	4,297.21	4,326.73	4,266.08	12.06	15.00	110.324	7,981.39	7.42	8,023.72	7,999.90	23.83	336.761	
4,400.00	4,397.11	4,429.45	4,368.81	12.37	15.36	110.359	7,981.76	8.00	8,025.67	8,001.33	24.34	329.729	
4,500.00	4,497.01	4,561.03	4,500.39	12.68	15.82	110.404	7,982.02	8.75	8,027.48	8,002.52	24.95	321.685	
4,600.00	4,596.90	4,692.08	4,631.42	13.00	16.28	110.456	7,981.60	10.40	8,028.75	8,003.18	25.56	314.057	
4,700.00	4,696.80	20,579.00	12,681.74	13.31	124.74	-161.827	-152.29	216.08	7,993.30	7,917.37	75.93	105.273	
4,800.00	4,796.70	20,579.00	12,681.74	13.62	124.74	-161.827	-152.29	216.08	7,893.68	7,817.58	76.10	103.726	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 422H - OH / 68635 - Surveys (H&P 625)												Offset Site Error:	0.00 usft
Survey Program: 154-MWD+HDGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,900.00	4,896.59	20,579.00	12,681.74	13.94	124.74	-161.827	-152.29	216.08	7,794.07	7,717.79	76.28	102.183	
5,000.00	4,996.49	20,579.00	12,681.74	14.25	124.74	-161.827	-152.29	216.08	7,694.46	7,618.01	76.45	100.643	
5,100.00	5,096.39	20,579.00	12,681.74	14.57	124.74	-161.827	-152.29	216.08	7,594.87	7,518.24	76.63	99.106	
5,200.00	5,196.29	20,579.00	12,681.74	14.89	124.74	-161.827	-152.29	216.08	7,495.29	7,418.48	76.82	97.573	
5,300.00	5,296.18	20,579.00	12,681.74	15.20	124.74	-161.827	-152.29	216.08	7,395.73	7,318.72	77.00	96.042	
5,400.00	5,396.08	20,579.00	12,681.74	15.52	124.74	-161.827	-152.29	216.08	7,296.17	7,218.97	77.20	94.516	
5,500.00	5,495.98	20,579.00	12,681.74	15.84	124.74	-161.827	-152.29	216.08	7,196.63	7,119.24	77.39	92.993	
5,600.00	5,595.87	20,579.00	12,681.74	16.16	124.74	-161.827	-152.29	216.08	7,097.09	7,019.51	77.59	91.474	
5,700.00	5,695.77	20,579.00	12,681.74	16.48	124.74	-161.827	-152.29	216.08	6,997.58	6,919.79	77.79	89.959	
5,800.00	5,795.67	20,579.00	12,681.74	16.80	124.74	-161.827	-152.29	216.08	6,898.07	6,820.08	77.99	88.448	
5,900.00	5,895.57	20,579.00	12,681.74	17.12	124.74	-161.827	-152.29	216.08	6,798.58	6,720.39	78.20	86.941	
6,000.00	5,995.46	20,579.00	12,681.74	17.44	124.74	-161.827	-152.29	216.08	6,699.11	6,620.70	78.41	85.439	
6,100.00	6,095.36	20,579.00	12,681.74	17.76	124.74	-161.827	-152.29	216.08	6,599.65	6,521.03	78.62	83.941	
6,200.00	6,195.26	20,579.00	12,681.74	18.09	124.74	-161.827	-152.29	216.08	6,500.21	6,421.37	78.84	82.447	
6,300.00	6,295.16	20,579.00	12,681.74	18.41	124.74	-161.827	-152.29	216.08	6,400.79	6,321.72	79.06	80.958	
6,400.00	6,395.05	20,579.00	12,681.74	18.73	124.74	-161.827	-152.29	216.08	6,301.38	6,222.09	79.29	79.474	
6,500.00	6,494.95	20,579.00	12,681.74	19.06	124.74	-161.827	-152.29	216.08	6,201.99	6,122.47	79.52	77.994	
6,600.00	6,594.85	20,579.00	12,681.74	19.38	124.74	-161.827	-152.29	216.08	6,102.63	6,022.87	79.75	76.519	
6,700.00	6,694.74	20,579.00	12,681.74	19.70	124.74	-161.827	-152.29	216.08	6,003.28	5,923.29	79.99	75.050	
6,800.00	6,794.64	20,579.00	12,681.74	20.03	124.74	-161.827	-152.29	216.08	5,903.96	5,823.72	80.23	73.585	
6,900.00	6,894.54	20,579.00	12,681.74	20.35	124.74	-161.827	-152.29	216.08	5,804.66	5,724.18	80.48	72.126	
7,000.00	6,994.44	20,579.00	12,681.74	20.68	124.74	-161.827	-152.29	216.08	5,705.38	5,624.65	80.73	70.672	
7,100.00	7,094.33	20,579.00	12,681.74	21.00	124.74	-161.827	-152.29	216.08	5,606.13	5,525.14	80.99	69.223	
7,200.00	7,194.23	20,579.00	12,681.74	21.33	124.74	-161.827	-152.29	216.08	5,506.91	5,425.66	81.25	67.780	
7,300.00	7,294.13	20,579.00	12,681.74	21.65	124.74	-161.827	-152.29	216.08	5,407.71	5,326.20	81.51	66.343	
7,400.00	7,394.02	20,579.00	12,681.74	21.98	124.74	-161.827	-152.29	216.08	5,308.55	5,226.77	81.78	64.911	
7,500.00	7,493.92	20,579.00	12,681.74	22.30	124.74	-161.827	-152.29	216.08	5,209.42	5,127.36	82.06	63.485	
7,600.00	7,593.82	20,579.00	12,681.74	22.63	124.74	-161.827	-152.29	216.08	5,110.32	5,027.98	82.34	62.065	
7,700.00	7,693.72	20,579.00	12,681.74	22.95	124.74	-161.827	-152.29	216.08	5,011.25	4,928.63	82.63	60.650	
7,800.00	7,793.61	20,579.00	12,681.74	23.28	124.74	-161.827	-152.29	216.08	4,912.23	4,829.31	82.92	59.242	
7,900.00	7,893.51	20,579.00	12,681.74	23.61	124.74	-161.827	-152.29	216.08	4,813.25	4,730.03	83.22	57.839	
8,000.00	7,993.41	20,579.00	12,681.74	23.93	124.74	-161.827	-152.29	216.08	4,714.30	4,630.78	83.52	56.443	
8,100.00	8,093.31	20,579.00	12,681.74	24.26	124.74	-161.827	-152.29	216.08	4,615.41	4,531.57	83.84	55.053	
8,200.00	8,193.20	20,579.00	12,681.74	24.59	124.74	-161.827	-152.29	216.08	4,516.56	4,432.40	84.16	53.669	
8,300.00	8,293.10	20,579.00	12,681.74	24.92	124.74	-161.827	-152.29	216.08	4,417.76	4,333.28	84.48	52.292	
8,400.00	8,393.00	20,579.00	12,681.74	25.24	124.74	-161.827	-152.29	216.08	4,319.02	4,234.21	84.82	50.921	
8,500.00	8,492.89	20,579.00	12,681.74	25.57	124.74	-161.827	-152.29	216.08	4,220.34	4,135.18	85.16	49.556	
8,600.00	8,592.79	20,579.00	12,681.74	25.90	124.74	-161.827	-152.29	216.08	4,121.73	4,036.21	85.52	48.198	
8,700.00	8,692.69	20,579.00	12,681.74	26.23	124.74	-161.827	-152.29	216.08	4,023.18	3,937.30	85.88	46.847	
8,800.00	8,792.59	20,579.00	12,681.74	26.55	124.74	-161.827	-152.29	216.08	3,924.70	3,838.45	86.25	45.502	
8,900.00	8,892.48	20,579.00	12,681.74	26.88	124.74	-161.827	-152.29	216.08	3,826.31	3,739.67	86.64	44.164	
9,000.00	8,992.38	20,579.00	12,681.74	27.21	124.74	-161.827	-152.29	216.08	3,728.00	3,640.96	87.04	42.832	
9,100.00	9,092.28	20,579.00	12,681.74	27.54	124.74	-161.827	-152.29	216.08	3,629.78	3,542.33	87.45	41.508	
9,200.00	9,192.17	20,579.00	12,681.74	27.87	124.74	-161.827	-152.29	216.08	3,531.66	3,443.78	87.87	40.190	
9,300.00	9,292.07	20,579.00	12,681.74	28.19	124.74	-161.827	-152.29	216.08	3,433.65	3,345.33	88.32	38.879	
9,400.00	9,391.97	20,579.00	12,681.74	28.52	124.74	-161.827	-152.29	216.08	3,335.76	3,246.98	88.77	37.575	
9,500.00	9,491.87	20,579.00	12,681.74	28.85	124.74	-161.827	-152.29	216.08	3,237.99	3,148.74	89.25	36.279	
9,600.00	9,591.76	20,579.00	12,681.74	29.18	124.74	-161.827	-152.29	216.08	3,140.37	3,050.62	89.75	34.989	
9,700.00	9,691.66	20,579.00	12,681.74	29.51	124.74	-161.827	-152.29	216.08	3,042.90	2,952.63	90.28	33.706	
9,800.00	9,791.56	20,579.00	12,681.74	29.84	124.74	-161.827	-152.29	216.08	2,945.60	2,854.78	90.83	32.431	
9,900.00	9,891.45	20,579.00	12,681.74	30.17	124.74	-161.827	-152.29	216.08	2,848.49	2,757.09	91.41	31.163	
10,000.00	9,991.35	20,579.00	12,681.74	30.50	124.74	-161.827	-152.29	216.08	2,751.59	2,659.57	92.02	29.903	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 422H - OH / 68635 - Surveys (H&P 625)													Offset Site Error: 0.00 usft
Survey Program: 154-MWD+HDGM													Offset Well Error: 1.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,100.00	10,091.25	20,579.00	12,681.74	30.83	124.74	-161.827	-152.29	216.08	2,654.92	2,562.25	92.67	28.650	
10,200.00	10,191.15	20,579.00	12,681.74	31.15	124.74	-161.827	-152.29	216.08	2,558.50	2,465.14	93.36	27.404	
10,300.00	10,291.04	20,609.81	12,681.14	31.48	125.15	-159.274	-183.04	214.35	2,461.82	2,367.51	94.30	26.106	
10,400.00	10,390.94	20,610.10	12,681.14	31.81	125.15	-159.250	-183.33	214.33	2,365.98	2,270.89	95.09	24.880	
10,500.00	10,490.84	20,610.40	12,681.14	32.14	125.16	-159.225	-183.63	214.32	2,270.51	2,174.56	95.95	23.663	
10,600.00	10,590.74	20,610.71	12,681.13	32.47	125.16	-159.199	-183.94	214.30	2,175.44	2,078.56	96.88	22.455	
10,700.00	10,690.63	20,611.04	12,681.13	32.80	125.17	-159.171	-184.27	214.29	2,080.84	1,982.95	97.89	21.256	
10,800.00	10,790.53	20,611.39	12,681.13	33.13	125.17	-159.142	-184.62	214.27	1,986.76	1,887.76	99.00	20.068	
10,900.00	10,890.43	20,611.76	12,681.12	33.46	125.17	-159.112	-184.99	214.25	1,893.30	1,793.07	100.23	18.890	
11,000.00	10,990.32	20,612.14	12,681.12	33.79	125.18	-159.080	-185.37	214.23	1,800.53	1,698.94	101.59	17.724	
11,100.00	11,090.22	20,612.55	12,681.12	34.12	125.19	-159.046	-185.78	214.21	1,708.58	1,605.47	103.11	16.571	
11,200.00	11,190.12	20,612.97	12,681.12	34.45	125.19	-159.011	-186.20	214.19	1,617.58	1,512.78	104.81	15.434	
11,300.00	11,290.02	20,613.43	12,681.11	34.78	125.20	-158.973	-186.66	214.17	1,527.72	1,420.98	106.73	14.313	
11,400.00	11,389.91	20,613.91	12,681.11	35.11	125.20	-158.933	-187.14	214.15	1,439.18	1,330.27	108.92	13.214	
11,444.32	11,434.18	20,614.13	12,681.11	35.25	125.21	-158.915	-187.36	214.14	1,400.44	1,290.47	109.98	12.734	
11,500.00	11,489.83	20,614.32	12,681.11	35.42	125.21	-158.180	-187.55	214.13	1,352.00	1,240.62	111.38	12.139	
11,574.22	11,564.04	20,614.27	12,681.11	35.53	125.21	93.339	-187.50	214.13	1,287.53	1,174.21	113.32	11.362	
11,600.00	11,589.82	20,614.19	12,681.11	35.53	125.21	93.332	-187.42	214.14	1,265.22	1,151.21	114.01	11.097	
11,700.00	11,689.82	20,613.86	12,681.11	35.54	125.20	93.303	-187.09	214.15	1,180.06	1,063.11	116.94	10.091	
11,800.00	11,789.82	20,613.51	12,681.11	35.56	125.20	93.271	-186.74	214.17	1,097.40	977.09	120.31	9.121	
11,900.00	11,889.82	20,613.14	12,681.11	35.58	125.19	93.238	-186.37	214.19	1,017.85	893.69	124.16	8.198	
12,000.00	11,989.82	20,612.73	12,681.12	35.60	125.19	93.202	-185.96	214.21	942.21	813.67	128.54	7.330	
12,074.22	12,064.04	20,612.41	12,681.12	35.61	125.18	93.173	-185.64	214.22	889.19	757.06	132.13	6.730	
12,100.00	12,089.81	20,612.64	12,681.12	35.62	125.19	-88.670	-185.87	214.21	871.47	738.03	133.45	6.530	
12,150.00	12,139.60	20,615.10	12,681.10	35.69	125.22	-92.892	-188.33	214.09	838.28	702.16	136.12	6.158	
12,200.00	12,188.82	20,620.33	12,681.08	35.77	125.29	-96.443	-193.55	213.85	806.95	668.03	138.92	5.809	
12,250.00	12,237.08	20,628.46	12,681.08	35.86	125.40	-99.298	-201.68	213.51	777.89	636.08	141.81	5.485	
12,300.00	12,284.02	20,639.60	12,681.16	35.96	125.54	-101.470	-212.81	213.08	751.44	606.72	144.72	5.192	
12,350.00	12,329.30	20,653.82	12,681.37	36.06	125.73	-102.996	-227.01	212.62	727.90	580.31	147.59	4.932	
12,400.00	12,372.55	20,674.00	12,681.90	36.17	126.00	-103.733	-247.18	212.12	707.48	557.16	150.32	4.706	
12,450.00	12,413.46	20,701.14	12,682.74	36.28	126.36	-103.715	-274.30	211.57	690.12	537.27	152.85	4.515	
12,500.00	12,451.70	20,735.90	12,683.63	36.40	126.83	-103.008	-309.05	210.86	675.48	520.34	155.13	4.354	
12,550.00	12,487.00	20,773.34	12,684.37	36.51	127.33	-102.021	-346.47	210.08	663.35	506.17	157.18	4.220	
12,600.00	12,519.08	20,812.35	12,684.97	36.63	127.85	-100.887	-385.47	209.28	653.54	494.53	159.01	4.110	
12,650.00	12,547.69	20,853.75	12,685.45	36.75	128.41	-99.634	-426.86	208.47	645.78	485.18	160.60	4.021	
12,700.00	12,572.62	20,904.54	12,685.65	36.86	129.08	-98.052	-477.63	207.29	639.55	477.65	161.90	3.950	
12,750.00	12,593.68	20,951.17	12,685.42	36.99	129.71	-96.813	-524.24	205.87	634.32	471.21	163.11	3.889	
12,800.00	12,610.72	20,972.00	12,685.32	37.11	129.98	-96.492	-545.06	205.24	630.70	466.20	164.50	3.834	
12,819.61	12,616.27	20,972.00	12,685.32	37.16	129.98	-96.526	-545.06	205.24	630.36	465.38	164.97	3.821 CC, ES	
12,850.00	12,623.59	20,972.00	12,685.32	37.23	129.98	-96.444	-545.06	205.24	631.18	465.75	165.43	3.815 SF	
12,900.00	12,632.20	20,972.00	12,685.32	37.36	129.98	-95.953	-545.06	205.24	636.09	470.62	165.47	3.844	
12,950.00	12,636.49	20,972.00	12,685.32	37.49	129.98	-95.021	-545.06	205.24	645.28	480.64	164.64	3.919	
12,974.22	12,637.00	20,972.00	12,685.32	37.55	129.98	-94.411	-545.06	205.24	651.21	487.26	163.95	3.972	
13,000.00	12,637.00	20,972.00	12,685.32	37.62	129.98	-94.411	-545.06	205.24	658.48	495.45	163.04	4.039	
13,100.00	12,637.00	20,972.00	12,685.32	37.92	129.98	-94.411	-545.06	205.24	695.07	536.98	158.09	4.397	
13,200.00	12,637.00	20,972.00	12,685.32	38.28	129.98	-94.411	-545.06	205.24	743.40	591.70	151.70	4.900	
13,300.00	12,637.00	20,972.00	12,685.32	38.69	129.98	-94.411	-545.06	205.24	801.35	656.60	144.76	5.536	
13,400.00	12,637.00	20,972.00	12,685.32	39.15	129.98	-94.411	-545.06	205.24	867.00	729.13	137.87	6.289	
13,500.00	12,637.00	20,972.00	12,685.32	39.66	129.98	-94.411	-545.06	205.24	938.73	807.33	131.40	7.144	
13,600.00	12,637.00	20,972.00	12,685.32	40.23	129.98	-94.411	-545.06	205.24	1,015.25	889.73	125.52	8.089	
13,700.00	12,637.00	20,972.00	12,685.32	40.84	129.98	-94.411	-545.06	205.24	1,095.56	975.30	120.26	9.110	
13,800.00	12,637.00	20,972.00	12,685.32	41.49	129.98	-94.411	-545.06	205.24	1,178.89	1,063.27	115.62	10.196	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 422H - OH / 68635 - Surveys (H&P 625)													Offset Site Error:	0.00 usft
Survey Program:		154-MWD+HDGM					Rule Assigned:			Offset Well Error:			1.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
13,900.00	12,637.00	20,972.00	12,685.32	42.20	129.98	-94.411	-545.06	205.24	1,264.64	1,153.10	111.54	11.338		
14,000.00	12,637.00	20,972.00	12,685.32	42.94	129.98	-94.411	-545.06	205.24	1,352.34	1,244.38	107.96	12.526		
14,100.00	12,637.00	20,972.00	12,685.32	43.73	129.98	-94.411	-545.06	205.24	1,441.65	1,336.83	104.82	13.754		
14,200.00	12,637.00	20,972.00	12,685.32	44.55	129.98	-94.411	-545.06	205.24	1,532.28	1,430.21	102.06	15.013		
14,300.00	12,637.00	20,972.00	12,685.32	45.41	129.98	-94.411	-545.06	205.24	1,624.01	1,524.37	99.64	16.299		
14,400.00	12,637.00	20,972.00	12,685.32	46.30	129.98	-94.411	-545.06	205.24	1,716.66	1,619.16	97.50	17.607		
14,500.00	12,637.00	20,972.00	12,685.32	47.23	129.98	-94.411	-545.06	205.24	1,810.09	1,714.49	95.61	18.933		
14,600.00	12,637.00	20,972.00	12,685.32	48.18	129.98	-94.411	-545.06	205.24	1,904.20	1,810.27	93.93	20.273		
14,700.00	12,637.00	20,972.00	12,685.32	49.16	129.98	-94.411	-545.06	205.24	1,998.87	1,906.44	92.43	21.625		
14,800.00	12,637.00	20,972.00	12,685.32	50.17	129.98	-94.411	-545.06	205.24	2,094.04	2,002.94	91.10	22.985		
14,900.00	12,637.00	20,972.00	12,685.32	51.19	129.98	-94.411	-545.06	205.24	2,189.64	2,099.73	89.91	24.353		
15,000.00	12,637.00	20,972.00	12,685.32	52.25	129.98	-94.411	-545.06	205.24	2,285.62	2,196.77	88.84	25.726		
15,100.00	12,637.00	20,972.00	12,685.32	53.32	129.98	-94.411	-545.06	205.24	2,381.93	2,294.04	87.89	27.103		
15,200.00	12,637.00	20,972.00	12,685.32	54.41	129.98	-94.411	-545.06	205.24	2,478.53	2,391.51	87.02	28.482		
15,300.00	12,637.00	20,972.00	12,685.32	55.51	129.98	-94.411	-545.06	205.24	2,575.39	2,489.15	86.24	29.862		
15,400.00	12,637.00	20,972.00	12,685.32	56.64	129.98	-94.411	-545.06	205.24	2,672.48	2,586.94	85.54	31.243		
15,500.00	12,637.00	20,972.00	12,685.32	57.78	129.98	-94.411	-545.06	205.24	2,769.78	2,684.88	84.90	32.624		
15,600.00	12,637.00	20,972.00	12,685.32	58.93	129.98	-94.411	-545.06	205.24	2,867.26	2,782.94	84.32	34.004		
15,700.00	12,637.00	20,972.00	12,685.32	60.10	129.98	-94.411	-545.06	205.24	2,964.91	2,881.12	83.80	35.382		
15,800.00	12,637.00	20,972.00	12,685.32	61.28	129.98	-94.411	-545.06	205.24	3,062.72	2,979.40	83.32	36.759		
15,900.00	12,637.00	20,972.00	12,685.32	62.47	129.98	-94.411	-545.06	205.24	3,160.66	3,077.77	82.89	38.133		
16,000.00	12,637.00	20,972.00	12,685.32	63.67	129.98	-94.411	-545.06	205.24	3,258.72	3,176.23	82.49	39.504		
16,100.00	12,637.00	20,972.00	12,685.32	64.88	129.98	-94.411	-545.06	205.24	3,356.90	3,274.77	82.13	40.872		
16,200.00	12,637.00	20,972.00	12,685.32	66.11	129.98	-94.411	-545.06	205.24	3,455.19	3,373.38	81.81	42.237		
16,300.00	12,637.00	20,972.00	12,685.32	67.34	129.98	-94.411	-545.06	205.24	3,553.57	3,472.06	81.51	43.598		
16,400.00	12,637.00	20,972.00	12,685.32	68.58	129.98	-94.411	-545.06	205.24	3,652.04	3,570.80	81.24	44.955		
16,500.00	12,637.00	20,972.00	12,685.32	69.82	129.98	-94.411	-545.06	205.24	3,750.59	3,669.59	80.99	46.308		
16,600.00	12,637.00	20,972.00	12,685.32	71.08	129.98	-94.411	-545.06	205.24	3,849.21	3,768.44	80.77	47.657		
16,700.00	12,637.00	20,972.00	12,685.32	72.34	129.98	-94.411	-545.06	205.24	3,947.90	3,867.34	80.57	49.002		
16,800.00	12,637.00	20,972.00	12,685.32	73.61	129.98	-94.411	-545.06	205.24	4,046.66	3,966.28	80.38	50.342		
16,900.00	12,637.00	20,972.00	12,685.32	74.88	129.98	-94.411	-545.06	205.24	4,145.48	4,065.26	80.22	51.678		
17,000.00	12,637.00	20,972.00	12,685.32	76.16	129.98	-94.411	-545.06	205.24	4,244.35	4,164.28	80.07	53.009		
17,100.00	12,637.00	20,972.00	12,685.32	77.45	129.98	-94.411	-545.06	205.24	4,343.27	4,263.34	79.93	54.335		
17,200.00	12,637.00	20,972.00	12,685.32	78.74	129.98	-94.411	-545.06	205.24	4,442.25	4,362.43	79.82	55.656		
17,300.00	12,637.00	20,972.00	12,685.32	80.04	129.98	-94.411	-545.06	205.24	4,541.26	4,461.55	79.71	56.973		
17,400.00	12,637.00	20,972.00	12,685.32	81.34	129.98	-94.411	-545.06	205.24	4,640.32	4,560.71	79.62	58.284		
17,500.00	12,637.00	20,972.00	12,685.32	82.65	129.98	-94.411	-545.06	205.24	4,739.42	4,659.89	79.53	59.590		
17,600.00	12,637.00	20,972.00	12,685.32	83.96	129.98	-94.411	-545.06	205.24	4,838.56	4,759.10	79.46	60.891		
17,700.00	12,637.00	20,972.00	12,685.32	85.27	129.98	-94.411	-545.06	205.24	4,937.73	4,858.33	79.40	62.187		
17,800.00	12,637.00	20,972.00	12,685.32	86.59	129.98	-94.411	-545.06	205.24	5,036.93	4,957.58	79.35	63.477		
17,900.00	12,637.00	20,972.00	12,685.32	87.91	129.98	-94.411	-545.06	205.24	5,136.17	5,056.86	79.31	64.763		
18,000.00	12,637.00	20,972.00	12,685.32	89.24	129.98	-94.411	-545.06	205.24	5,235.43	5,156.16	79.27	66.043		
18,100.00	12,637.00	20,972.00	12,685.32	90.57	129.98	-94.411	-545.06	205.24	5,334.72	5,255.47	79.25	67.317		
18,200.00	12,637.00	20,972.00	12,685.32	91.90	129.98	-94.411	-545.06	205.24	5,434.04	5,354.81	79.23	68.586		
18,300.00	12,637.00	20,972.00	12,685.32	93.24	129.98	-94.411	-545.06	205.24	5,533.38	5,454.16	79.22	69.850		
18,400.00	12,637.00	20,972.00	12,685.32	94.58	129.98	-94.411	-545.06	205.24	5,632.75	5,553.53	79.21	71.108		
18,500.00	12,637.00	20,972.00	12,685.32	95.92	129.98	-94.411	-545.06	205.24	5,732.13	5,652.92	79.22	72.360		
18,600.00	12,637.00	20,972.00	12,685.32	97.26	129.98	-94.411	-545.06	205.24	5,831.54	5,752.32	79.23	73.607		
18,700.00	12,637.00	20,972.00	12,685.32	98.61	129.98	-94.411	-545.06	205.24	5,930.97	5,851.73	79.24	74.849		
18,800.00	12,637.00	20,972.00	12,685.32	99.96	129.98	-94.411	-545.06	205.24	6,030.42	5,951.16	79.26	76.084		
18,900.00	12,637.00	20,972.00	12,685.32	101.31	129.98	-94.411	-545.06	205.24	6,129.88	6,050.60	79.28	77.315		
19,000.00	12,637.00	20,972.00	12,685.32	102.67	129.98	-94.411	-545.06	205.24	6,229.36	6,150.05	79.32	78.539		

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 422H - OH / 68635 - Surveys (H&P 625)													Offset Site Error:	0.00 usft	
Survey Program:		154-MWD+HDGM <th colspan="3">Offset</th> <th colspan="2">Semi Major Axis</th> <th colspan="2">Offset Wellbore Centre</th> <th colspan="3">Rule Assigned:</th> <th>Offset Well Error:</th> <td>1.00 usft</td>		Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
19,100.00	12,637.00	20,972.00	12,685.32	104.02	129.98	-94.411	-545.06	205.24	6,328.86	6,249.51	79.35	79.758			
19,200.00	12,637.00	20,972.00	12,685.32	105.38	129.98	-94.411	-545.06	205.24	6,428.37	6,348.98	79.39	80.972			
19,300.00	12,637.00	20,972.00	12,685.32	106.74	129.98	-94.411	-545.06	205.24	6,527.90	6,448.47	79.43	82.180			
19,400.00	12,637.00	20,972.00	12,685.32	108.11	129.98	-94.411	-545.06	205.24	6,627.45	6,547.96	79.48	83.382			
19,500.00	12,637.00	20,972.00	12,685.32	109.47	129.98	-94.411	-545.06	205.24	6,727.00	6,647.47	79.54	84.578			
19,600.00	12,637.00	20,972.00	12,685.32	110.84	129.98	-94.411	-545.06	205.24	6,826.57	6,746.98	79.59	85.769			
19,700.00	12,637.00	20,972.00	12,685.32	112.20	129.98	-94.411	-545.06	205.24	6,926.15	6,846.50	79.65	86.954			
19,800.00	12,637.00	20,972.00	12,685.32	113.57	129.98	-94.411	-545.06	205.24	7,025.75	6,946.03	79.72	88.133			
19,900.00	12,637.00	20,972.00	12,685.32	114.95	129.98	-94.411	-545.06	205.24	7,125.35	7,045.57	79.78	89.307			
20,000.00	12,637.00	20,972.00	12,685.32	116.32	129.98	-94.411	-545.06	205.24	7,224.97	7,145.11	79.86	90.475			
20,100.00	12,637.00	20,972.00	12,685.32	117.69	129.98	-94.411	-545.06	205.24	7,324.60	7,244.67	79.93	91.638			
20,200.00	12,637.00	20,972.00	12,685.32	119.07	129.98	-94.411	-545.06	205.24	7,424.23	7,344.23	80.01	92.794			
20,300.00	12,637.00	20,972.00	12,685.32	120.45	129.98	-94.411	-545.06	205.24	7,523.88	7,443.79	80.09	93.945			
20,400.00	12,637.00	20,972.00	12,685.32	121.83	129.98	-94.411	-545.06	205.24	7,623.53	7,543.36	80.17	95.091			
20,500.00	12,637.00	20,972.00	12,685.32	123.21	129.98	-94.411	-545.06	205.24	7,723.20	7,642.94	80.26	96.231			
20,600.00	12,637.00	20,972.00	12,685.32	124.59	129.98	-94.411	-545.06	205.24	7,822.87	7,742.53	80.35	97.365			
20,700.00	12,637.00	20,972.00	12,685.32	125.97	129.98	-94.411	-545.06	205.24	7,922.55	7,842.12	80.44	98.493			
20,800.00	12,637.00	20,972.00	12,685.32	127.35	129.98	-94.411	-545.06	205.24	8,022.24	7,941.71	80.53	99.616			
20,900.00	12,637.00	20,972.00	12,685.32	128.74	129.98	-94.411	-545.06	205.24	8,121.94	8,041.31	80.63	100.733			
21,000.00	12,637.00	20,972.00	12,685.32	130.12	129.98	-94.411	-545.06	205.24	8,221.64	8,140.92	80.73	101.845			
21,100.00	12,637.00	20,972.00	12,685.32	131.51	129.98	-94.411	-545.06	205.24	8,321.35	8,240.53	80.83	102.951			
21,200.00	12,637.00	20,972.00	12,685.32	132.90	129.98	-94.411	-545.06	205.24	8,421.07	8,340.14	80.93	104.051			
21,300.00	12,637.00	20,972.00	12,685.32	134.29	129.98	-94.411	-545.06	205.24	8,520.80	8,439.76	81.04	105.146			
21,400.00	12,637.00	20,972.00	12,685.32	135.68	129.98	-94.411	-545.06	205.24	8,620.53	8,539.38	81.15	106.236			
21,500.00	12,637.00	20,972.00	12,685.32	137.07	129.98	-94.411	-545.06	205.24	8,720.26	8,639.01	81.26	107.319			
21,600.00	12,637.00	20,972.00	12,685.32	138.46	129.98	-94.411	-545.06	205.24	8,820.01	8,738.64	81.37	108.398			
21,700.00	12,637.00	20,972.00	12,685.32	139.85	129.98	-94.411	-545.06	205.24	8,919.76	8,838.28	81.48	109.471			
21,800.00	12,637.00	20,972.00	12,685.32	141.25	129.98	-94.411	-545.06	205.24	9,019.51	8,937.91	81.60	110.538			
21,900.00	12,637.00	20,972.00	12,685.32	142.64	129.98	-94.411	-545.06	205.24	9,119.27	9,037.56	81.71	111.600			
22,000.00	12,637.00	20,972.00	12,685.32	144.04	129.98	-94.411	-545.06	205.24	9,219.04	9,137.20	81.83	112.656			
22,100.00	12,637.00	20,972.00	12,685.32	145.43	129.98	-94.411	-545.06	205.24	9,318.81	9,236.85	81.95	113.707			
22,200.00	12,637.00	20,972.00	12,685.32	146.83	129.98	-94.411	-545.06	205.24	9,418.58	9,336.50	82.08	114.752			
22,300.00	12,637.00	20,972.00	12,685.32	148.23	129.98	-94.411	-545.06	205.24	9,518.36	9,436.16	82.20	115.793			
22,400.00	12,637.00	20,972.00	12,685.32	149.63	129.98	-94.411	-545.06	205.24	9,618.15	9,535.82	82.33	116.827			
22,500.00	12,637.00	20,972.00	12,685.32	151.02	129.98	-94.411	-545.06	205.24	9,717.93	9,635.48	82.46	117.857			
22,600.00	12,637.00	20,972.00	12,685.32	152.42	129.98	-94.411	-545.06	205.24	9,817.73	9,735.14	82.58	118.881			
22,700.00	12,637.00	20,972.00	12,685.32	153.83	129.98	-94.411	-545.06	205.24	9,917.52	9,834.81	82.72	119.899			
22,800.00	12,637.00	20,972.00	12,685.32	155.23	129.98	-94.411	-545.06	205.24	10,017.33	9,934.48	82.85	120.913			
22,900.00	12,637.00	20,972.00	12,685.32	156.63	129.98	-94.411	-545.06	205.24	10,117.13	10,034.15	82.98	121.921			
23,000.00	12,637.00	20,972.00	12,685.32	158.03	129.98	-94.411	-545.06	205.24	10,216.94	10,133.82	83.12	122.924			
23,100.00	12,637.00	20,972.00	12,685.32	159.43	129.98	-94.411	-545.06	205.24	10,316.75	10,233.50	83.25	123.922			
23,124.22	12,637.00	20,972.00	12,685.32	159.77	129.98	-94.411	-545.06	205.24	10,340.93	10,257.64	83.29	124.162			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 432H - OH / 68636 - Surveys (H&P 625)													Offset Site Error:	0.00 usft	
Survey Program:		154-MWD+HDGM								Rule Assigned:				Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.00	0.00	62.88	7.88	1.00	1.00	-1.174	7,899.97	-161.92	7,901.64						
100.00	100.00	174.28	119.28	1.08	1.04	-1.174	7,899.77	-161.90	7,901.45	7,899.32	2.13	3,712.137			
200.00	200.00	274.22	219.22	1.60	1.20	-1.174	7,899.52	-161.91	7,901.21	7,898.41	2.80	2,825.434			
300.00	300.00	382.68	327.68	2.01	1.45	-1.175	7,899.22	-161.99	7,900.93	7,897.47	3.46	2,285.187			
400.00	400.00	494.58	439.58	2.35	1.76	-1.177	7,898.73	-162.32	7,900.50	7,896.39	4.11	1,921.724			
500.00	500.00	576.44	521.44	2.65	2.00	-1.179	7,898.43	-162.51	7,900.13	7,895.48	4.66	1,697.065			
600.00	600.00	663.00	608.00	2.93	2.27	-1.179	7,898.28	-162.48	7,899.96	7,894.76	5.20	1,520.306			
659.70	659.70	714.71	659.70	3.08	2.43	-1.178	7,898.27	-162.40	7,899.94	7,894.43	5.51	1,434.596			
700.00	700.00	751.12	696.12	3.18	2.54	-1.177	7,898.28	-162.34	7,899.95	7,894.22	5.72	1,380.435			
800.00	800.00	845.00	790.00	3.41	2.84	-1.176	7,898.39	-162.16	7,900.06	7,893.80	6.26	1,262.627			
900.00	900.00	957.25	902.25	3.64	3.21	-1.175	7,898.47	-161.96	7,900.13	7,893.29	6.85	1,153.654			
1,000.00	1,000.00	1,056.25	1,001.25	3.85	3.54	-1.173	7,898.39	-161.78	7,900.05	7,892.66	7.39	1,069.222			
1,005.05	1,005.05	1,060.06	1,005.05	3.86	3.56	-1.173	7,898.39	-161.77	7,900.05	7,892.64	7.41	1,065.915			
1,100.00	1,100.00	1,131.52	1,076.52	4.05	3.80	-1.172	7,898.50	-161.59	7,900.19	7,892.35	7.84	1,007.277			
1,200.00	1,200.00	1,313.68	1,258.67	4.24	4.41	-1.168	7,897.82	-161.07	7,899.68	7,891.02	8.65	912.912			
1,300.00	1,300.00	1,373.36	1,318.35	4.43	4.62	-1.169	7,897.52	-161.13	7,899.19	7,890.15	9.04	873.638			
1,345.52	1,345.52	1,400.53	1,345.52	4.51	4.71	-1.170	7,897.49	-161.23	7,899.14	7,889.92	9.22	857.129			
1,400.00	1,400.00	1,461.00	1,405.99	4.61	4.91	-1.172	7,897.64	-161.59	7,899.30	7,889.78	9.52	829.819			
1,405.99	1,405.99	1,461.00	1,405.99	4.62	4.91	-1.172	7,897.64	-161.59	7,899.29	7,889.76	9.53	828.908			
1,500.00	1,500.00	1,461.00	1,405.99	4.78	4.91	-1.172	7,897.64	-161.59	7,899.85	7,890.16	9.69	814.945			
1,600.00	1,599.98	1,540.19	1,485.17	5.03	5.18	108.259	7,898.40	-162.58	7,901.46	7,891.37	10.09	783.253			
1,629.90	1,629.86	1,555.65	1,500.62	5.06	5.23	108.246	7,898.63	-162.86	7,902.29	7,892.14	10.15	778.384			
1,700.00	1,699.88	1,591.87	1,536.83	5.14	5.35	108.251	7,899.29	-163.63	7,904.59	7,894.25	10.33	765.018			
1,800.00	1,799.78	1,649.00	1,593.92	5.31	5.54	108.258	7,900.63	-165.16	7,908.38	7,897.72	10.66	741.847			
1,900.00	1,899.68	1,738.38	1,683.22	5.50	5.85	108.265	7,903.02	-168.12	7,912.53	7,901.42	11.11	712.123			
2,000.00	1,999.58	1,837.00	1,781.73	5.70	6.18	108.268	7,905.64	-172.00	7,916.69	7,905.10	11.59	682.824			
2,100.00	2,099.47	1,930.25	1,874.86	5.91	6.51	108.269	7,908.15	-175.97	7,920.90	7,908.84	12.06	656.682			
2,200.00	2,199.37	2,026.00	1,970.49	6.14	6.84	108.270	7,910.84	-180.02	7,925.21	7,912.67	12.54	632.044			
2,300.00	2,299.27	2,122.25	2,066.61	6.37	7.17	108.271	7,913.59	-184.00	7,929.57	7,916.55	13.02	609.019			
2,400.00	2,399.16	2,215.00	2,159.26	6.61	7.50	108.274	7,916.23	-187.70	7,933.93	7,920.44	13.49	588.161			
2,500.00	2,499.06	2,297.02	2,241.17	6.86	7.78	108.276	7,918.70	-190.92	7,938.45	7,924.53	13.92	570.200			
2,600.00	2,598.96	2,373.25	2,317.30	7.12	8.05	108.279	7,921.23	-193.97	7,943.28	7,928.94	14.33	554.135			
2,700.00	2,698.86	2,451.07	2,395.01	7.38	8.33	108.281	7,924.04	-197.08	7,948.39	7,933.64	14.75	538.765			
2,800.00	2,798.75	2,529.89	2,473.71	7.65	8.61	108.284	7,927.10	-200.08	7,953.77	7,938.59	15.18	524.126			
2,900.00	2,898.65	2,612.75	2,556.45	7.92	8.90	108.289	7,930.54	-203.06	7,959.41	7,943.79	15.61	509.812			
3,000.00	2,998.55	2,709.68	2,653.20	8.20	9.24	108.291	7,934.65	-207.04	7,965.15	7,949.05	16.10	494.693			
3,100.00	3,098.44	2,807.01	2,750.34	8.48	9.59	108.287	7,938.80	-211.77	7,970.93	7,954.34	16.59	480.414			
3,200.00	3,198.34	2,905.46	2,848.58	8.77	9.94	108.285	7,943.02	-216.37	7,976.73	7,959.64	17.09	466.819			
3,300.00	3,298.24	3,040.93	2,983.82	9.05	10.43	108.288	7,948.70	-221.87	7,982.47	7,964.75	17.72	450.552			
3,400.00	3,398.14	3,229.44	3,172.11	9.35	11.10	108.299	7,954.90	-228.60	7,987.23	7,968.69	18.54	430.858			
3,500.00	3,498.03	3,380.41	3,322.94	9.64	11.64	108.308	7,958.51	-233.99	7,991.09	7,971.86	19.22	415.695			
3,600.00	3,597.93	3,491.00	3,433.42	9.94	12.04	108.310	7,960.77	-238.46	7,994.64	7,974.87	19.76	404.496			
3,700.00	3,697.83	3,605.13	3,547.40	10.23	12.44	108.308	7,962.93	-243.64	7,998.04	7,977.72	20.32	393.628			
3,800.00	3,797.72	3,721.51	3,663.64	10.53	12.86	108.304	7,964.89	-249.28	8,001.25	7,980.36	20.88	383.172			
3,900.00	3,897.62	3,826.56	3,768.58	10.84	13.24	108.306	7,966.53	-253.61	8,004.32	7,982.91	21.40	373.991			
4,000.00	3,997.52	3,932.56	3,874.54	11.14	13.62	108.321	7,968.15	-256.08	8,007.32	7,985.40	21.93	365.186			
4,100.00	4,097.42	4,043.19	3,985.15	11.45	14.01	108.343	7,969.75	-257.76	8,010.22	7,987.75	22.47	356.549			
4,200.00	4,197.31	4,149.34	4,091.28	11.75	14.39	108.367	7,971.16	-259.06	8,013.00	7,990.01	22.99	348.551			
4,300.00	4,297.21	4,250.77	4,192.70	12.06	14.75	108.389	7,972.46	-260.37	8,015.74	7,992.25	23.50	341.151			
4,400.00	4,397.11	4,331.96	4,273.87	12.37	15.03	108.407	7,973.55	-261.38	8,018.55	7,994.62	23.93	335.101			
4,500.00	4,497.01	4,401.36	4,343.26	12.68	15.28	108.426	7,974.75	-261.67	8,021.71	7,997.39	24.32	329.865			
4,600.00	4,596.90	4,477.00	4,418.88	13.00	15.54	108.452	7,976.36	-261.29	8,025.26	8,000.53	24.73	324.518			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design:		Cattlemen Fed Com - 432H - OH / 68636 - Surveys (H&P 625)											Offset Site Error: 0.00 usft		
Survey Program:		154-MWD+HDGM					Rule Assigned:							Offset Well Error: 1.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
4,700.00	4,696.80	20,211.00	12,709.13	13.31	117.92	115.729	311.09	-423.94	8,025.58	7,953.09	72.49	110.709			
4,800.00	4,796.70	20,211.00	12,709.13	13.62	117.92	115.729	311.09	-423.94	7,925.76	7,853.11	72.65	109.095			
4,900.00	4,896.59	20,211.00	12,709.13	13.94	117.92	115.729	311.09	-423.94	7,825.95	7,753.14	72.81	107.485			
5,000.00	4,996.49	20,211.00	12,709.13	14.25	117.92	115.729	311.09	-423.94	7,726.14	7,653.17	72.97	105.879			
5,100.00	5,096.39	20,248.52	12,710.41	14.57	118.42	116.267	273.60	-423.91	7,625.93	7,552.49	73.43	103.847			
5,200.00	5,196.29	20,249.82	12,710.47	14.89	118.44	116.288	272.30	-423.90	7,526.10	7,452.49	73.61	102.240			
5,300.00	5,296.18	20,251.14	12,710.53	15.20	118.46	116.310	270.98	-423.89	7,426.27	7,352.48	73.79	100.637			
5,400.00	5,396.08	20,252.49	12,710.59	15.52	118.48	116.332	269.63	-423.89	7,326.45	7,252.48	73.98	99.038			
5,500.00	5,495.98	20,253.87	12,710.65	15.84	118.49	116.355	268.25	-423.88	7,226.64	7,152.47	74.16	97.444			
5,600.00	5,595.87	20,255.28	12,710.72	16.16	118.51	116.379	266.84	-423.87	7,126.82	7,052.47	74.35	95.854			
5,700.00	5,695.77	20,256.72	12,710.78	16.48	118.53	116.403	265.41	-423.86	7,027.02	6,952.47	74.54	94.268			
5,800.00	5,795.67	20,258.19	12,710.85	16.80	118.55	116.428	263.94	-423.85	6,927.21	6,852.47	74.74	92.687			
5,900.00	5,895.57	20,259.69	12,710.92	17.12	118.57	116.454	262.44	-423.83	6,827.41	6,752.48	74.93	91.112			
6,000.00	5,995.46	20,261.23	12,711.00	17.44	118.59	116.481	260.90	-423.82	6,727.62	6,652.48	75.13	89.541			
6,100.00	6,095.36	20,262.80	12,711.08	17.76	118.61	116.509	259.33	-423.81	6,627.83	6,552.49	75.34	87.975			
6,200.00	6,195.26	20,264.41	12,711.16	18.09	118.64	116.538	257.73	-423.79	6,528.04	6,452.50	75.54	86.415			
6,300.00	6,295.16	20,266.05	12,711.24	18.41	118.66	116.567	256.08	-423.78	6,428.26	6,352.51	75.75	84.859			
6,400.00	6,395.05	20,267.73	12,711.33	18.73	118.68	116.598	254.40	-423.76	6,328.48	6,252.52	75.96	83.310			
6,500.00	6,494.95	20,269.46	12,711.42	19.06	118.70	116.630	252.68	-423.74	6,228.71	6,152.54	76.18	81.766			
6,600.00	6,594.85	20,305.00	12,713.60	19.38	119.18	117.372	217.21	-423.22	6,129.30	6,052.63	76.67	79.943			
6,700.00	6,694.74	20,305.00	12,713.60	19.70	119.18	117.372	217.21	-423.22	6,029.51	5,952.63	76.88	78.431			
6,800.00	6,794.64	20,305.00	12,713.60	20.03	119.18	117.372	217.21	-423.22	5,929.72	5,852.64	77.09	76.924			
6,900.00	6,894.54	20,305.00	12,713.60	20.35	119.18	117.372	217.21	-423.22	5,829.94	5,752.65	77.30	75.423			
7,000.00	6,994.44	20,305.00	12,713.60	20.68	119.18	117.372	217.21	-423.22	5,730.17	5,652.66	77.51	73.929			
7,100.00	7,094.33	20,305.00	12,713.60	21.00	119.18	117.372	217.21	-423.22	5,630.40	5,552.68	77.73	72.440			
7,200.00	7,194.23	20,305.00	12,713.60	21.33	119.18	117.372	217.21	-423.22	5,530.65	5,452.70	77.94	70.957			
7,300.00	7,294.13	20,305.00	12,713.60	21.65	119.18	117.372	217.21	-423.22	5,430.90	5,352.74	78.16	69.481			
7,400.00	7,394.02	20,305.00	12,713.60	21.98	119.18	117.372	217.21	-423.22	5,331.16	5,252.78	78.39	68.011			
7,500.00	7,493.92	20,305.00	12,713.60	22.30	119.18	117.372	217.21	-423.22	5,231.44	5,152.82	78.61	66.547			
7,600.00	7,593.82	20,305.00	12,713.60	22.63	119.18	117.372	217.21	-423.22	5,131.72	5,052.88	78.84	65.090			
7,700.00	7,693.72	20,305.00	12,713.60	22.95	119.18	117.372	217.21	-423.22	5,032.01	4,952.94	79.07	63.639			
7,800.00	7,793.61	20,305.00	12,713.60	23.28	119.18	117.372	217.21	-423.22	4,932.32	4,853.02	79.30	62.196			
7,900.00	7,893.51	20,305.00	12,713.60	23.61	119.18	117.372	217.21	-423.22	4,832.64	4,753.10	79.54	60.759			
8,000.00	7,993.41	20,305.00	12,713.60	23.93	119.18	117.372	217.21	-423.22	4,732.97	4,653.19	79.77	59.329			
8,100.00	8,093.31	20,305.00	12,713.60	24.26	119.18	117.372	217.21	-423.22	4,633.32	4,553.30	80.01	57.907			
8,200.00	8,193.20	20,310.19	12,713.96	24.59	119.25	117.495	212.04	-423.12	4,533.67	4,453.37	80.30	56.459			
8,300.00	8,293.10	20,319.33	12,714.59	24.92	119.37	117.720	202.92	-422.95	4,434.03	4,353.41	80.62	54.997			
8,400.00	8,393.00	20,328.44	12,715.22	25.24	119.49	117.954	193.83	-422.78	4,334.39	4,253.44	80.95	53.544			
8,500.00	8,492.89	20,337.51	12,715.85	25.57	119.61	118.199	184.79	-422.62	4,234.75	4,153.47	81.28	52.101			
8,600.00	8,592.79	20,346.54	12,716.47	25.90	119.73	118.454	175.78	-422.46	4,135.11	4,053.50	81.61	50.669			
8,700.00	8,692.69	20,355.54	12,717.09	26.23	119.85	118.720	166.80	-422.30	4,035.46	3,953.52	81.94	49.246			
8,800.00	8,792.59	20,364.50	12,717.70	26.55	119.97	119.000	157.86	-422.15	3,935.82	3,853.53	82.28	47.834			
8,900.00	8,892.48	20,373.43	12,718.31	26.88	120.09	119.292	148.96	-422.01	3,836.17	3,753.55	82.62	46.431			
9,000.00	8,992.38	20,382.31	12,718.92	27.21	120.21	119.599	140.09	-421.87	3,736.52	3,653.56	82.96	45.039			
9,100.00	9,092.28	20,391.17	12,719.52	27.54	120.33	119.922	131.26	-421.73	3,636.88	3,553.57	83.31	43.656			
9,200.00	9,192.17	20,401.23	12,720.20	27.87	120.47	120.311	121.22	-421.57	3,537.23	3,453.56	83.67	42.278			
9,300.00	9,292.07	20,420.29	12,721.45	28.19	120.72	121.124	102.20	-421.27	3,437.56	3,353.45	84.11	40.869			
9,400.00	9,391.97	20,437.92	12,722.56	28.52	120.96	121.983	84.61	-420.98	3,337.88	3,253.33	84.55	39.479			
9,500.00	9,491.87	20,454.29	12,723.54	28.85	121.18	122.890	68.28	-420.70	3,238.17	3,153.19	84.98	38.107			
9,600.00	9,591.76	20,469.51	12,724.41	29.18	121.38	123.848	53.08	-420.43	3,138.44	3,053.05	85.40	36.751			
9,700.00	9,691.66	20,483.71	12,725.19	29.51	121.57	124.862	38.91	-420.17	3,038.70	2,952.89	85.81	35.411			
9,800.00	9,791.56	20,496.98	12,725.89	29.84	121.75	125.934	25.66	-419.92	2,938.95	2,852.72	86.22	34.085			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 432H - OH / 68636 - Surveys (H&P 625)												Offset Site Error:	0.00 usft
Survey Program: 154-MWD+HDGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Offset												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,900.00	9,891.45	20,509.42	12,726.51	30.17	121.92	127.068	13.24	-419.67	2,839.18	2,752.55	86.63	32.773	
10,000.00	9,991.35	20,520.12	12,727.04	30.50	122.06	128.174	2.56	-419.42	2,739.40	2,652.38	87.02	31.479	
10,100.00	10,091.25	20,530.79	12,727.54	30.83	122.20	129.408	-8.10	-419.17	2,639.62	2,552.20	87.42	30.194	
10,200.00	10,191.15	20,540.88	12,728.00	31.15	122.34	130.718	-18.18	-418.92	2,539.82	2,452.01	87.82	28.922	
10,300.00	10,291.04	20,550.45	12,728.42	31.48	122.47	132.111	-27.73	-418.67	2,440.02	2,351.81	88.21	27.661	
10,400.00	10,390.94	20,559.52	12,728.80	31.81	122.59	133.591	-36.79	-418.41	2,340.22	2,251.61	88.60	26.412	
10,500.00	10,490.84	20,568.13	12,729.16	32.14	122.70	135.164	-45.40	-418.16	2,240.41	2,151.41	89.00	25.174	
10,600.00	10,590.74	20,576.33	12,729.48	32.47	122.81	136.836	-53.58	-417.92	2,140.59	2,051.20	89.39	23.947	
10,700.00	10,690.63	20,584.13	12,729.79	32.80	122.92	138.611	-61.38	-417.67	2,040.77	1,950.99	89.78	22.730	
10,800.00	10,790.53	20,593.44	12,730.13	33.13	123.04	141.000	-70.67	-417.38	1,940.95	1,850.76	90.19	21.520	
10,900.00	10,890.43	20,603.70	12,730.48	33.46	123.18	144.026	-80.92	-417.07	1,841.12	1,750.50	90.62	20.317	
11,000.00	10,990.32	20,612.86	12,730.77	33.79	123.30	147.143	-90.07	-416.82	1,741.29	1,650.25	91.04	19.126	
11,100.00	11,090.22	20,621.09	12,731.01	34.12	123.41	150.341	-98.30	-416.61	1,641.45	1,549.99	91.46	17.948	
11,200.00	11,190.12	20,628.52	12,731.21	34.45	123.51	153.605	-105.73	-416.43	1,541.61	1,449.74	91.87	16.780	
11,300.00	11,290.02	20,635.28	12,731.38	34.78	123.61	156.916	-112.48	-416.28	1,441.78	1,349.49	92.28	15.623	
11,400.00	11,389.91	20,641.43	12,731.52	35.11	123.69	160.255	-118.63	-416.15	1,341.95	1,249.25	92.70	14.477	
11,444.32	11,434.18	20,643.99	12,731.58	35.25	123.72	161.738	-121.19	-416.10	1,297.71	1,204.83	92.88	13.972	
11,500.00	11,489.83	20,646.81	12,731.64	35.42	123.76	155.824	-124.00	-416.05	1,242.10	1,148.99	93.11	13.340	
11,574.22	11,564.04	20,649.57	12,731.69	35.53	123.80	21.025	-126.76	-416.00	1,167.92	1,074.52	93.40	12.505	
11,600.00	11,589.82	20,650.33	12,731.71	35.53	123.81	21.697	-127.52	-415.98	1,142.15	1,048.65	93.50	12.216	
11,700.00	11,689.82	20,653.13	12,731.76	35.54	123.84	24.536	-130.33	-415.93	1,042.17	948.29	93.88	11.101	
11,800.00	11,789.82	20,655.72	12,731.81	35.56	123.88	27.804	-132.91	-415.89	942.19	847.92	94.27	9.995	
11,900.00	11,889.82	20,658.11	12,731.85	35.58	123.91	31.581	-135.31	-415.85	842.21	747.55	94.66	8.897	
12,000.00	11,989.82	20,660.34	12,731.89	35.60	123.94	35.954	-137.53	-415.81	742.23	647.18	95.05	7.809	
12,074.22	12,064.04	20,661.89	12,731.92	35.61	123.96	39.639	-139.08	-415.79	668.03	572.69	95.34	7.007	
12,100.00	12,089.81	20,663.12	12,731.94	35.62	123.98	-166.622	-140.31	-415.77	642.28	546.82	95.45	6.729	
12,150.00	12,139.60	20,669.41	12,732.03	35.69	124.06	-173.826	-146.60	-415.68	592.57	496.87	95.70	6.192	
12,200.00	12,188.82	20,680.61	12,732.18	35.77	124.21	-175.677	-157.79	-415.54	543.48	447.48	95.99	5.662	
12,250.00	12,237.08	20,694.61	12,732.32	35.86	124.40	-176.505	-171.80	-415.36	495.36	399.06	96.30	5.144	
12,300.00	12,284.02	20,712.42	12,732.50	35.96	124.64	-176.887	-189.60	-415.03	448.60	351.96	96.64	4.642	
12,350.00	12,329.30	20,734.21	12,732.70	36.06	124.93	-177.004	-211.38	-414.44	403.54	306.53	97.02	4.160	
12,400.00	12,372.55	20,759.80	12,732.92	36.17	125.28	-176.910	-236.96	-413.52	360.54	263.10	97.44	3.700	
12,450.00	12,413.46	20,789.20	12,733.14	36.28	125.67	-176.600	-266.32	-412.14	319.91	221.99	97.92	3.267	
12,500.00	12,451.70	20,822.21	12,733.32	36.40	126.12	-176.057	-299.28	-410.29	281.94	183.45	98.49	2.863	
12,550.00	12,487.00	20,858.25	12,733.42	36.51	126.60	-175.237	-335.24	-407.93	246.90	147.74	99.16	2.490	
12,600.00	12,519.08	20,898.13	12,733.36	36.63	127.14	-174.065	-375.02	-405.08	215.01	114.99	100.02	2.150	
12,650.00	12,547.69	20,940.85	12,732.90	36.75	127.72	-172.674	-417.65	-402.37	186.30	85.21	101.09	1.843	
12,700.00	12,572.62	20,986.39	12,731.91	36.86	128.33	-171.035	-463.11	-399.87	160.85	58.43	102.42	1.570	
12,750.00	12,593.68	21,034.24	12,729.87	36.99	128.98	-169.036	-510.86	-397.50	138.42	34.30	104.12	1.329 Level 3	
12,800.00	12,610.72	21,080.31	12,727.34	37.11	129.60	-166.844	-556.81	-395.32	119.53	13.29	106.23	1.125 Level 3	
12,844.67	12,622.42	21,094.00	12,726.58	37.22	129.79	-166.261	-570.46	-394.68	110.04	4.08	105.96	1.039 Level 3, CC, ES, SF	
12,850.00	12,623.59	21,094.00	12,726.58	37.23	129.79	-166.257	-570.46	-394.68	110.19	4.87	105.32	1.046 Level 3	
12,900.00	12,632.20	21,094.00	12,726.58	37.36	129.79	-165.858	-570.46	-394.68	125.46	30.27	95.19	1.318 Level 3	
12,950.00	12,636.49	21,094.00	12,726.58	37.49	129.79	-164.685	-570.46	-394.68	158.86	73.19	85.67	1.854	
12,974.22	12,637.00	21,094.00	12,726.58	37.55	129.79	-163.736	-570.46	-394.68	178.72	96.10	82.62	2.163	
13,000.00	12,637.00	21,094.00	12,726.58	37.62	129.79	-163.736	-570.46	-394.68	201.16	120.93	80.23	2.507	
13,100.00	12,637.00	21,094.00	12,726.58	37.92	129.79	-163.736	-570.46	-394.68	293.44	218.02	75.42	3.891	
13,200.00	12,637.00	21,094.00	12,726.58	38.28	129.79	-163.736	-570.46	-394.68	389.55	315.94	73.61	5.292	
13,300.00	12,637.00	21,094.00	12,726.58	38.69	129.79	-163.736	-570.46	-394.68	487.22	414.43	72.79	6.693	
13,400.00	12,637.00	21,094.00	12,726.58	39.15	129.79	-163.736	-570.46	-394.68	585.68	513.31	72.38	8.092	
13,500.00	12,637.00	21,094.00	12,726.58	39.66	129.79	-163.736	-570.46	-394.68	684.59	612.44	72.15	9.488	
13,600.00	12,637.00	21,094.00	12,726.58	40.23	129.79	-163.736	-570.46	-394.68	783.78	711.75	72.03	10.881	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 432H - OH / 68636 - Surveys (H&P 625)												Offset Site Error:	0.00 usft
Survey Program: 154-MWD+HDCM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
13,700.00	12,637.00	21,094.00	12,726.58	40.84	129.79	-163.736	-570.46	-394.68	883.15	811.19	71.96	12.273	
13,800.00	12,637.00	21,094.00	12,726.58	41.49	129.79	-163.736	-570.46	-394.68	982.64	910.72	71.93	13.662	
13,900.00	12,637.00	21,094.00	12,726.58	42.20	129.79	-163.736	-570.46	-394.68	1,082.23	1,010.32	71.92	15.049	
14,000.00	12,637.00	21,094.00	12,726.58	42.94	129.79	-163.736	-570.46	-394.68	1,181.89	1,109.97	71.92	16.433	
14,100.00	12,637.00	21,094.00	12,726.58	43.73	129.79	-163.736	-570.46	-394.68	1,281.60	1,209.67	71.94	17.815	
14,200.00	12,637.00	21,094.00	12,726.58	44.55	129.79	-163.736	-570.46	-394.68	1,381.36	1,309.40	71.96	19.195	
14,300.00	12,637.00	21,094.00	12,726.58	45.41	129.79	-163.736	-570.46	-394.68	1,481.15	1,409.15	72.00	20.573	
14,400.00	12,637.00	21,094.00	12,726.58	46.30	129.79	-163.736	-570.46	-394.68	1,580.96	1,508.93	72.03	21.948	
14,500.00	12,637.00	21,094.00	12,726.58	47.23	129.79	-163.736	-570.46	-394.68	1,680.80	1,608.72	72.07	23.320	
14,600.00	12,637.00	21,094.00	12,726.58	48.18	129.79	-163.736	-570.46	-394.68	1,780.65	1,708.53	72.12	24.690	
14,700.00	12,637.00	21,094.00	12,726.58	49.16	129.79	-163.736	-570.46	-394.68	1,880.52	1,808.35	72.17	26.057	
14,800.00	12,637.00	21,094.00	12,726.58	50.17	129.79	-163.736	-570.46	-394.68	1,980.40	1,908.18	72.22	27.421	
14,900.00	12,637.00	21,094.00	12,726.58	51.19	129.79	-163.736	-570.46	-394.68	2,080.30	2,008.02	72.28	28.783	
15,000.00	12,637.00	21,094.00	12,726.58	52.25	129.79	-163.736	-570.46	-394.68	2,180.20	2,107.87	72.33	30.141	
15,100.00	12,637.00	21,094.00	12,726.58	53.32	129.79	-163.736	-570.46	-394.68	2,280.11	2,207.72	72.39	31.496	
15,200.00	12,637.00	21,094.00	12,726.58	54.41	129.79	-163.736	-570.46	-394.68	2,380.03	2,307.58	72.46	32.848	
15,300.00	12,637.00	21,094.00	12,726.58	55.51	129.79	-163.736	-570.46	-394.68	2,479.96	2,407.44	72.52	34.197	
15,400.00	12,637.00	21,094.00	12,726.58	56.64	129.79	-163.736	-570.46	-394.68	2,579.89	2,507.30	72.59	35.542	
15,500.00	12,637.00	21,094.00	12,726.58	57.78	129.79	-163.736	-570.46	-394.68	2,679.83	2,607.17	72.66	36.884	
15,600.00	12,637.00	21,094.00	12,726.58	58.93	129.79	-163.736	-570.46	-394.68	2,779.77	2,707.04	72.73	38.222	
15,700.00	12,637.00	21,094.00	12,726.58	60.10	129.79	-163.736	-570.46	-394.68	2,879.72	2,806.92	72.80	39.557	
15,800.00	12,637.00	21,094.00	12,726.58	61.28	129.79	-163.736	-570.46	-394.68	2,979.66	2,906.79	72.87	40.888	
15,900.00	12,637.00	21,094.00	12,726.58	62.47	129.79	-163.736	-570.46	-394.68	3,079.62	3,006.67	72.95	42.215	
16,000.00	12,637.00	21,094.00	12,726.58	63.67	129.79	-163.736	-570.46	-394.68	3,179.57	3,106.54	73.03	43.539	
16,100.00	12,637.00	21,094.00	12,726.58	64.88	129.79	-163.736	-570.46	-394.68	3,279.53	3,206.42	73.11	44.858	
16,200.00	12,637.00	21,094.00	12,726.58	66.11	129.79	-163.736	-570.46	-394.68	3,379.49	3,306.30	73.19	46.174	
16,300.00	12,637.00	21,094.00	12,726.58	67.34	129.79	-163.736	-570.46	-394.68	3,479.45	3,406.18	73.27	47.485	
16,400.00	12,637.00	21,094.00	12,726.58	68.58	129.79	-163.736	-570.46	-394.68	3,579.42	3,506.06	73.36	48.793	
16,500.00	12,637.00	21,094.00	12,726.58	69.82	129.79	-163.736	-570.46	-394.68	3,679.39	3,605.94	73.45	50.096	
16,600.00	12,637.00	21,094.00	12,726.58	71.08	129.79	-163.736	-570.46	-394.68	3,779.36	3,705.82	73.54	51.395	
16,700.00	12,637.00	21,094.00	12,726.58	72.34	129.79	-163.736	-570.46	-394.68	3,879.33	3,805.70	73.63	52.689	
16,800.00	12,637.00	21,094.00	12,726.58	73.61	129.79	-163.736	-570.46	-394.68	3,979.30	3,905.58	73.72	53.980	
16,900.00	12,637.00	21,094.00	12,726.58	74.88	129.79	-163.736	-570.46	-394.68	4,079.27	4,005.46	73.81	55.266	
17,000.00	12,637.00	21,094.00	12,726.58	76.16	129.79	-163.736	-570.46	-394.68	4,179.24	4,105.34	73.91	56.547	
17,100.00	12,637.00	21,094.00	12,726.58	77.45	129.79	-163.736	-570.46	-394.68	4,279.22	4,205.22	74.00	57.824	
17,200.00	12,637.00	21,094.00	12,726.58	78.74	129.79	-163.736	-570.46	-394.68	4,379.20	4,305.09	74.10	59.096	
17,300.00	12,637.00	21,094.00	12,726.58	80.04	129.79	-163.736	-570.46	-394.68	4,479.18	4,404.97	74.20	60.364	
17,400.00	12,637.00	21,094.00	12,726.58	81.34	129.79	-163.736	-570.46	-394.68	4,579.15	4,504.85	74.30	61.627	
17,500.00	12,637.00	21,094.00	12,726.58	82.65	129.79	-163.736	-570.46	-394.68	4,679.13	4,604.73	74.41	62.885	
17,600.00	12,637.00	21,094.00	12,726.58	83.96	129.79	-163.736	-570.46	-394.68	4,779.11	4,704.60	74.51	64.139	
17,700.00	12,637.00	21,094.00	12,726.58	85.27	129.79	-163.736	-570.46	-394.68	4,879.10	4,804.48	74.62	65.387	
17,800.00	12,637.00	21,094.00	12,726.58	86.59	129.79	-163.736	-570.46	-394.68	4,979.08	4,904.35	74.73	66.631	
17,900.00	12,637.00	21,094.00	12,726.58	87.91	129.79	-163.736	-570.46	-394.68	5,079.06	5,004.23	74.83	67.870	
18,000.00	12,637.00	21,094.00	12,726.58	89.24	129.79	-163.736	-570.46	-394.68	5,179.04	5,104.10	74.95	69.105	
18,100.00	12,637.00	21,094.00	12,726.58	90.57	129.79	-163.736	-570.46	-394.68	5,279.03	5,203.97	75.06	70.334	
18,200.00	12,637.00	21,094.00	12,726.58	91.90	129.79	-163.736	-570.46	-394.68	5,379.01	5,303.84	75.17	71.558	
18,300.00	12,637.00	21,094.00	12,726.58	93.24	129.79	-163.736	-570.46	-394.68	5,479.00	5,403.71	75.28	72.777	
18,400.00	12,637.00	21,094.00	12,726.58	94.58	129.79	-163.736	-570.46	-394.68	5,578.98	5,503.58	75.40	73.992	
18,500.00	12,637.00	21,094.00	12,726.58	95.92	129.79	-163.736	-570.46	-394.68	5,678.97	5,603.45	75.52	75.201	
18,600.00	12,637.00	21,094.00	12,726.58	97.26	129.79	-163.736	-570.46	-394.68	5,778.96	5,703.32	75.64	76.405	
18,700.00	12,637.00	21,094.00	12,726.58	98.61	129.79	-163.736	-570.46	-394.68	5,878.94	5,803.19	75.76	77.604	
18,800.00	12,637.00	21,094.00	12,726.58	99.96	129.79	-163.736	-570.46	-394.68	5,978.93	5,903.05	75.88	78.798	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 432H - OH / 68636 - Surveys (H&P 625)												Offset Site Error:	0.00 usft				
Survey Program:		154-MWD+HDGM				Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance	Warning	Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
18,900.00	12,637.00	21,094.00	12,726.58	101.31	129.79	-163.736	-570.46	-394.68	6,078.92	6,002.92	76.00	79.987					
19,000.00	12,637.00	21,094.00	12,726.58	102.67	129.79	-163.736	-570.46	-394.68	6,178.91	6,102.79	76.12	81.171					
19,100.00	12,637.00	21,094.00	12,726.58	104.02	129.79	-163.736	-570.46	-394.68	6,278.90	6,202.65	76.25	82.349					
19,200.00	12,637.00	21,094.00	12,726.58	105.38	129.79	-163.736	-570.46	-394.68	6,378.89	6,302.51	76.37	83.523					
19,300.00	12,637.00	21,094.00	12,726.58	106.74	129.79	-163.736	-570.46	-394.68	6,478.88	6,402.37	76.50	84.691					
19,400.00	12,637.00	21,094.00	12,726.58	108.11	129.79	-163.736	-570.46	-394.68	6,578.86	6,502.24	76.63	85.854					
19,500.00	12,637.00	21,094.00	12,726.58	109.47	129.79	-163.736	-570.46	-394.68	6,678.85	6,602.10	76.76	87.012					
19,600.00	12,637.00	21,094.00	12,726.58	110.84	129.79	-163.736	-570.46	-394.68	6,778.85	6,701.96	76.89	88.165					
19,700.00	12,637.00	21,094.00	12,726.58	112.20	129.79	-163.736	-570.46	-394.68	6,878.84	6,801.82	77.02	89.312					
19,800.00	12,637.00	21,094.00	12,726.58	113.57	129.79	-163.736	-570.46	-394.68	6,978.83	6,901.67	77.15	90.454					
19,900.00	12,637.00	21,094.00	12,726.58	114.95	129.79	-163.736	-570.46	-394.68	7,078.82	7,001.53	77.29	91.591					
20,000.00	12,637.00	21,094.00	12,726.58	116.32	129.79	-163.736	-570.46	-394.68	7,178.81	7,101.39	77.42	92.723					
20,100.00	12,637.00	21,094.00	12,726.58	117.69	129.79	-163.736	-570.46	-394.68	7,278.80	7,201.24	77.56	93.849					
20,200.00	12,637.00	21,094.00	12,726.58	119.07	129.79	-163.736	-570.46	-394.68	7,378.79	7,301.10	77.70	94.971					
20,300.00	12,637.00	21,094.00	12,726.58	120.45	129.79	-163.736	-570.46	-394.68	7,478.79	7,400.95	77.83	96.087					
20,400.00	12,637.00	21,094.00	12,726.58	121.83	129.79	-163.736	-570.46	-394.68	7,578.78	7,500.80	77.97	97.198					
20,500.00	12,637.00	21,094.00	12,726.58	123.21	129.79	-163.736	-570.46	-394.68	7,678.77	7,600.66	78.11	98.303					
20,600.00	12,637.00	21,094.00	12,726.58	124.59	129.79	-163.736	-570.46	-394.68	7,778.76	7,700.51	78.25	99.403					
20,700.00	12,637.00	21,094.00	12,726.58	125.97	129.79	-163.736	-570.46	-394.68	7,878.76	7,800.36	78.40	100.499					
20,800.00	12,637.00	21,094.00	12,726.58	127.35	129.79	-163.736	-570.46	-394.68	7,978.75	7,900.21	78.54	101.589					
20,900.00	12,637.00	21,094.00	12,726.58	128.74	129.79	-163.736	-570.46	-394.68	8,078.74	8,000.06	78.68	102.673					
21,000.00	12,637.00	21,094.00	12,726.58	130.12	129.79	-163.736	-570.46	-394.68	8,178.74	8,099.91	78.83	103.753					
21,100.00	12,637.00	21,094.00	12,726.58	131.51	129.79	-163.736	-570.46	-394.68	8,278.73	8,199.75	78.98	104.827					
21,200.00	12,637.00	21,094.00	12,726.58	132.90	129.79	-163.736	-570.46	-394.68	8,378.72	8,299.60	79.12	105.896					
21,300.00	12,637.00	21,094.00	12,726.58	134.29	129.79	-163.736	-570.46	-394.68	8,478.72	8,399.45	79.27	106.960					
21,400.00	12,637.00	21,094.00	12,726.58	135.68	129.79	-163.736	-570.46	-394.68	8,578.71	8,499.29	79.42	108.019					
21,500.00	12,637.00	21,094.00	12,726.58	137.07	129.79	-163.736	-570.46	-394.68	8,678.70	8,599.14	79.57	109.072					
21,600.00	12,637.00	21,094.00	12,726.58	138.46	129.79	-163.736	-570.46	-394.68	8,778.70	8,698.98	79.72	110.121					
21,700.00	12,637.00	21,094.00	12,726.58	139.85	129.79	-163.736	-570.46	-394.68	8,878.69	8,798.82	79.87	111.164					
21,800.00	12,637.00	21,094.00	12,726.58	141.25	129.79	-163.736	-570.46	-394.68	8,978.69	8,898.67	80.02	112.202					
21,900.00	12,637.00	21,094.00	12,726.58	142.64	129.79	-163.736	-570.46	-394.68	9,078.68	8,998.51	80.18	113.235					
22,000.00	12,637.00	21,094.00	12,726.58	144.04	129.79	-163.736	-570.46	-394.68	9,178.68	9,098.35	80.33	114.263					
22,100.00	12,637.00	21,094.00	12,726.58	145.43	129.79	-163.736	-570.46	-394.68	9,278.67	9,198.19	80.48	115.286					
22,200.00	12,637.00	21,094.00	12,726.58	146.83	129.79	-163.736	-570.46	-394.68	9,378.67	9,298.03	80.64	116.304					
22,300.00	12,637.00	21,094.00	12,726.58	148.23	129.79	-163.736	-570.46	-394.68	9,478.66	9,397.87	80.80	117.317					
22,400.00	12,637.00	21,094.00	12,726.58	149.63	129.79	-163.736	-570.46	-394.68	9,578.66	9,497.71	80.95	118.324					
22,500.00	12,637.00	21,094.00	12,726.58	151.02	129.79	-163.736	-570.46	-394.68	9,678.65	9,597.54	81.11	119.327					
22,600.00	12,637.00	21,094.00	12,726.58	152.42	129.79	-163.736	-570.46	-394.68	9,778.65	9,697.38	81.27	120.325					
22,700.00	12,637.00	21,094.00	12,726.58	153.83	129.79	-163.736	-570.46	-394.68	9,878.64	9,797.22	81.43	121.318					
22,800.00	12,637.00	21,094.00	12,726.58	155.23	129.79	-163.736	-570.46	-394.68	9,978.64	9,897.05	81.59	122.305					
22,900.00	12,637.00	21,094.00	12,726.58	156.63	129.79	-163.736	-570.46	-394.68	10,078.64	9,996.89	81.75	123.288					
23,000.00	12,637.00	21,094.00	12,726.58	158.03	129.79	-163.736	-570.46	-394.68	10,178.63	10,096.72	81.91	124.266					
23,100.00	12,637.00	21,094.00	12,726.58	159.43	129.79	-163.736	-570.46	-394.68	10,278.63	10,196.55	82.07	125.239					
23,124.22	12,637.00	21,094.00	12,726.58	159.77	129.79	-163.736	-570.46	-394.68	10,302.85	10,220.73	82.11	125.474					

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 433H - OH / 68696 - Surveys (H&P 656)													Offset Site Error: 0.00 usft
Survey Program: 188-MWD+HDGM													Offset Well Error: 1.00 usft
Rule Assigned:													Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	51.37	-2.63	1.00	1.00	8.286	7,916.61	1,152.88	8,000.11				
100.00	100.00	146.50	92.50	1.08	1.03	8.288	7,916.61	1,153.26	8,000.18	7,998.07	2.11	3,792.815	
200.00	200.00	232.79	178.78	1.60	1.10	8.293	7,916.65	1,153.90	8,000.33	7,997.64	2.70	2,968.397	
300.00	300.00	312.23	258.23	2.01	1.24	8.297	7,916.87	1,154.56	8,000.73	7,997.48	3.25	2,461.577	
400.00	400.00	401.57	347.56	2.35	1.45	8.303	7,917.30	1,155.39	8,001.34	7,997.53	3.81	2,102.472	
500.00	500.00	495.93	441.91	2.65	1.71	8.309	7,917.81	1,156.41	8,002.03	7,997.66	4.37	1,831.842	
600.00	600.00	577.20	523.17	2.93	1.96	8.316	7,918.34	1,157.41	8,002.85	7,997.96	4.88	1,638.262	
700.00	700.00	653.99	599.95	3.18	2.20	8.322	7,919.05	1,158.43	8,003.95	7,998.58	5.38	1,488.429	
800.00	800.00	728.69	674.64	3.41	2.44	8.328	7,919.97	1,159.36	8,005.35	7,999.50	5.85	1,368.242	
900.00	900.00	800.44	746.38	3.64	2.67	8.326	7,921.24	1,159.30	8,007.10	8,000.80	6.30	1,270.627	
1,000.00	1,000.00	882.00	827.90	3.85	2.93	8.314	7,923.20	1,157.81	8,009.20	8,002.42	6.78	1,181.839	
1,100.00	1,100.00	951.00	896.84	4.05	3.16	8.297	7,925.20	1,155.75	8,011.60	8,004.40	7.20	1,112.403	
1,200.00	1,200.00	1,030.96	976.71	4.24	3.42	8.275	7,927.75	1,152.95	8,014.26	8,006.61	7.66	1,046.640	
1,300.00	1,300.00	1,120.58	1,066.06	4.43	3.69	8.253	7,930.79	1,144.42	8,016.86	8,008.35	8.51	941.688	
1,400.00	1,400.00	1,210.12	1,155.60	4.61	3.95	8.180	7,933.84	1,140.75	8,017.41	8,007.97	9.44	848.903	
1,500.00	1,500.00	1,299.66	1,245.12	4.78	4.18	8.182	7,935.86	1,140.98	8,017.46	8,007.51	9.96	805.244	
1,600.00	1,599.98	1,389.20	1,334.62	5.03	4.42	8.164	7,937.93	1,140.92	8,018.34	8,007.90	10.44	768.369	
1,629.90	1,629.86	1,478.76	1,423.07	5.06	4.45	8.163	7,938.96	1,140.89	8,018.91	8,008.36	10.55	759.727	
1,700.00	1,699.88	1,568.30	1,512.40	5.14	4.57	8.165	7,939.00	1,140.84	8,020.43	8,009.56	10.86	738.401	
1,800.00	1,799.78	1,657.84	1,601.91	5.31	4.74	8.169	7,939.03	1,140.53	8,022.53	8,011.12	11.40	703.470	
1,900.00	1,899.68	1,747.38	1,691.46	5.50	4.92	8.172	7,939.90	1,138.41	8,024.30	8,012.29	12.01	668.369	
2,000.00	1,999.58	1,836.92	1,780.34	5.70	5.10	8.171	7,939.97	1,136.87	8,026.15	8,013.77	12.38	648.505	
2,100.00	2,099.47	1,926.46	1,869.87	5.91	5.31	8.172	7,936.34	1,135.02	8,028.41	8,015.65	12.76	628.981	
2,200.00	2,199.37	2,016.00	1,964.41	6.14	5.54	8.172	7,937.14	1,132.59	8,031.06	8,017.87	13.20	608.501	
2,300.00	2,299.27	2,105.54	2,053.25	6.37	5.77	8.173	7,938.21	1,129.25	8,033.65	8,019.87	13.78	582.850	
2,400.00	2,399.16	2,195.08	2,144.91	6.61	6.01	8.174	7,938.78	1,127.34	8,036.14	8,021.92	14.22	565.100	
2,500.00	2,499.06	2,284.62	2,234.54	6.86	6.25	8.175	7,939.54	1,125.61	8,039.11	8,024.52	14.59	551.052	
2,600.00	2,598.96	2,374.16	2,324.21	7.12	6.51	8.175	7,941.39	1,122.34	8,042.69	8,027.62	15.07	533.732	
2,700.00	2,698.86	2,463.70	2,413.84	7.38	6.77	8.175	7,942.47	1,120.64	8,046.53	8,031.14	15.38	523.051	
2,800.00	2,798.75	2,553.24	2,503.39	7.65	7.03	8.175	7,944.81	1,117.33	8,050.62	8,034.74	15.88	507.036	
2,900.00	2,898.65	2,642.78	2,592.93	7.92	7.29	8.175	7,947.13	1,114.54	8,054.80	8,038.44	16.37	492.148	
3,000.00	2,998.55	2,732.32	2,682.06	8.20	7.57	8.176	7,949.44	1,112.24	8,059.11	8,042.26	16.85	478.336	
3,100.00	3,098.44	2,821.86	2,771.41	8.48	7.84	8.177	7,951.83	1,110.29	8,063.56	8,046.23	17.33	465.256	
3,200.00	3,198.34	2,911.40	2,860.95	8.77	8.12	8.177	7,954.43	1,107.76	8,068.14	8,050.32	17.82	452.827	
3,300.00	3,298.24	3,000.94	2,950.49	9.05	8.40	8.177	7,957.30	1,104.31	8,072.84	8,054.54	18.31	440.961	
3,400.00	3,398.14	3,090.48	3,040.03	9.35	8.69	8.177	7,960.42	1,100.59	8,077.63	8,058.82	18.82	429.312	
3,500.00	3,498.03	3,180.02	3,129.57	9.64	8.98	8.177	7,962.94	1,097.84	8,082.51	8,063.25	19.26	419.690	
3,600.00	3,597.93	3,269.56	3,219.11	9.94	9.27	8.177	7,965.78	1,095.28	8,087.63	8,067.91	19.72	410.161	
3,700.00	3,697.83	3,359.10	3,308.65	10.23	9.56	8.178	7,968.40	1,093.51	8,093.15	8,073.02	20.13	402.024	
3,800.00	3,797.72	3,448.64	3,398.19	10.53	9.85	8.178	7,972.44	1,091.33	8,098.98	8,078.33	20.66	392.096	
3,900.00	3,897.62	3,538.18	3,487.73	10.84	10.14	8.179	7,977.76	1,087.48	8,104.47	8,083.14	21.33	379.978	
4,000.00	3,997.52	3,627.72	3,577.27	11.14	10.44	8.180	7,980.95	1,084.92	8,109.82	8,088.01	21.81	371.884	
4,100.00	4,097.42	3,717.26	3,666.81	11.45	10.75	8.180	7,984.87	1,081.94	8,115.20	8,092.84	22.36	362.983	
4,200.00	4,197.31	3,806.80	3,756.35	11.75	11.05	8.181	7,990.40	1,077.21	8,120.44	8,097.34	23.10	351.545	
4,300.00	4,297.21	3,896.34	3,845.89	12.06	11.36	8.179	7,995.09	1,068.16	8,124.23	8,100.31	23.93	339.542	
4,400.00	4,397.11	3,985.88	3,935.43	12.37	11.66	8.178	7,997.42	1,062.80	8,127.85	8,103.38	24.47	332.220	
4,500.00	4,497.01	4,075.42	4,024.97	12.68	11.97	8.177	7,999.85	1,057.15	8,131.39	8,106.36	25.04	324.793	
4,600.00	4,596.90	4,164.96	4,114.51	13.00	12.28	8.176	8,002.17	1,051.33	8,134.78	8,109.16	25.62	317.537	
4,700.00	4,696.80	4,254.50	4,204.05	13.31	12.59	-163.903	-84.50	942.58	8,076.43	7,998.46	77.96	103.591	
4,800.00	4,796.70	4,344.04	4,293.59	13.62	12.90	-163.918	-84.12	942.52	7,978.01	7,899.82	78.18	102.043	
4,900.00	4,896.59	4,433.58	4,383.13	13.94	13.21	-163.934	-83.72	942.46	7,879.62	7,801.22	78.40	100.499	
5,000.00	4,996.49	4,523.12	4,472.67	14.25	13.52	-163.951	-83.32	942.40	7,781.28	7,702.65	78.63	98.958	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 433H - OH / 68696 - Surveys (H&P 656)												Offset Site Error:	0.00 usft
Survey Program: 188-MWD+H2GM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Offset												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	5,096.39	20,778.66	12,701.11	14.57	123.67	-163.967	-82.91	942.34	7,682.98	7,604.12	78.86	97.420	
5,200.00	5,196.29	20,778.23	12,701.12	14.89	123.66	-163.984	-82.49	942.28	7,584.73	7,505.63	79.10	95.886	
5,300.00	5,296.18	20,777.79	12,701.13	15.20	123.66	-164.002	-82.06	942.21	7,486.52	7,407.17	79.34	94.355	
5,400.00	5,396.08	20,777.34	12,701.14	15.52	123.65	-164.020	-81.61	942.15	7,388.36	7,308.77	79.59	92.828	
5,500.00	5,495.98	20,776.88	12,701.15	15.84	123.64	-164.039	-81.16	942.08	7,290.25	7,210.40	79.85	91.304	
5,600.00	5,595.87	20,776.41	12,701.17	16.16	123.64	-164.058	-80.69	942.01	7,192.19	7,112.08	80.10	89.785	
5,700.00	5,695.77	20,775.92	12,701.18	16.48	123.63	-164.077	-80.20	941.93	7,094.18	7,013.81	80.37	88.270	
5,800.00	5,795.67	20,775.42	12,701.19	16.80	123.62	-164.098	-79.71	941.86	6,996.24	6,915.59	80.64	86.759	
5,900.00	5,895.57	20,774.90	12,701.21	17.12	123.62	-164.118	-79.20	941.78	6,898.35	6,817.43	80.92	85.252	
6,000.00	5,995.46	20,774.37	12,701.22	17.44	123.61	-164.140	-78.67	941.70	6,800.52	6,719.32	81.20	83.750	
6,100.00	6,095.36	20,773.82	12,701.24	17.76	123.60	-164.162	-78.13	941.62	6,702.75	6,621.26	81.49	82.252	
6,200.00	6,195.26	20,773.26	12,701.25	18.09	123.59	-164.184	-77.58	941.53	6,605.06	6,523.27	81.79	80.759	
6,300.00	6,295.16	20,772.68	12,701.27	18.41	123.59	-164.208	-77.00	941.44	6,507.43	6,425.34	82.09	79.270	
6,400.00	6,395.05	20,772.08	12,701.28	18.73	123.58	-164.232	-76.41	941.35	6,409.87	6,327.47	82.40	77.787	
6,500.00	6,494.95	20,771.46	12,701.30	19.06	123.57	-164.257	-75.80	941.26	6,312.39	6,229.67	82.72	76.308	
6,600.00	6,594.85	20,770.82	12,701.32	19.38	123.56	-164.282	-75.17	941.16	6,214.99	6,131.95	83.05	74.835	
6,700.00	6,694.74	20,770.17	12,701.34	19.70	123.55	-164.309	-74.52	941.06	6,117.68	6,034.30	83.38	73.367	
6,800.00	6,794.64	20,769.49	12,701.36	20.03	123.54	-164.336	-73.85	940.95	6,020.45	5,936.72	83.73	71.905	
6,900.00	6,894.54	20,768.79	12,701.38	20.35	123.53	-164.364	-73.16	940.84	5,923.32	5,839.24	84.08	70.448	
7,000.00	6,994.44	20,768.06	12,701.40	20.68	123.53	-164.393	-72.44	940.73	5,826.28	5,741.84	84.44	68.997	
7,100.00	7,094.33	20,767.31	12,701.43	21.00	123.52	-164.423	-71.70	940.61	5,729.34	5,644.53	84.81	67.551	
7,200.00	7,194.23	20,766.53	12,701.45	21.33	123.50	-164.455	-70.93	940.49	5,632.51	5,547.32	85.20	66.112	
7,300.00	7,294.13	20,765.73	12,701.47	21.65	123.49	-164.487	-70.14	940.37	5,535.79	5,450.20	85.59	64.678	
7,400.00	7,394.02	20,764.89	12,701.50	21.98	123.48	-164.521	-69.32	940.23	5,439.20	5,353.20	85.99	63.251	
7,500.00	7,493.92	20,764.03	12,701.53	22.30	123.47	-164.556	-68.46	940.10	5,342.72	5,256.31	86.41	61.830	
7,600.00	7,593.82	20,763.13	12,701.56	22.63	123.46	-164.592	-67.58	939.96	5,246.38	5,159.54	86.84	60.415	
7,700.00	7,693.72	20,762.20	12,701.59	22.95	123.45	-164.629	-66.65	939.81	5,150.17	5,062.89	87.28	59.007	
7,800.00	7,793.61	20,761.23	12,701.62	23.28	123.43	-164.668	-65.70	939.65	5,054.12	4,966.38	87.74	57.606	
7,900.00	7,893.51	20,760.22	12,701.65	23.61	123.42	-164.709	-64.70	939.49	4,958.21	4,870.01	88.21	56.212	
8,000.00	7,993.41	20,759.17	12,701.69	23.93	123.41	-164.751	-63.67	939.32	4,862.48	4,773.79	88.69	54.824	
8,100.00	8,093.31	20,758.07	12,701.73	24.26	123.39	-164.795	-62.59	939.14	4,766.92	4,677.72	89.19	53.444	
8,200.00	8,193.20	20,756.93	12,701.77	24.59	123.38	-164.841	-61.46	938.96	4,671.54	4,581.82	89.71	52.072	
8,300.00	8,293.10	20,755.74	12,701.81	24.92	123.36	-164.889	-60.29	938.77	4,576.36	4,486.11	90.25	50.707	
8,400.00	8,393.00	20,754.50	12,701.86	25.24	123.34	-164.939	-59.06	938.56	4,481.38	4,390.58	90.81	49.349	
8,500.00	8,492.89	20,753.20	12,701.91	25.57	123.33	-164.991	-57.78	938.35	4,386.64	4,295.25	91.39	48.000	
8,600.00	8,592.79	20,751.83	12,701.96	25.90	123.31	-165.046	-56.44	938.12	4,292.12	4,200.14	91.99	46.659	
8,700.00	8,692.69	20,750.41	12,702.01	26.23	123.29	-165.103	-55.03	937.88	4,197.87	4,105.25	92.61	45.327	
8,800.00	8,792.59	20,748.91	12,702.07	26.55	123.27	-165.164	-53.56	937.63	4,103.88	4,010.61	93.26	44.003	
8,900.00	8,892.48	20,747.34	12,702.13	26.88	123.25	-165.227	-52.01	937.37	4,010.18	3,916.24	93.94	42.688	
9,000.00	8,992.38	20,745.69	12,702.20	27.21	123.22	-165.294	-50.38	937.09	3,916.79	3,822.14	94.65	41.383	
9,100.00	9,092.28	20,722.00	12,703.31	27.54	122.91	-166.248	-27.10	932.89	3,823.86	3,728.73	95.13	40.197	
9,200.00	9,192.17	20,722.00	12,703.31	27.87	122.91	-166.248	-27.10	932.89	3,731.14	3,635.22	95.92	38.899	
9,300.00	9,292.07	20,722.00	12,703.31	28.19	122.91	-166.248	-27.10	932.89	3,638.81	3,542.06	96.75	37.612	
9,400.00	9,391.97	20,719.31	12,703.44	28.52	122.87	-166.356	-24.46	932.35	3,546.89	3,449.31	97.58	36.349	
9,500.00	9,491.87	20,714.99	12,703.65	28.85	122.81	-166.530	-20.24	931.48	3,455.42	3,356.99	98.44	35.104	
9,600.00	9,591.76	20,710.67	12,703.86	29.18	122.76	-166.704	-16.02	930.61	3,364.43	3,265.09	99.34	33.869	
9,700.00	9,691.66	20,706.36	12,704.08	29.51	122.70	-166.878	-11.80	929.74	3,273.96	3,173.67	100.29	32.646	
9,800.00	9,791.56	20,702.04	12,704.29	29.84	122.64	-167.052	-7.57	928.87	3,184.05	3,082.76	101.29	31.435	
9,900.00	9,891.45	20,738.00	12,702.46	30.17	123.12	-165.603	-42.80	935.80	3,094.83	2,991.93	102.90	30.075	
10,000.00	9,991.35	20,725.38	12,703.13	30.50	122.95	-166.112	-30.41	933.51	3,006.26	2,902.34	103.92	28.927	
10,100.00	10,091.25	20,713.08	12,703.77	30.83	122.79	-166.607	-18.34	931.22	2,918.41	2,813.40	105.01	27.791	
10,200.00	10,191.15	20,701.08	12,704.39	31.15	122.63	-167.092	-6.58	928.94	2,831.34	2,725.17	106.17	26.668	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 433H - OH / 68696 - Surveys (H&P 656)												Offset Site Error:	0.00 usft			
Survey Program:		188-MWD+HDCM					Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
10,300.00	10,291.04	20,689.38	12,704.98	31.48	122.47	-167.564	4.88	926.67	2,745.14	2,637.73	107.40	25.559				
10,400.00	10,390.94	20,677.97	12,705.55	31.81	122.32	-168.026	16.05	924.40	2,659.88	2,551.16	108.72	24.465				
10,500.00	10,490.84	20,666.83	12,706.10	32.14	122.17	-168.476	26.95	922.15	2,575.67	2,465.54	110.12	23.389				
10,600.00	10,590.74	20,655.95	12,706.63	32.47	122.03	-168.917	37.57	919.91	2,492.60	2,380.98	111.62	22.331				
10,700.00	10,690.63	20,645.34	12,707.13	32.80	121.88	-169.347	47.94	917.67	2,410.80	2,297.59	113.21	21.294				
10,800.00	10,790.53	20,634.97	12,707.62	33.13	121.75	-169.768	58.06	915.46	2,330.40	2,215.49	114.91	20.280				
10,900.00	10,890.43	20,628.00	12,707.95	33.46	121.65	-170.050	64.85	913.95	2,251.56	2,134.77	116.78	19.280				
11,000.00	10,990.32	20,628.00	12,707.95	33.79	121.65	-170.050	64.85	913.95	2,174.45	2,055.54	118.90	18.287				
11,100.00	11,090.22	20,628.00	12,707.95	34.12	121.65	-170.050	64.85	913.95	2,099.27	1,978.12	121.15	17.328				
11,200.00	11,190.12	20,616.92	12,708.46	34.45	121.51	-170.500	75.66	911.54	2,026.20	1,902.90	123.30	16.433				
11,300.00	11,290.02	20,613.64	12,708.61	34.78	121.46	-170.633	78.85	910.84	1,955.53	1,829.80	125.73	15.553				
11,400.00	11,389.91	20,610.40	12,708.76	35.11	121.42	-170.765	82.02	910.14	1,887.51	1,759.23	128.28	14.714				
11,444.32	11,434.18	20,608.97	12,708.82	35.25	121.40	-170.823	83.42	909.84	1,858.29	1,728.85	129.44	14.356				
11,500.00	11,489.83	20,607.12	12,708.91	35.42	121.38	-170.746	85.21	909.44	1,822.02	1,691.11	130.91	13.918				
11,574.22	11,564.04	20,604.51	12,709.02	35.53	121.34	79.885	87.76	908.88	1,773.95	1,641.14	132.81	13.357				
11,600.00	11,589.82	20,603.57	12,709.07	35.53	121.33	79.845	88.68	908.68	1,757.42	1,623.97	133.44	13.170				
11,700.00	11,689.82	20,599.95	12,709.23	35.54	121.28	79.692	92.21	907.92	1,695.48	1,559.53	135.95	12.472				
11,800.00	11,789.82	20,596.36	12,709.39	35.56	121.23	79.541	95.72	907.15	1,637.30	1,498.82	138.48	11.823				
11,900.00	11,889.82	20,592.80	12,709.55	35.58	121.18	79.390	99.20	906.40	1,583.29	1,442.29	141.00	11.229				
12,000.00	11,989.82	20,589.25	12,709.71	35.60	121.14	79.240	102.66	905.66	1,533.90	1,390.43	143.47	10.692				
12,074.22	12,064.04	20,586.64	12,709.83	35.61	121.10	79.130	105.21	905.11	1,500.50	1,355.28	145.22	10.333				
12,100.00	12,089.81	20,586.19	12,709.85	35.62	121.10	-101.487	105.66	905.02	1,489.68	1,343.86	145.82	10.216				
12,150.00	12,139.60	20,587.85	12,709.77	35.69	121.12	-103.460	104.03	905.36	1,470.39	1,323.40	147.00	10.003				
12,200.00	12,188.82	20,592.84	12,709.55	35.77	121.19	-104.992	99.15	906.41	1,453.52	1,305.35	148.16	9.810				
12,250.00	12,237.08	20,601.11	12,709.18	35.86	121.30	-106.097	91.08	908.16	1,439.22	1,289.93	149.29	9.640				
12,300.00	12,284.02	20,612.56	12,708.66	35.96	121.45	-106.793	79.91	910.61	1,427.62	1,277.25	150.37	9.494				
12,350.00	12,329.30	20,628.00	12,707.95	36.06	121.65	-107.069	64.85	913.95	1,418.78	1,267.36	151.41	9.370				
12,400.00	12,372.55	20,671.89	12,705.85	36.17	122.24	-106.084	22.00	923.18	1,412.48	1,259.40	153.08	9.227				
12,450.00	12,413.46	20,729.37	12,702.93	36.28	123.01	-104.501	-34.33	934.23	1,408.27	1,253.35	154.91	9.091				
12,500.00	12,451.70	21,020.74	12,707.47	36.40	126.92	-96.054	-324.15	953.93	1,401.16	1,241.36	159.81	8.768				
12,550.00	12,487.00	21,054.60	12,709.59	36.51	127.38	-95.837	-357.94	953.16	1,394.35	1,233.65	160.70	8.677				
12,600.00	12,519.08	21,099.74	12,712.39	36.63	127.98	-95.328	-402.98	951.93	1,388.50	1,226.88	161.61	8.591				
12,650.00	12,547.69	21,139.12	12,714.60	36.75	128.51	-94.972	-442.28	950.86	1,383.57	1,221.11	162.46	8.516				
12,700.00	12,572.62	21,182.00	12,716.62	36.86	129.09	-94.570	-485.10	949.85	1,379.55	1,216.24	163.31	8.448				
12,750.00	12,593.68	21,226.41	12,718.50	36.99	129.68	-94.203	-529.45	948.87	1,376.24	1,212.09	164.15	8.384				
12,800.00	12,610.72	21,235.00	12,718.87	37.11	129.80	-94.307	-538.04	948.68	1,374.01	1,209.29	164.72	8.341				
12,827.51	12,618.32	21,235.00	12,718.87	37.18	129.80	-94.339	-538.04	948.68	1,373.69	1,208.74	164.95	8.328 CC, ES				
12,850.00	12,623.59	21,235.00	12,718.87	37.23	129.80	-94.318	-538.04	948.68	1,373.90	1,208.82	165.08	8.322 SF				
12,900.00	12,632.20	21,235.00	12,718.87	37.36	129.80	-94.114	-538.04	948.68	1,375.94	1,210.68	165.27	8.326				
12,950.00	12,636.49	21,235.00	12,718.87	37.49	129.80	-93.698	-538.04	948.68	1,380.10	1,214.84	165.26	8.351				
12,974.22	12,637.00	21,235.00	12,718.87	37.55	129.80	-93.420	-538.04	948.68	1,382.86	1,217.67	165.20	8.371				
13,000.00	12,637.00	21,235.00	12,718.87	37.62	129.80	-93.420	-538.04	948.68	1,386.29	1,221.21	165.08	8.398				
13,100.00	12,637.00	21,235.00	12,718.87	37.92	129.80	-93.420	-538.04	948.68	1,404.01	1,239.80	164.21	8.550				
13,200.00	12,637.00	21,235.00	12,718.87	38.28	129.80	-93.420	-538.04	948.68	1,428.53	1,265.79	162.74	8.778				
13,300.00	12,637.00	21,235.00	12,718.87	38.69	129.80	-93.420	-538.04	948.68	1,459.50	1,298.76	160.74	9.080				
13,400.00	12,637.00	21,235.00	12,718.87	39.15	129.80	-93.420	-538.04	948.68	1,496.52	1,338.21	158.31	9.453				
13,500.00	12,637.00	21,235.00	12,718.87	39.66	129.80	-93.420	-538.04	948.68	1,539.16	1,383.61	155.56	9.895				
13,600.00	12,637.00	21,235.00	12,718.87	40.23	129.80	-93.420	-538.04	948.68	1,586.97	1,434.40	152.56	10.402				
13,700.00	12,637.00	21,235.00	12,718.87	40.84	129.80	-93.420	-538.04	948.68	1,639.48	1,490.06	149.43	10.972				
13,800.00	12,637.00	21,235.00	12,718.87	41.49	129.80	-93.420	-538.04	948.68	1,696.27	1,550.06	146.21	11.601				
13,900.00	12,637.00	21,235.00	12,718.87	42.20	129.80	-93.420	-538.04	948.68	1,756.93	1,613.94	142.99	12.287				
14,000.00	12,637.00	21,235.00	12,718.87	42.94	129.80	-93.420	-538.04	948.68	1,821.05	1,681.25	139.81	13.026				

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 433H - OH / 68696 - Surveys (H&P 656)													Offset Site Error:	0.00 usft
Survey Program:		188-MWD+HDCM					Rule Assigned:						Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	12,637.00	21,235.00	12,718.87	43.73	129.80	-93.420	-538.04	948.68	1,888.30	1,751.61	136.69	13.814		
14,200.00	12,637.00	21,235.00	12,718.87	44.55	129.80	-93.420	-538.04	948.68	1,958.35	1,824.66	133.68	14.649		
14,300.00	12,637.00	21,235.00	12,718.87	45.41	129.80	-93.420	-538.04	948.68	2,030.90	1,900.11	130.79	15.528		
14,400.00	12,637.00	21,235.00	12,718.87	46.30	129.80	-93.420	-538.04	948.68	2,105.71	1,977.67	128.03	16.446		
14,500.00	12,637.00	21,235.00	12,718.87	47.23	129.80	-93.420	-538.04	948.68	2,182.53	2,057.12	125.41	17.403		
14,600.00	12,637.00	21,235.00	12,718.87	48.18	129.80	-93.420	-538.04	948.68	2,261.17	2,138.24	122.93	18.394		
14,700.00	12,637.00	21,235.00	12,718.87	49.16	129.80	-93.420	-538.04	948.68	2,341.44	2,220.85	120.59	19.417		
14,800.00	12,637.00	21,235.00	12,718.87	50.17	129.80	-93.420	-538.04	948.68	2,423.17	2,304.79	118.38	20.469		
14,900.00	12,637.00	21,235.00	12,718.87	51.19	129.80	-93.420	-538.04	948.68	2,506.23	2,389.92	116.31	21.548		
15,000.00	12,637.00	21,235.00	12,718.87	52.25	129.80	-93.420	-538.04	948.68	2,590.49	2,476.13	114.36	22.651		
15,100.00	12,637.00	21,235.00	12,718.87	53.32	129.80	-93.420	-538.04	948.68	2,675.84	2,563.30	112.54	23.777		
15,200.00	12,637.00	21,235.00	12,718.87	54.41	129.80	-93.420	-538.04	948.68	2,762.16	2,651.33	110.83	24.923		
15,300.00	12,637.00	21,235.00	12,718.87	55.51	129.80	-93.420	-538.04	948.68	2,849.38	2,740.16	109.23	26.087		
15,400.00	12,637.00	21,235.00	12,718.87	56.64	129.80	-93.420	-538.04	948.68	2,937.42	2,829.69	107.72	27.268		
15,500.00	12,637.00	21,235.00	12,718.87	57.78	129.80	-93.420	-538.04	948.68	3,026.20	2,919.88	106.32	28.463		
15,600.00	12,637.00	21,235.00	12,718.87	58.93	129.80	-93.420	-538.04	948.68	3,115.66	3,010.65	105.00	29.672		
15,700.00	12,637.00	21,235.00	12,718.87	60.10	129.80	-93.420	-538.04	948.68	3,205.74	3,101.96	103.77	30.892		
15,800.00	12,637.00	21,235.00	12,718.87	61.28	129.80	-93.420	-538.04	948.68	3,296.39	3,193.77	102.62	32.122		
15,900.00	12,637.00	21,235.00	12,718.87	62.47	129.80	-93.420	-538.04	948.68	3,387.57	3,286.03	101.54	33.362		
16,000.00	12,637.00	21,235.00	12,718.87	63.67	129.80	-93.420	-538.04	948.68	3,479.24	3,378.71	100.53	34.609		
16,100.00	12,637.00	21,235.00	12,718.87	64.88	129.80	-93.420	-538.04	948.68	3,571.35	3,471.77	99.58	35.863		
16,200.00	12,637.00	21,235.00	12,718.87	66.11	129.80	-93.420	-538.04	948.68	3,663.87	3,565.18	98.69	37.123		
16,300.00	12,637.00	21,235.00	12,718.87	67.34	129.80	-93.420	-538.04	948.68	3,756.78	3,658.92	97.86	38.388		
16,400.00	12,637.00	21,235.00	12,718.87	68.58	129.80	-93.420	-538.04	948.68	3,850.05	3,752.96	97.08	39.657		
16,500.00	12,637.00	21,235.00	12,718.87	69.82	129.80	-93.420	-538.04	948.68	3,943.64	3,847.29	96.35	40.930		
16,600.00	12,637.00	21,235.00	12,718.87	71.08	129.80	-93.420	-538.04	948.68	4,037.54	3,941.87	95.67	42.204		
16,700.00	12,637.00	21,235.00	12,718.87	72.34	129.80	-93.420	-538.04	948.68	4,131.73	4,036.70	95.02	43.481		
16,800.00	12,637.00	21,235.00	12,718.87	73.61	129.80	-93.420	-538.04	948.68	4,226.18	4,131.76	94.42	44.759		
16,900.00	12,637.00	21,235.00	12,718.87	74.88	129.80	-93.420	-538.04	948.68	4,320.89	4,227.03	93.86	46.038		
17,000.00	12,637.00	21,235.00	12,718.87	76.16	129.80	-93.420	-538.04	948.68	4,415.82	4,322.50	93.33	47.317		
17,100.00	12,637.00	21,235.00	12,718.87	77.45	129.80	-93.420	-538.04	948.68	4,510.98	4,418.15	92.83	48.595		
17,200.00	12,637.00	21,235.00	12,718.87	78.74	129.80	-93.420	-538.04	948.68	4,606.34	4,513.98	92.36	49.873		
17,300.00	12,637.00	21,235.00	12,718.87	80.04	129.80	-93.420	-538.04	948.68	4,701.90	4,609.97	91.92	51.150		
17,400.00	12,637.00	21,235.00	12,718.87	81.34	129.80	-93.420	-538.04	948.68	4,797.63	4,706.12	91.51	52.426		
17,500.00	12,637.00	21,235.00	12,718.87	82.65	129.80	-93.420	-538.04	948.68	4,893.54	4,802.41	91.13	53.699		
17,600.00	12,637.00	21,235.00	12,718.87	83.96	129.80	-93.420	-538.04	948.68	4,989.60	4,898.84	90.77	54.971		
17,700.00	12,637.00	21,235.00	12,718.87	85.27	129.80	-93.420	-538.04	948.68	5,085.82	4,995.39	90.43	56.240		
17,800.00	12,637.00	21,235.00	12,718.87	86.59	129.80	-93.420	-538.04	948.68	5,182.19	5,092.07	90.11	57.507		
17,900.00	12,637.00	21,235.00	12,718.87	87.91	129.80	-93.420	-538.04	948.68	5,278.68	5,188.86	89.82	58.771		
18,000.00	12,637.00	21,235.00	12,718.87	89.24	129.80	-93.420	-538.04	948.68	5,375.31	5,285.77	89.54	60.032		
18,100.00	12,637.00	21,235.00	12,718.87	90.57	129.80	-93.420	-538.04	948.68	5,472.05	5,382.77	89.28	61.289		
18,200.00	12,637.00	21,235.00	12,718.87	91.90	129.80	-93.420	-538.04	948.68	5,568.91	5,479.87	89.04	62.543		
18,300.00	12,637.00	21,235.00	12,718.87	93.24	129.80	-93.420	-538.04	948.68	5,665.89	5,577.07	88.82	63.793		
18,400.00	12,637.00	21,235.00	12,718.87	94.58	129.80	-93.420	-538.04	948.68	5,762.96	5,674.35	88.61	65.040		
18,500.00	12,637.00	21,235.00	12,718.87	95.92	129.80	-93.420	-538.04	948.68	5,860.13	5,771.72	88.41	66.283		
18,600.00	12,637.00	21,235.00	12,718.87	97.26	129.80	-93.420	-538.04	948.68	5,957.40	5,869.17	88.23	67.521		
18,700.00	12,637.00	21,235.00	12,718.87	98.61	129.80	-93.420	-538.04	948.68	6,054.75	5,966.69	88.06	68.756		
18,800.00	12,637.00	21,235.00	12,718.87	99.96	129.80	-93.420	-538.04	948.68	6,152.19	6,064.29	87.91	69.986		
18,900.00	12,637.00	21,235.00	12,718.87	101.31	129.80	-93.420	-538.04	948.68	6,249.71	6,161.95	87.76	71.212		
19,000.00	12,637.00	21,235.00	12,718.87	102.67	129.80	-93.420	-538.04	948.68	6,347.31	6,259.68	87.63	72.433		
19,100.00	12,637.00	21,235.00	12,718.87	104.02	129.80	-93.420	-538.04	948.68	6,444.98	6,357.47	87.51	73.650		
19,200.00	12,637.00	21,235.00	12,718.87	105.38	129.80	-93.420	-538.04	948.68	6,542.72	6,455.33	87.40	74.862		

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 433H - OH / 68696 - Surveys (H&P 656)													Offset Site Error: 0.00 usft	
Survey Program:		188-MWD+HDGM					Rule Assigned:		Offset Well Error: 1.00 usft					
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,300.00	12,637.00	21,235.00	12,718.87	106.74	129.80	-93.420	-538.04	948.68	6,640.53	6,553.24	87.30	76.069		
19,400.00	12,637.00	21,235.00	12,718.87	108.11	129.80	-93.420	-538.04	948.68	6,738.41	6,651.20	87.20	77.272		
19,500.00	12,637.00	21,235.00	12,718.87	109.47	129.80	-93.420	-538.04	948.68	6,836.34	6,749.22	87.12	78.470		
19,600.00	12,637.00	21,235.00	12,718.87	110.84	129.80	-93.420	-538.04	948.68	6,934.34	6,847.29	87.05	79.663		
19,700.00	12,637.00	21,235.00	12,718.87	112.20	129.80	-93.420	-538.04	948.68	7,032.39	6,945.41	86.98	80.851		
19,800.00	12,637.00	21,235.00	12,718.87	113.57	129.80	-93.420	-538.04	948.68	7,130.49	7,043.57	86.92	82.034		
19,900.00	12,637.00	21,235.00	12,718.87	114.95	129.80	-93.420	-538.04	948.68	7,228.65	7,141.78	86.87	83.212		
20,000.00	12,637.00	21,235.00	12,718.87	116.32	129.80	-93.420	-538.04	948.68	7,326.85	7,240.03	86.83	84.385		
20,100.00	12,637.00	21,235.00	12,718.87	117.69	129.80	-93.420	-538.04	948.68	7,425.11	7,338.32	86.79	85.552		
20,200.00	12,637.00	21,235.00	12,718.87	119.07	129.80	-93.420	-538.04	948.68	7,523.41	7,436.65	86.76	86.715		
20,300.00	12,637.00	21,235.00	12,718.87	120.45	129.80	-93.420	-538.04	948.68	7,621.75	7,535.02	86.74	87.873		
20,400.00	12,637.00	21,235.00	12,718.87	121.83	129.80	-93.420	-538.04	948.68	7,720.14	7,633.42	86.72	89.025		
20,500.00	12,637.00	21,235.00	12,718.87	123.21	129.80	-93.420	-538.04	948.68	7,818.57	7,731.86	86.71	90.173		
20,600.00	12,637.00	21,235.00	12,718.87	124.59	129.80	-93.420	-538.04	948.68	7,917.03	7,830.33	86.70	91.315		
20,700.00	12,637.00	21,235.00	12,718.87	125.97	129.80	-93.420	-538.04	948.68	8,015.54	7,928.84	86.70	92.452		
20,800.00	12,637.00	21,235.00	12,718.87	127.35	129.80	-93.420	-538.04	948.68	8,114.08	8,027.38	86.70	93.584		
20,900.00	12,637.00	21,235.00	12,718.87	128.74	129.80	-93.420	-538.04	948.68	8,212.66	8,125.94	86.71	94.710		
21,000.00	12,637.00	21,235.00	12,718.87	130.12	129.80	-93.420	-538.04	948.68	8,311.27	8,224.54	86.73	95.831		
21,100.00	12,637.00	21,235.00	12,718.87	131.51	129.80	-93.420	-538.04	948.68	8,409.91	8,323.17	86.75	96.947		
21,200.00	12,637.00	21,235.00	12,718.87	132.90	129.80	-93.420	-538.04	948.68	8,508.59	8,421.82	86.77	98.058		
21,300.00	12,637.00	21,235.00	12,718.87	134.29	129.80	-93.420	-538.04	948.68	8,607.30	8,520.50	86.80	99.164		
21,400.00	12,637.00	21,235.00	12,718.87	135.68	129.80	-93.420	-538.04	948.68	8,706.03	8,619.20	86.83	100.264		
21,500.00	12,637.00	21,235.00	12,718.87	137.07	129.80	-93.420	-538.04	948.68	8,804.79	8,717.93	86.87	101.359		
21,600.00	12,637.00	21,235.00	12,718.87	138.46	129.80	-93.420	-538.04	948.68	8,903.59	8,816.68	86.91	102.449		
21,700.00	12,637.00	21,235.00	12,718.87	139.85	129.80	-93.420	-538.04	948.68	9,002.41	8,915.45	86.95	103.533		
21,800.00	12,637.00	21,235.00	12,718.87	141.25	129.80	-93.420	-538.04	948.68	9,101.25	9,014.25	87.00	104.613		
21,900.00	12,637.00	21,235.00	12,718.87	142.64	129.80	-93.420	-538.04	948.68	9,200.12	9,113.07	87.05	105.687		
22,000.00	12,637.00	21,235.00	12,718.87	144.04	129.80	-93.420	-538.04	948.68	9,299.01	9,211.91	87.11	106.756		
22,100.00	12,637.00	21,235.00	12,718.87	145.43	129.80	-93.420	-538.04	948.68	9,397.93	9,310.77	87.16	107.819		
22,200.00	12,637.00	21,235.00	12,718.87	146.83	129.80	-93.420	-538.04	948.68	9,496.87	9,409.64	87.22	108.878		
22,300.00	12,637.00	21,235.00	12,718.87	148.23	129.80	-93.420	-538.04	948.68	9,595.83	9,508.54	87.29	109.931		
22,400.00	12,637.00	21,235.00	12,718.87	149.63	129.80	-93.420	-538.04	948.68	9,694.81	9,607.46	87.36	110.979		
22,500.00	12,637.00	21,235.00	12,718.87	151.02	129.80	-93.420	-538.04	948.68	9,793.82	9,706.39	87.43	112.022		
22,600.00	12,637.00	21,235.00	12,718.87	152.42	129.80	-93.420	-538.04	948.68	9,892.84	9,805.34	87.50	113.060		
22,700.00	12,637.00	21,235.00	12,718.87	153.83	129.80	-93.420	-538.04	948.68	9,991.88	9,904.31	87.58	114.093		
22,800.00	12,637.00	21,235.00	12,718.87	155.23	129.80	-93.420	-538.04	948.68	10,090.94	10,003.29	87.66	115.120		
22,900.00	12,637.00	21,235.00	12,718.87	156.63	129.80	-93.420	-538.04	948.68	10,190.02	10,102.29	87.74	116.143		
23,000.00	12,637.00	21,235.00	12,718.87	158.03	129.80	-93.420	-538.04	948.68	10,289.12	10,201.30	87.82	117.160		
23,100.00	12,637.00	21,235.00	12,718.87	159.43	129.80	-93.420	-538.04	948.68	10,388.24	10,300.33	87.91	118.172		
23,124.22	12,637.00	21,235.00	12,718.87	159.77	129.80	-93.420	-538.04	948.68	10,412.25	10,324.32	87.93	118.417		

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 512H - OH / 68637 - Surveys (H&P 625)													Offset Site Error: 0.00 usft
Survey Program: 124-MWD+HDCM													Offset Well Error: 1.00 usft
Reference													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				Reference	Offset		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	67.64	12.64	1.00	1.00	-0.958	7,900.20	-132.08	7,901.31				
100.00	100.00	255.55	200.55	1.08	1.19	-0.964	7,898.93	-132.90	7,900.68	7,898.41	2.27	3,473.747	
200.00	200.00	382.58	327.56	1.60	1.49	-0.965	7,897.06	-132.95	7,899.21	7,896.13	3.08	2,561.352	
300.00	300.00	497.76	442.72	2.01	1.81	-0.965	7,895.06	-133.04	7,897.47	7,893.65	3.82	2,067.253	
400.00	400.00	587.58	532.53	2.35	2.09	-0.966	7,893.50	-133.11	7,895.73	7,891.29	4.44	1,778.752	
500.00	500.00	683.92	628.85	2.65	2.40	-0.966	7,891.94	-133.13	7,894.11	7,889.06	5.05	1,563.540	
600.00	600.00	814.35	759.26	2.93	2.83	-0.966	7,889.56	-133.04	7,892.29	7,886.53	5.75	1,371.911	
700.00	700.00	911.34	856.24	3.18	3.16	-0.965	7,887.57	-132.84	7,890.24	7,883.91	6.33	1,246.267	
800.00	800.00	998.07	942.95	3.41	3.46	-0.962	7,885.93	-132.44	7,888.34	7,881.48	6.86	1,149.638	
900.00	900.00	1,093.94	1,038.80	3.64	3.79	-0.958	7,884.25	-131.89	7,886.57	7,879.16	7.41	1,063.939	
1,000.00	1,000.00	1,212.01	1,156.85	3.85	4.20	-0.956	7,882.11	-131.46	7,884.77	7,876.74	8.03	981.654	
1,100.00	1,100.00	1,271.00	1,215.83	4.05	4.40	-0.954	7,880.87	-131.23	7,882.82	7,874.38	8.44	934.068	
1,200.00	1,200.00	1,271.00	1,215.83	4.24	4.40	-0.954	7,880.87	-131.23	7,881.98	7,873.35	8.63	913.040	
1,284.13	1,284.13	1,338.13	1,282.95	4.40	4.63	-0.950	7,880.13	-130.70	7,881.22	7,872.20	9.01	874.383	
1,300.00	1,300.00	1,342.49	1,287.31	4.43	4.64	-0.950	7,880.14	-130.64	7,881.23	7,872.17	9.06	870.128	
1,400.00	1,400.00	1,369.92	1,314.74	4.61	4.73	-0.947	7,880.32	-130.26	7,881.85	7,872.52	9.33	844.894	
1,500.00	1,500.00	1,456.00	1,400.76	4.78	5.02	-0.934	7,882.52	-128.50	7,884.19	7,874.40	9.79	805.198	
1,600.00	1,599.98	1,456.00	1,400.76	5.03	5.02	108.484	7,882.52	-128.50	7,886.64	7,876.72	9.92	795.134	
1,629.90	1,629.86	1,456.00	1,400.76	5.06	5.02	108.461	7,882.52	-128.50	7,887.83	7,877.90	9.93	794.308	
1,700.00	1,699.88	1,456.00	1,400.76	5.14	5.02	108.461	7,882.52	-128.50	7,891.19	7,881.20	9.99	790.108	
1,800.00	1,799.78	1,530.35	1,475.03	5.31	5.26	108.498	7,885.55	-126.67	7,896.64	7,886.28	10.37	761.828	
1,900.00	1,899.68	1,617.20	1,561.78	5.50	5.55	108.541	7,889.22	-124.64	7,902.28	7,891.49	10.79	732.042	
2,000.00	1,999.58	1,727.90	1,672.36	5.70	5.91	108.593	7,893.96	-122.26	7,907.98	7,896.67	11.31	699.284	
2,100.00	2,099.47	1,849.32	1,793.65	5.91	6.32	108.648	7,898.85	-119.93	7,913.43	7,901.57	11.86	667.193	
2,200.00	2,199.37	1,897.51	1,841.79	6.14	6.48	108.669	7,900.93	-119.17	7,919.14	7,906.97	12.17	650.826	
2,300.00	2,299.27	1,954.36	1,898.57	6.37	6.67	108.692	7,903.66	-118.45	7,925.38	7,912.88	12.50	633.847	
2,400.00	2,399.16	2,021.00	1,965.11	6.61	6.90	108.717	7,907.25	-117.85	7,932.17	7,919.30	12.87	616.197	
2,500.00	2,499.06	2,087.87	2,031.87	6.86	7.13	108.742	7,911.13	-117.31	7,939.38	7,926.14	13.25	599.423	
2,600.00	2,598.96	2,168.65	2,112.49	7.12	7.40	108.774	7,915.98	-116.48	7,946.85	7,933.18	13.66	581.549	
2,700.00	2,698.86	2,267.05	2,210.69	7.38	7.74	108.814	7,922.08	-115.21	7,954.50	7,940.35	14.15	562.202	
2,800.00	2,798.75	2,383.99	2,327.41	7.65	8.15	108.864	7,929.14	-113.38	7,961.99	7,947.29	14.70	541.634	
2,900.00	2,898.65	2,485.31	2,428.53	7.92	8.50	108.909	7,935.13	-111.55	7,969.36	7,954.16	15.20	524.352	
3,000.00	2,998.55	2,584.48	2,527.51	8.20	8.85	108.954	7,941.00	-109.56	7,976.74	7,961.05	15.69	508.390	
3,100.00	3,098.44	2,683.31	2,626.15	8.48	9.20	108.998	7,946.85	-107.65	7,984.13	7,967.94	16.18	493.382	
3,200.00	3,198.34	2,787.22	2,729.86	8.77	9.56	109.043	7,953.00	-106.00	7,991.53	7,974.83	16.69	478.725	
3,300.00	3,298.24	2,955.89	2,898.27	9.05	10.16	109.113	7,962.17	-103.52	7,998.44	7,981.01	17.44	458.688	
3,400.00	3,398.14	3,047.02	2,989.28	9.35	10.48	109.149	7,966.76	-102.32	8,004.96	7,987.06	17.91	447.079	
3,500.00	3,498.03	3,134.26	3,076.39	9.64	10.79	109.182	7,971.29	-101.50	8,011.64	7,993.28	18.36	436.397	
3,600.00	3,597.93	3,274.31	3,216.26	9.94	11.29	109.233	7,978.37	-100.38	8,018.21	7,999.21	19.00	421.947	
3,700.00	3,697.83	3,402.81	3,344.61	10.23	11.74	109.284	7,984.19	-98.83	8,024.22	8,004.62	19.61	409.255	
3,800.00	3,797.72	3,511.95	3,453.63	10.53	12.13	109.334	7,988.93	-96.45	8,030.07	8,009.93	20.14	398.661	
3,900.00	3,897.62	3,580.55	3,522.14	10.84	12.37	109.367	7,991.96	-94.78	8,036.01	8,015.48	20.53	391.389	
4,000.00	3,997.52	3,641.17	3,582.68	11.14	12.59	109.390	7,994.94	-94.11	8,042.44	8,021.54	20.89	384.949	
4,100.00	4,097.42	3,718.00	3,659.40	11.45	12.86	109.412	7,999.14	-94.40	8,049.37	8,028.06	21.31	377.717	
4,200.00	4,197.31	3,779.30	3,720.59	11.75	13.08	109.426	8,002.73	-94.99	8,056.66	8,034.99	21.67	371.746	
4,300.00	4,297.21	3,862.82	3,803.96	12.06	13.38	109.449	8,007.75	-95.32	8,064.19	8,042.08	22.11	364.648	
4,400.00	4,397.11	3,956.50	3,897.45	12.37	13.72	109.479	8,013.55	-95.16	8,071.89	8,049.30	22.60	357.236	
4,500.00	4,497.01	4,061.66	4,002.41	12.68	14.09	109.513	8,020.02	-94.88	8,079.56	8,056.45	23.12	349.483	
4,600.00	4,596.90	4,198.79	4,139.30	13.00	14.59	109.558	8,028.16	-94.40	8,087.04	8,063.28	23.76	340.373	
4,700.00	4,696.80	4,433.92	4,374.14	13.31	15.43	109.641	8,039.77	-92.60	8,093.67	8,068.91	24.76	326.931	
4,800.00	4,796.70	4,608.47	4,548.56	13.62	16.05	109.712	8,045.80	-90.10	8,098.61	8,073.07	25.53	317.187	
4,900.00	4,896.59	4,730.20	4,670.21	13.94	16.49	109.766	8,049.28	-87.59	8,103.00	8,076.88	26.12	310.242	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 512H - OH / 68637 - Surveys (H&P 625)												Offset Site Error:	0.00 usft
Survey Program:		124-MWD+HdGM						Rule Assigned:				Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance				Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,996.49	20,862.00	13,017.46	14.25	122.52	168.561	60.45	-99.50	8,021.89	7,945.95	75.95	105.622	
5,100.00	5,096.39	20,862.00	13,017.46	14.57	122.52	168.561	60.45	-99.50	7,922.06	7,845.94	76.12	104.075	
5,200.00	5,196.29	20,862.00	13,017.46	14.89	122.52	168.561	60.45	-99.50	7,822.22	7,745.93	76.29	102.532	
5,300.00	5,296.18	20,862.00	13,017.46	15.20	122.52	168.561	60.45	-99.50	7,722.40	7,645.93	76.47	100.992	
5,400.00	5,396.08	20,862.00	13,017.46	15.52	122.52	168.561	60.45	-99.50	7,622.57	7,545.93	76.64	99.455	
5,500.00	5,495.98	20,862.00	13,017.46	15.84	122.52	168.561	60.45	-99.50	7,522.75	7,445.93	76.82	97.922	
5,600.00	5,595.87	20,862.00	13,017.46	16.16	122.52	168.561	60.45	-99.50	7,422.94	7,345.93	77.01	96.393	
5,700.00	5,695.77	20,892.66	13,017.74	16.48	122.93	171.927	29.80	-100.57	7,322.95	7,245.51	77.44	94.565	
5,800.00	5,795.67	20,893.74	13,017.76	16.80	122.94	172.049	28.73	-100.60	7,223.13	7,145.50	77.64	93.039	
5,900.00	5,895.57	20,894.83	13,017.77	17.12	122.96	172.173	27.64	-100.64	7,123.32	7,045.48	77.84	91.516	
6,000.00	5,995.46	20,895.94	13,017.79	17.44	122.97	172.301	26.53	-100.67	7,023.51	6,945.47	78.04	89.999	
6,100.00	6,095.36	20,897.07	13,017.80	17.76	122.99	172.430	25.40	-100.71	6,923.71	6,845.46	78.25	88.486	
6,200.00	6,195.26	20,898.21	13,017.82	18.09	123.00	172.562	24.26	-100.75	6,823.91	6,745.45	78.46	86.977	
6,300.00	6,295.16	20,899.38	13,017.84	18.41	123.02	172.697	23.09	-100.78	6,724.11	6,645.44	78.67	85.473	
6,400.00	6,395.05	20,900.57	13,017.85	18.73	123.03	172.835	21.90	-100.82	6,624.33	6,545.44	78.89	83.974	
6,500.00	6,494.95	20,901.78	13,017.87	19.06	123.05	172.976	20.69	-100.86	6,524.55	6,445.44	79.10	82.481	
6,600.00	6,594.85	20,903.02	13,017.89	19.38	123.07	173.119	19.45	-100.90	6,424.77	6,345.44	79.33	80.992	
6,700.00	6,694.74	20,904.27	13,017.91	19.70	123.08	173.266	18.20	-100.93	6,325.00	6,245.45	79.55	79.508	
6,800.00	6,794.64	20,905.55	13,017.93	20.03	123.10	173.415	16.92	-100.97	6,225.24	6,145.46	79.78	78.030	
6,900.00	6,894.54	20,906.86	13,017.95	20.35	123.12	173.568	15.62	-101.01	6,125.49	6,045.47	80.01	76.557	
7,000.00	6,994.44	20,908.18	13,017.97	20.68	123.14	173.725	14.29	-101.05	6,025.74	5,945.49	80.25	75.090	
7,100.00	7,094.33	20,909.54	13,018.00	21.00	123.15	173.884	12.94	-101.09	5,926.00	5,845.51	80.49	73.629	
7,200.00	7,194.23	20,910.92	13,018.02	21.33	123.17	174.048	11.56	-101.13	5,826.27	5,745.54	80.73	72.173	
7,300.00	7,294.13	20,912.32	13,018.04	21.65	123.19	174.215	10.15	-101.18	5,726.54	5,645.57	80.97	70.723	
7,400.00	7,394.02	20,913.76	13,018.07	21.98	123.21	174.386	8.72	-101.22	5,626.83	5,545.61	81.22	69.278	
7,500.00	7,493.92	20,915.22	13,018.10	22.30	123.23	174.560	7.26	-101.26	5,527.13	5,445.65	81.47	67.840	
7,600.00	7,593.82	20,916.71	13,018.12	22.63	123.25	174.739	5.77	-101.30	5,427.43	5,345.70	81.73	66.408	
7,700.00	7,693.72	20,918.23	13,018.15	22.95	123.27	174.922	4.25	-101.35	5,327.75	5,245.76	81.99	64.982	
7,800.00	7,793.61	20,919.79	13,018.18	23.28	123.29	175.110	2.69	-101.39	5,228.07	5,145.82	82.25	63.563	
7,900.00	7,893.51	20,921.37	13,018.21	23.61	123.31	175.302	1.11	-101.44	5,128.41	5,045.90	82.52	62.149	
8,000.00	7,993.41	20,922.99	13,018.25	23.93	123.33	175.498	-0.51	-101.48	5,028.76	4,945.98	82.79	60.743	
8,100.00	8,093.31	20,924.64	13,018.28	24.26	123.35	175.700	-2.16	-101.53	4,929.13	4,846.07	83.06	59.342	
8,200.00	8,193.20	20,926.33	13,018.31	24.59	123.38	175.906	-3.85	-101.57	4,829.51	4,746.16	83.34	57.949	
8,300.00	8,293.10	20,928.06	13,018.35	24.92	123.40	176.118	-5.57	-101.62	4,729.90	4,646.27	83.62	56.562	
8,400.00	8,393.00	20,929.82	13,018.39	25.24	123.42	176.335	-7.33	-101.67	4,630.31	4,546.40	83.91	55.181	
8,500.00	8,492.89	20,931.60	13,019.04	25.57	123.77	179.650	-33.50	-102.32	4,530.87	4,446.46	84.41	53.678	
8,600.00	8,592.79	20,933.41	13,019.04	25.90	123.77	179.650	-33.50	-102.32	4,431.29	4,346.60	84.69	52.324	
8,700.00	8,692.69	20,935.25	13,019.04	26.23	123.77	179.650	-33.50	-102.32	4,331.73	4,246.76	84.97	50.977	
8,800.00	8,792.59	20,937.10	13,019.04	26.55	123.77	179.650	-33.50	-102.32	4,232.20	4,146.93	85.26	49.637	
8,900.00	8,892.48	20,938.97	13,019.04	26.88	123.77	179.650	-33.50	-102.32	4,132.68	4,047.13	85.56	48.303	
9,000.00	8,992.38	20,940.86	13,019.04	27.21	123.77	179.650	-33.50	-102.32	4,033.19	3,947.34	85.86	46.977	
9,100.00	9,092.28	20,942.77	13,019.04	27.54	123.77	179.650	-33.50	-102.32	3,933.73	3,847.57	86.16	45.657	
9,200.00	9,192.17	20,944.70	13,019.04	27.87	123.77	179.650	-33.50	-102.32	3,834.29	3,747.82	86.47	44.344	
9,300.00	9,292.07	20,946.64	13,019.04	28.19	123.77	179.650	-33.50	-102.32	3,734.89	3,648.10	86.78	43.038	
9,400.00	9,391.97	20,948.59	13,019.04	28.52	123.77	179.650	-33.50	-102.32	3,635.51	3,548.41	87.10	41.739	
9,500.00	9,491.87	20,950.56	13,019.04	28.85	123.77	179.650	-33.50	-102.32	3,536.17	3,448.75	87.43	40.447	
9,600.00	9,591.76	20,952.54	13,019.04	29.18	123.77	179.650	-33.50	-102.32	3,436.87	3,349.11	87.76	39.163	
9,700.00	9,691.66	20,954.53	13,019.04	29.51	123.77	179.650	-33.50	-102.32	3,337.61	3,249.52	88.10	37.885	
9,800.00	9,791.56	20,956.50	13,019.04	29.84	123.77	179.650	-33.50	-102.32	3,238.40	3,149.96	88.44	36.615	
9,900.00	9,891.45	20,958.50	13,019.04	30.17	123.77	179.650	-33.50	-102.32	3,139.24	3,050.44	88.80	35.352	
10,000.00	9,991.35	20,956.00	13,019.04	30.50	123.77	179.650	-33.50	-102.32	3,040.13	2,950.97	89.16	34.097	
10,100.00	10,091.25	20,970.59	13,019.46	30.83	123.96	-178.433	-48.07	-102.65	2,941.04	2,851.37	89.67	32.798	



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 512H - OH / 68637 - Surveys (H&P 625)													Offset Site Error: 0.00 usft
Survey Program: 124-MWD+HDGM													Offset Well Error: 1.00 usft
Reference													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,200.00	10,191.15	20,974.10	13,019.57	31.15	124.01	-177.965	-51.58	-102.73	2,842.03	2,751.94	90.09	31.547	
10,300.00	10,291.04	20,977.66	13,019.68	31.48	124.06	-177.487	-55.14	-102.81	2,743.08	2,652.57	90.52	30.304	
10,400.00	10,390.94	20,981.29	13,019.79	31.81	124.11	-176.998	-58.76	-102.89	2,644.22	2,553.25	90.96	29.069	
10,500.00	10,490.84	20,984.97	13,019.90	32.14	124.15	-176.499	-62.44	-102.97	2,545.43	2,454.00	91.42	27.842	
10,600.00	10,590.74	20,988.71	13,020.02	32.47	124.20	-175.989	-66.18	-103.05	2,446.73	2,354.83	91.91	26.622	
10,700.00	10,690.63	20,992.51	13,020.14	32.80	124.25	-175.468	-69.98	-103.13	2,348.14	2,255.73	92.41	25.411	
10,800.00	10,790.53	20,996.37	13,020.26	33.13	124.31	-174.936	-73.84	-103.21	2,249.66	2,156.73	92.93	24.207	
10,900.00	10,890.43	21,000.29	13,020.39	33.46	124.36	-174.392	-77.76	-103.30	2,151.31	2,057.83	93.49	23.012	
11,000.00	10,990.32	21,004.29	13,020.52	33.79	124.41	-173.836	-81.75	-103.38	2,053.12	1,959.04	94.08	21.824	
11,100.00	11,090.22	21,008.34	13,020.65	34.12	124.47	-173.268	-85.80	-103.47	1,955.10	1,860.39	94.70	20.645	
11,200.00	11,190.12	21,012.47	13,020.79	34.45	124.52	-172.688	-89.93	-103.56	1,857.27	1,761.90	95.38	19.473	
11,300.00	11,290.02	21,016.67	13,020.94	34.78	124.58	-172.094	-94.12	-103.65	1,759.69	1,663.58	96.11	18.309	
11,400.00	11,389.91	21,020.94	13,021.08	35.11	124.63	-171.488	-98.39	-103.74	1,662.37	1,565.46	96.91	17.154	
11,444.32	11,434.18	21,022.85	13,021.15	35.25	124.66	-171.215	-100.30	-103.78	1,619.34	1,522.05	97.29	16.644	
11,500.00	11,489.83	21,025.12	13,021.23	35.42	124.69	-170.139	-102.56	-103.82	1,565.25	1,467.46	97.78	16.007	
11,574.22	11,564.04	21,027.66	13,021.32	35.53	124.72	82.006	-105.11	-103.88	1,492.92	1,394.48	98.44	15.166	
11,600.00	11,589.82	21,028.45	13,021.35	35.53	124.73	82.143	-105.90	-103.89	1,467.77	1,369.10	98.67	14.876	
11,700.00	11,689.82	21,031.55	13,021.46	35.54	124.77	82.685	-108.99	-103.96	1,370.41	1,270.79	99.62	13.756	
11,800.00	11,789.82	21,034.71	13,021.57	35.56	124.82	83.237	-112.14	-104.02	1,273.46	1,172.75	100.71	12.645	
11,900.00	11,889.82	21,037.92	13,021.69	35.58	124.86	83.802	-115.35	-104.08	1,177.00	1,075.04	101.96	11.544	
12,000.00	11,989.82	21,041.19	13,021.81	35.60	124.90	84.378	-118.62	-104.15	1,081.18	977.75	103.43	10.453	
12,074.22	12,064.04	21,043.66	13,021.90	35.61	124.94	84.814	-121.09	-104.20	1,010.57	905.87	104.71	9.652	
12,100.00	12,089.81	21,045.05	13,021.95	35.62	124.95	-101.790	-122.47	-104.23	986.19	881.00	105.20	9.375	
12,150.00	12,139.60	21,051.00	13,022.18	35.69	125.03	-113.538	-128.42	-104.35	939.39	833.13	106.25	8.841	
12,200.00	12,188.82	21,064.91	13,022.68	35.77	125.22	-121.917	-142.32	-104.63	893.50	786.02	107.48	8.313	
12,250.00	12,237.08	21,084.27	13,023.28	35.86	125.48	-127.899	-161.67	-105.05	848.85	739.99	108.86	7.798	
12,300.00	12,284.02	21,108.31	13,023.88	35.96	125.80	-132.162	-185.70	-105.60	805.73	695.34	110.39	7.299	
12,350.00	12,329.30	21,136.66	13,024.38	36.06	126.17	-135.185	-214.03	-106.31	764.40	652.34	112.06	6.821	
12,400.00	12,372.55	21,165.27	13,024.70	36.17	126.55	-137.551	-242.63	-107.07	725.13	611.29	113.85	6.369	
12,450.00	12,413.46	21,196.18	13,024.96	36.28	126.97	-139.276	-273.52	-107.91	688.30	572.54	115.76	5.946	
12,500.00	12,451.70	21,230.51	13,025.15	36.40	127.42	-140.445	-307.84	-108.87	654.12	536.33	117.79	5.553	
12,550.00	12,487.00	21,268.54	13,025.22	36.51	127.93	-141.171	-345.85	-109.95	622.78	502.88	119.90	5.194	
12,600.00	12,519.08	21,309.54	13,025.08	36.63	128.47	-141.581	-386.84	-111.12	594.40	472.34	122.06	4.870	
12,650.00	12,547.69	21,350.11	13,024.77	36.75	129.01	-141.872	-427.39	-112.25	569.13	444.89	124.24	4.581	
12,700.00	12,572.62	21,389.52	13,024.62	36.86	129.54	-142.094	-466.79	-113.22	547.41	421.03	126.38	4.331	
12,750.00	12,593.68	21,432.04	13,024.70	36.99	130.11	-142.152	-509.29	-114.11	529.40	400.99	128.41	4.123	
12,800.00	12,610.72	21,477.00	13,024.85	37.11	130.71	-142.129	-554.25	-115.01	514.92	384.66	130.26	3.953	
12,850.00	12,623.59	21,477.00	13,024.85	37.23	130.71	-142.659	-554.25	-115.01	506.39	374.85	131.53	3.850	
12,876.29	12,628.65	21,477.00	13,024.85	37.30	130.71	-142.730	-554.25	-115.01	505.22	373.49	131.73	3.835 CC, ES, SF	
12,900.00	12,632.20	21,477.00	13,024.85	37.36	130.71	-142.673	-554.25	-115.01	506.17	374.55	131.62	3.846	
12,950.00	12,636.49	21,477.00	13,024.85	37.49	130.71	-142.169	-554.25	-115.01	514.28	383.79	130.49	3.941	
12,974.22	12,637.00	21,477.00	13,024.85	37.55	130.71	-141.732	-554.25	-115.01	521.09	391.56	129.53	4.023	
13,000.00	12,637.00	21,477.00	13,024.85	37.62	130.71	-141.732	-554.25	-115.01	529.86	401.56	128.29	4.130	
13,100.00	12,637.00	21,477.00	13,024.85	37.92	130.71	-141.732	-554.25	-115.01	573.65	451.18	122.47	4.684	
13,200.00	12,637.00	21,477.00	13,024.85	38.28	130.71	-141.732	-554.25	-115.01	630.39	514.36	116.03	5.433	
13,300.00	12,637.00	21,477.00	13,024.85	38.69	130.71	-141.732	-554.25	-115.01	696.94	587.05	109.89	6.342	
13,400.00	12,637.00	21,477.00	13,024.85	39.15	130.71	-141.732	-554.25	-115.01	770.74	666.28	104.46	7.379	
13,500.00	12,637.00	21,477.00	13,024.85	39.66	130.71	-141.732	-554.25	-115.01	849.92	750.07	99.85	8.512	
13,600.00	12,637.00	21,477.00	13,024.85	40.23	130.71	-141.732	-554.25	-115.01	933.11	837.09	96.02	9.718	
13,700.00	12,637.00	21,477.00	13,024.85	40.84	130.71	-141.732	-554.25	-115.01	1,019.32	926.46	92.86	10.977	
13,800.00	12,637.00	21,477.00	13,024.85	41.49	130.71	-141.732	-554.25	-115.01	1,107.85	1,017.60	90.26	12.275	
13,900.00	12,637.00	21,477.00	13,024.85	42.20	130.71	-141.732	-554.25	-115.01	1,198.19	1,110.09	88.11	13.599	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 512H - OH / 68637 - Surveys (H&P 625)													Offset Site Error:	0.00 usft
Survey Program:		124-MWD+HDGM					Rule Assigned:				Offset Well Error:		1.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,000.00	12,637.00	21,477.00	13,024.85	42.94	130.71	-141.732	-554.25	-115.01	1,289.96	1,203.63	86.33	14.943		
14,100.00	12,637.00	21,477.00	13,024.85	43.73	130.71	-141.732	-554.25	-115.01	1,382.86	1,298.02	84.84	16.299		
14,200.00	12,637.00	21,477.00	13,024.85	44.55	130.71	-141.732	-554.25	-115.01	1,476.70	1,393.10	83.60	17.664		
14,300.00	12,637.00	21,477.00	13,024.85	45.41	130.71	-141.732	-554.25	-115.01	1,571.29	1,488.74	82.55	19.033		
14,400.00	12,637.00	21,477.00	13,024.85	46.30	130.71	-141.732	-554.25	-115.01	1,666.52	1,584.85	81.67	20.406		
14,500.00	12,637.00	21,477.00	13,024.85	47.23	130.71	-141.732	-554.25	-115.01	1,762.27	1,681.36	80.92	21.779		
14,600.00	12,637.00	21,477.00	13,024.85	48.18	130.71	-141.732	-554.25	-115.01	1,858.48	1,778.20	80.27	23.152		
14,700.00	12,637.00	21,477.00	13,024.85	49.16	130.71	-141.732	-554.25	-115.01	1,955.06	1,875.34	79.72	24.523		
14,800.00	12,637.00	21,477.00	13,024.85	50.17	130.71	-141.732	-554.25	-115.01	2,051.97	1,972.72	79.25	25.893		
14,900.00	12,637.00	21,477.00	13,024.85	51.19	130.71	-141.732	-554.25	-115.01	2,149.16	2,070.32	78.84	27.260		
15,000.00	12,637.00	21,477.00	13,024.85	52.25	130.71	-141.732	-554.25	-115.01	2,246.60	2,168.12	78.49	28.624		
15,100.00	12,637.00	21,477.00	13,024.85	53.32	130.71	-141.732	-554.25	-115.01	2,344.26	2,266.08	78.18	29.984		
15,200.00	12,637.00	21,477.00	13,024.85	54.41	130.71	-141.732	-554.25	-115.01	2,442.10	2,364.19	77.92	31.342		
15,300.00	12,637.00	21,477.00	13,024.85	55.51	130.71	-141.732	-554.25	-115.01	2,540.12	2,462.43	77.69	32.695		
15,400.00	12,637.00	21,477.00	13,024.85	56.64	130.71	-141.732	-554.25	-115.01	2,638.28	2,560.79	77.49	34.045		
15,500.00	12,637.00	21,477.00	13,024.85	57.78	130.71	-141.732	-554.25	-115.01	2,736.58	2,659.25	77.32	35.391		
15,600.00	12,637.00	21,477.00	13,024.85	58.93	130.71	-141.732	-554.25	-115.01	2,834.99	2,757.81	77.18	36.733		
15,700.00	12,637.00	21,477.00	13,024.85	60.10	130.71	-141.732	-554.25	-115.01	2,933.51	2,856.46	77.05	38.071		
15,800.00	12,637.00	21,477.00	13,024.85	61.28	130.71	-141.732	-554.25	-115.01	3,032.13	2,955.18	76.95	39.405		
15,900.00	12,637.00	21,477.00	13,024.85	62.47	130.71	-141.732	-554.25	-115.01	3,130.84	3,053.98	76.86	40.734		
16,000.00	12,637.00	21,477.00	13,024.85	63.67	130.71	-141.732	-554.25	-115.01	3,229.62	3,152.84	76.79	42.059		
16,100.00	12,637.00	21,477.00	13,024.85	64.88	130.71	-141.732	-554.25	-115.01	3,328.48	3,251.75	76.73	43.380		
16,200.00	12,637.00	21,477.00	13,024.85	66.11	130.71	-141.732	-554.25	-115.01	3,427.41	3,350.72	76.68	44.696		
16,300.00	12,637.00	21,477.00	13,024.85	67.34	130.71	-141.732	-554.25	-115.01	3,526.39	3,449.75	76.65	46.008		
16,400.00	12,637.00	21,477.00	13,024.85	68.58	130.71	-141.732	-554.25	-115.01	3,625.43	3,548.81	76.62	47.316		
16,500.00	12,637.00	21,477.00	13,024.85	69.82	130.71	-141.732	-554.25	-115.01	3,724.53	3,647.92	76.61	48.619		
16,600.00	12,637.00	21,477.00	13,024.85	71.08	130.71	-141.732	-554.25	-115.01	3,823.66	3,747.06	76.60	49.917		
16,700.00	12,637.00	21,477.00	13,024.85	72.34	130.71	-141.732	-554.25	-115.01	3,922.85	3,846.25	76.60	51.211		
16,800.00	12,637.00	21,477.00	13,024.85	73.61	130.71	-141.732	-554.25	-115.01	4,022.07	3,945.46	76.61	52.500		
16,900.00	12,637.00	21,477.00	13,024.85	74.88	130.71	-141.732	-554.25	-115.01	4,121.33	4,044.71	76.63	53.785		
17,000.00	12,637.00	21,477.00	13,024.85	76.16	130.71	-141.732	-554.25	-115.01	4,220.63	4,143.98	76.65	55.065		
17,100.00	12,637.00	21,477.00	13,024.85	77.45	130.71	-141.732	-554.25	-115.01	4,319.96	4,243.28	76.68	56.340		
17,200.00	12,637.00	21,477.00	13,024.85	78.74	130.71	-141.732	-554.25	-115.01	4,419.32	4,342.61	76.71	57.610		
17,300.00	12,637.00	21,477.00	13,024.85	80.04	130.71	-141.732	-554.25	-115.01	4,518.70	4,441.95	76.75	58.875		
17,400.00	12,637.00	21,477.00	13,024.85	81.34	130.71	-141.732	-554.25	-115.01	4,618.12	4,541.32	76.79	60.136		
17,500.00	12,637.00	21,477.00	13,024.85	82.65	130.71	-141.732	-554.25	-115.01	4,717.56	4,640.71	76.84	61.392		
17,600.00	12,637.00	21,477.00	13,024.85	83.96	130.71	-141.732	-554.25	-115.01	4,817.02	4,740.12	76.90	62.643		
17,700.00	12,637.00	21,477.00	13,024.85	85.27	130.71	-141.732	-554.25	-115.01	4,916.50	4,839.55	76.95	63.889		
17,800.00	12,637.00	21,477.00	13,024.85	86.59	130.71	-141.732	-554.25	-115.01	5,016.00	4,938.99	77.02	65.130		
17,900.00	12,637.00	21,477.00	13,024.85	87.91	130.71	-141.732	-554.25	-115.01	5,115.53	5,038.45	77.08	66.366		
18,000.00	12,637.00	21,477.00	13,024.85	89.24	130.71	-141.732	-554.25	-115.01	5,215.07	5,137.92	77.15	67.597		
18,100.00	12,637.00	21,477.00	13,024.85	90.57	130.71	-141.732	-554.25	-115.01	5,314.63	5,237.41	77.22	68.823		
18,200.00	12,637.00	21,477.00	13,024.85	91.90	130.71	-141.732	-554.25	-115.01	5,414.20	5,336.91	77.30	70.044		
18,300.00	12,637.00	21,477.00	13,024.85	93.24	130.71	-141.732	-554.25	-115.01	5,513.79	5,436.42	77.38	71.260		
18,400.00	12,637.00	21,477.00	13,024.85	94.58	130.71	-141.732	-554.25	-115.01	5,613.40	5,535.94	77.46	72.471		
18,500.00	12,637.00	21,477.00	13,024.85	95.92	130.71	-141.732	-554.25	-115.01	5,713.02	5,635.48	77.54	73.677		
18,600.00	12,637.00	21,477.00	13,024.85	97.26	130.71	-141.732	-554.25	-115.01	5,812.65	5,735.02	77.63	74.878		
18,700.00	12,637.00	21,477.00	13,024.85	98.61	130.71	-141.732	-554.25	-115.01	5,912.29	5,834.58	77.72	76.073		
18,800.00	12,637.00	21,477.00	13,024.85	99.96	130.71	-141.732	-554.25	-115.01	6,011.95	5,934.14	77.81	77.264		
18,900.00	12,637.00	21,477.00	13,024.85	101.31	130.71	-141.732	-554.25	-115.01	6,111.62	6,033.71	77.91	78.449		
19,000.00	12,637.00	21,477.00	13,024.85	102.67	130.71	-141.732	-554.25	-115.01	6,211.30	6,133.29	78.00	79.629		
19,100.00	12,637.00	21,477.00	13,024.85	104.02	130.71	-141.732	-554.25	-115.01	6,310.98	6,232.88	78.10	80.804		

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 512H - OH / 68637 - Surveys (H&P 625)												Offset Site Error:	0.00 usft
Survey Program: 124-MWD+HDCM												Offset Well Error:	1.00 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,200.00	12,637.00	21,477.00	13,024.85	105.38	130.71	-141.732	-554.25	-115.01	6,410.68	6,332.48	78.20	81.973	
19,300.00	12,637.00	21,477.00	13,024.85	106.74	130.71	-141.732	-554.25	-115.01	6,510.39	6,432.08	78.31	83.138	
19,400.00	12,637.00	21,477.00	13,024.85	108.11	130.71	-141.732	-554.25	-115.01	6,610.10	6,531.69	78.41	84.297	
19,500.00	12,637.00	21,477.00	13,024.85	109.47	130.71	-141.732	-554.25	-115.01	6,709.83	6,631.31	78.52	85.451	
19,600.00	12,637.00	21,477.00	13,024.85	110.84	130.71	-141.732	-554.25	-115.01	6,809.56	6,730.93	78.63	86.600	
19,700.00	12,637.00	21,477.00	13,024.85	112.20	130.71	-141.732	-554.25	-115.01	6,909.30	6,830.56	78.74	87.744	
19,800.00	12,637.00	21,477.00	13,024.85	113.57	130.71	-141.732	-554.25	-115.01	7,009.05	6,930.19	78.86	88.882	
19,900.00	12,637.00	21,477.00	13,024.85	114.95	130.71	-141.732	-554.25	-115.01	7,108.80	7,029.83	78.97	90.016	
20,000.00	12,637.00	21,477.00	13,024.85	116.32	130.71	-141.732	-554.25	-115.01	7,208.57	7,129.48	79.09	91.144	
20,100.00	12,637.00	21,477.00	13,024.85	117.69	130.71	-141.732	-554.25	-115.01	7,308.33	7,229.13	79.21	92.266	
20,200.00	12,637.00	21,477.00	13,024.85	119.07	130.71	-141.732	-554.25	-115.01	7,408.11	7,328.78	79.33	93.384	
20,300.00	12,637.00	21,477.00	13,024.85	120.45	130.71	-141.732	-554.25	-115.01	7,507.89	7,428.44	79.45	94.496	
20,400.00	12,637.00	21,477.00	13,024.85	121.83	130.71	-141.732	-554.25	-115.01	7,607.68	7,528.10	79.58	95.603	
20,500.00	12,637.00	21,477.00	13,024.85	123.21	130.71	-141.732	-554.25	-115.01	7,707.47	7,627.77	79.70	96.705	
20,600.00	12,637.00	21,477.00	13,024.85	124.59	130.71	-141.732	-554.25	-115.01	7,807.26	7,727.44	79.83	97.802	
20,700.00	12,637.00	21,477.00	13,024.85	125.97	130.71	-141.732	-554.25	-115.01	7,907.07	7,827.11	79.96	98.893	
20,800.00	12,637.00	21,477.00	13,024.85	127.35	130.71	-141.732	-554.25	-115.01	8,006.87	7,926.79	80.09	99.979	
20,900.00	12,637.00	21,477.00	13,024.85	128.74	130.71	-141.732	-554.25	-115.01	8,106.69	8,026.47	80.22	101.060	
21,000.00	12,637.00	21,477.00	13,024.85	130.12	130.71	-141.732	-554.25	-115.01	8,206.50	8,126.15	80.35	102.136	
21,100.00	12,637.00	21,477.00	13,024.85	131.51	130.71	-141.732	-554.25	-115.01	8,306.32	8,225.84	80.48	103.207	
21,200.00	12,637.00	21,477.00	13,024.85	132.90	130.71	-141.732	-554.25	-115.01	8,406.15	8,325.53	80.62	104.272	
21,300.00	12,637.00	21,477.00	13,024.85	134.29	130.71	-141.732	-554.25	-115.01	8,505.98	8,425.22	80.75	105.333	
21,400.00	12,637.00	21,477.00	13,024.85	135.68	130.71	-141.732	-554.25	-115.01	8,605.81	8,524.92	80.89	106.388	
21,500.00	12,637.00	21,477.00	13,024.85	137.07	130.71	-141.732	-554.25	-115.01	8,705.65	8,624.62	81.03	107.438	
21,600.00	12,637.00	21,477.00	13,024.85	138.46	130.71	-141.732	-554.25	-115.01	8,805.49	8,724.32	81.17	108.483	
21,700.00	12,637.00	21,477.00	13,024.85	139.85	130.71	-141.732	-554.25	-115.01	8,905.33	8,824.02	81.31	109.523	
21,800.00	12,637.00	21,477.00	13,024.85	141.25	130.71	-141.732	-554.25	-115.01	9,005.18	8,923.73	81.45	110.557	
21,900.00	12,637.00	21,477.00	13,024.85	142.64	130.71	-141.732	-554.25	-115.01	9,105.03	9,023.43	81.60	111.587	
22,000.00	12,637.00	21,477.00	13,024.85	144.04	130.71	-141.732	-554.25	-115.01	9,204.89	9,123.14	81.74	112.611	
22,100.00	12,637.00	21,477.00	13,024.85	145.43	130.71	-141.732	-554.25	-115.01	9,304.74	9,222.86	81.89	113.631	
22,200.00	12,637.00	21,477.00	13,024.85	146.83	130.71	-141.732	-554.25	-115.01	9,404.60	9,322.57	82.03	114.645	
22,300.00	12,637.00	21,477.00	13,024.85	148.23	130.71	-141.732	-554.25	-115.01	9,504.47	9,422.29	82.18	115.655	
22,400.00	12,637.00	21,477.00	13,024.85	149.63	130.71	-141.732	-554.25	-115.01	9,604.33	9,522.00	82.33	116.659	
22,500.00	12,637.00	21,477.00	13,024.85	151.02	130.71	-141.732	-554.25	-115.01	9,704.20	9,621.72	82.48	117.659	
22,600.00	12,637.00	21,477.00	13,024.85	152.42	130.71	-141.732	-554.25	-115.01	9,804.07	9,721.45	82.63	118.653	
22,700.00	12,637.00	21,477.00	13,024.85	153.83	130.71	-141.732	-554.25	-115.01	9,903.95	9,821.17	82.78	119.642	
22,800.00	12,637.00	21,477.00	13,024.85	155.23	130.71	-141.732	-554.25	-115.01	10,003.82	9,920.89	82.93	120.627	
22,900.00	12,637.00	21,477.00	13,024.85	156.63	130.71	-141.732	-554.25	-115.01	10,103.70	10,020.62	83.09	121.607	
23,000.00	12,637.00	21,477.00	13,024.85	158.03	130.71	-141.732	-554.25	-115.01	10,203.59	10,120.35	83.24	122.581	
23,100.00	12,637.00	21,477.00	13,024.85	159.43	130.71	-141.732	-554.25	-115.01	10,303.47	10,220.07	83.39	123.551	
23,124.22	12,637.00	21,477.00	13,024.85	159.77	130.71	-141.732	-554.25	-115.01	10,327.66	10,244.23	83.43	123.785	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 513H - OH / 68705 - Surveys (H&P 656)													Offset Site Error: 0.00 usft
Survey Program: 188-MWD+HDGM													Offset Well Error: 1.00 usft
Reference													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	43.09	-9.91	1.00	1.00	8.497	7,916.85	1,182.79	8,004.72				
100.00	100.00	124.38	71.37	1.08	1.02	8.492	7,917.15	1,182.12	8,004.96	8,002.86	2.10	3,807.431	
200.00	200.00	188.00	134.99	1.60	1.04	8.485	7,917.58	1,181.13	8,005.46	8,002.82	2.64	3,032.412	
300.00	300.00	279.07	226.04	2.01	1.18	8.471	7,918.53	1,179.32	8,006.21	8,003.02	3.19	2,513.562	
400.00	400.00	339.00	285.94	2.35	1.30	8.461	7,919.36	1,178.00	8,007.31	8,003.65	3.65	2,191.113	
500.00	500.00	425.87	372.77	2.65	1.52	8.442	7,920.93	1,175.64	8,008.71	8,004.53	4.18	1,917.720	
600.00	600.00	1,235.00	1,180.46	2.93	4.09	8.520	7,892.89	1,182.47	8,002.05	7,995.06	6.99	1,144.040	
700.00	700.00	1,307.26	1,252.43	3.18	4.34	8.542	7,886.75	1,184.61	7,994.32	7,986.83	7.50	1,066.570	
800.00	800.00	1,336.96	1,282.05	3.41	4.45	8.550	7,884.68	1,185.40	7,987.85	7,980.02	7.83	1,019.648	
900.00	900.00	1,425.00	1,369.94	3.64	4.76	8.570	7,880.16	1,187.48	7,982.97	7,974.61	8.36	954.845	
1,000.00	1,000.00	1,425.00	1,369.94	3.85	4.76	8.570	7,880.16	1,187.48	7,977.71	7,969.13	8.57	930.494	
1,100.00	1,100.00	1,425.00	1,369.94	4.05	4.76	8.570	7,880.16	1,187.48	7,973.70	7,964.92	8.78	908.483	
1,200.00	1,200.00	1,425.00	1,369.94	4.24	4.76	8.570	7,880.16	1,187.48	7,970.94	7,961.97	8.97	888.464	
1,300.00	1,300.00	1,425.00	1,369.94	4.43	4.76	8.570	7,880.16	1,187.48	7,969.43	7,960.27	9.16	870.164	
1,400.00	1,400.00	1,502.61	1,447.52	4.61	5.02	8.580	7,878.38	1,188.73	7,967.70	7,958.10	9.60	829.796	
1,463.82	1,463.82	1,518.91	1,463.82	4.72	5.08	8.582	7,878.31	1,188.90	7,967.51	7,957.74	9.77	815.625	
1,500.00	1,500.00	1,528.15	1,473.05	4.78	5.11	8.582	7,878.31	1,188.98	7,967.57	7,957.71	9.86	807.825	
1,600.00	1,599.98	1,614.00	1,558.89	5.03	5.40	118.034	7,879.94	1,189.19	7,970.09	7,959.80	10.29	774.418	
1,629.90	1,629.86	1,614.00	1,558.89	5.06	5.40	118.020	7,879.94	1,189.19	7,970.87	7,960.56	10.31	773.375	
1,700.00	1,699.88	1,614.00	1,558.89	5.14	5.40	118.020	7,879.94	1,189.19	7,973.29	7,962.93	10.37	769.069	
1,800.00	1,799.78	1,614.00	1,558.89	5.31	5.40	118.020	7,879.94	1,189.19	7,977.82	7,967.31	10.51	759.415	
1,900.00	1,899.68	1,688.63	1,633.47	5.50	5.65	118.037	7,882.54	1,188.99	7,983.30	7,972.39	10.91	731.886	
2,000.00	1,999.58	1,806.64	1,751.42	5.70	6.04	118.066	7,886.42	1,188.76	7,988.66	7,977.19	11.46	697.051	
2,100.00	2,099.47	1,803.00	1,747.78	5.91	6.03	118.065	7,886.30	1,188.77	7,994.57	7,982.97	11.60	689.239	
2,200.00	2,199.37	1,894.67	1,839.38	6.14	6.34	118.084	7,889.90	1,188.32	8,000.56	7,988.49	12.07	662.946	
2,300.00	2,299.27	1,939.76	1,884.41	6.37	6.49	118.091	7,892.18	1,187.87	8,007.54	7,995.16	12.38	646.966	
2,400.00	2,399.16	1,992.00	1,936.55	6.61	6.67	118.098	7,895.24	1,187.15	8,015.20	8,002.49	12.71	630.542	
2,500.00	2,499.06	2,118.04	2,062.34	6.86	7.10	118.111	7,902.83	1,185.11	8,023.07	8,009.76	13.31	602.852	
2,600.00	2,598.96	2,239.48	2,183.59	7.12	7.52	118.124	7,909.59	1,183.09	8,030.44	8,016.55	13.89	578.048	
2,700.00	2,698.86	2,339.68	2,283.62	7.38	7.87	118.138	7,915.02	1,181.82	8,037.75	8,023.35	14.40	558.034	
2,800.00	2,798.75	2,451.05	2,394.83	7.65	8.26	118.156	7,920.94	1,180.81	8,045.01	8,030.05	14.96	537.876	
2,900.00	2,898.65	2,550.57	2,494.21	7.92	8.61	118.174	7,926.10	1,180.06	8,052.15	8,036.68	15.47	520.483	
3,000.00	2,998.55	2,647.58	2,591.09	8.20	8.95	118.192	7,931.13	1,179.54	8,059.34	8,043.36	15.98	504.459	
3,100.00	3,098.44	2,727.47	2,670.87	8.48	9.23	118.210	7,935.32	1,179.44	8,066.65	8,050.23	16.42	491.209	
3,200.00	3,198.34	2,805.87	2,749.16	8.77	9.50	118.231	7,939.56	1,179.90	8,074.23	8,057.36	16.86	478.799	
3,300.00	3,298.24	2,888.99	2,832.15	9.05	9.80	118.256	7,944.18	1,180.92	8,082.05	8,064.73	17.32	466.551	
3,400.00	3,398.14	2,976.59	2,919.59	9.35	10.10	118.286	7,949.14	1,182.33	8,090.04	8,072.24	17.80	454.506	
3,500.00	3,498.03	3,033.00	2,975.90	9.64	10.30	118.306	7,952.38	1,183.40	8,098.25	8,080.09	18.16	445.841	
3,600.00	3,597.93	3,124.96	3,067.67	9.94	10.63	118.334	7,958.02	1,184.66	8,106.70	8,088.04	18.66	434.467	
3,700.00	3,697.83	3,222.00	3,164.49	10.23	10.97	118.355	7,964.71	1,184.73	8,115.66	8,096.49	19.17	423.289	
3,800.00	3,797.72	3,259.93	3,202.31	10.53	11.11	118.361	7,967.51	1,184.55	8,124.86	8,105.39	19.47	417.264	
3,900.00	3,897.62	3,326.49	3,268.68	10.84	11.35	118.374	7,972.59	1,184.49	8,134.55	8,114.67	19.88	409.269	
4,000.00	3,997.52	3,411.00	3,352.91	11.14	11.65	118.393	7,979.37	1,184.87	8,144.67	8,124.32	20.35	400.299	
4,100.00	4,097.42	3,457.92	3,399.67	11.45	11.82	118.405	7,983.29	1,185.31	8,155.13	8,134.45	20.68	394.371	
4,200.00	4,197.31	3,522.22	3,463.72	11.75	12.05	118.423	7,988.86	1,186.18	8,166.06	8,144.98	21.08	387.462	
4,300.00	4,297.21	4,380.68	4,320.84	12.06	15.09	118.636	8,023.71	1,187.93	8,169.93	8,145.60	24.33	335.807	
4,400.00	4,397.11	4,457.42	4,397.55	12.37	15.35	118.643	8,023.93	1,185.87	8,171.96	8,147.18	24.77	329.873	
4,500.00	4,497.01	4,547.00	4,487.10	12.68	15.66	118.651	8,024.47	1,183.42	8,174.28	8,149.02	25.26	323.585	
4,600.00	4,596.90	4,605.72	4,545.80	13.00	15.87	118.657	8,024.98	1,182.06	8,176.89	8,151.24	25.65	318.848	
4,700.00	4,696.80	4,697.80	4,637.86	13.31	16.19	118.674	8,025.85	1,180.94	8,179.80	8,153.66	26.15	312.849	
4,800.00	4,796.70	4,811.44	4,751.51	13.62	16.59	118.703	8,026.63	1,180.68	8,182.62	8,155.89	26.72	306.190	
4,900.00	4,896.59	4,961.92	4,901.97	13.94	17.11	118.757	8,026.74	1,182.52	8,185.08	8,157.65	27.43	298.447	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design:		Cattlemen Fed Com - 513H - OH / 68705 - Surveys (H&P 656)										Offset Site Error:		0.00 usft
Survey Program:		188-MWD+HDGM						Rule Assigned:				Offset Well Error:		1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface Toolface (")	Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,996.49	20,819.00	13,031.93	14.25	122.35	-168.880	96.08	1,344.05	8,173.91	8,095.60	78.31	104.374		
5,100.00	5,096.39	20,819.00	13,031.93	14.57	122.35	-168.880	96.08	1,344.05	8,076.54	7,997.97	78.58	102.786		
5,200.00	5,196.29	20,819.00	13,031.93	14.89	122.35	-168.880	96.08	1,344.05	7,979.24	7,900.40	78.85	101.201		
5,300.00	5,296.18	20,819.00	13,031.93	15.20	122.35	-168.880	96.08	1,344.05	7,882.01	7,802.89	79.12	99.620		
5,400.00	5,396.08	20,819.00	13,031.93	15.52	122.35	-168.880	96.08	1,344.05	7,784.85	7,705.44	79.40	98.043		
5,500.00	5,495.98	20,819.00	13,031.93	15.84	122.35	-168.880	96.08	1,344.05	7,687.76	7,608.07	79.69	96.470		
5,600.00	5,595.87	20,819.00	13,031.93	16.16	122.35	-168.880	96.08	1,344.05	7,590.74	7,510.76	79.99	94.901		
5,700.00	5,695.77	20,819.00	13,031.93	16.48	122.35	-168.880	96.08	1,344.05	7,493.80	7,413.52	80.29	93.337		
5,800.00	5,795.67	20,819.00	13,031.93	16.80	122.35	-168.880	96.08	1,344.05	7,396.95	7,316.35	80.60	91.778		
5,900.00	5,895.57	20,819.00	13,031.93	17.12	122.35	-168.880	96.08	1,344.05	7,300.18	7,219.27	80.91	90.223		
6,000.00	5,995.46	20,819.00	13,031.93	17.44	122.35	-168.880	96.08	1,344.05	7,203.50	7,122.26	81.24	88.673		
6,100.00	6,095.36	20,819.00	13,031.93	17.76	122.35	-168.880	96.08	1,344.05	7,106.91	7,025.34	81.57	87.128		
6,200.00	6,195.26	20,819.00	13,031.93	18.09	122.35	-168.880	96.08	1,344.05	7,010.41	6,928.50	81.91	85.588		
6,300.00	6,295.16	20,819.00	13,031.93	18.41	122.35	-168.880	96.08	1,344.05	6,914.02	6,831.76	82.26	84.054		
6,400.00	6,395.05	20,819.00	13,031.93	18.73	122.35	-168.880	96.08	1,344.05	6,817.73	6,735.11	82.61	82.524		
6,500.00	6,494.95	20,819.00	13,031.93	19.06	122.35	-168.880	96.08	1,344.05	6,721.54	6,638.56	82.98	81.001		
6,600.00	6,594.85	20,819.00	13,031.93	19.38	122.35	-168.880	96.08	1,344.05	6,625.47	6,542.12	83.36	79.483		
6,700.00	6,694.74	20,819.00	13,031.93	19.70	122.35	-168.880	96.08	1,344.05	6,529.52	6,445.78	83.74	77.971		
6,800.00	6,794.64	20,819.00	13,031.93	20.03	122.35	-168.880	96.08	1,344.05	6,433.69	6,349.55	84.14	76.465		
6,900.00	6,894.54	20,819.00	13,031.93	20.35	122.35	-168.880	96.08	1,344.05	6,337.99	6,253.45	84.55	74.966		
7,000.00	6,994.44	20,819.00	13,031.93	20.68	122.35	-168.880	96.08	1,344.05	6,242.43	6,157.47	84.96	73.472		
7,100.00	7,094.33	20,819.00	13,031.93	21.00	122.35	-168.880	96.08	1,344.05	6,147.00	6,061.61	85.39	71.986		
7,200.00	7,194.23	20,819.00	13,031.93	21.33	122.35	-168.880	96.08	1,344.05	6,051.73	5,965.90	85.83	70.506		
7,300.00	7,294.13	20,819.00	13,031.93	21.65	122.35	-168.880	96.08	1,344.05	5,956.61	5,870.32	86.29	69.032		
7,400.00	7,394.02	20,819.00	13,031.93	21.98	122.35	-168.880	96.08	1,344.05	5,861.65	5,774.90	86.75	67.566		
7,500.00	7,493.92	20,819.00	13,031.93	22.30	122.35	-168.880	96.08	1,344.05	5,766.86	5,679.63	87.24	66.107		
7,600.00	7,593.82	20,819.00	13,031.93	22.63	122.35	-168.880	96.08	1,344.05	5,672.25	5,584.52	87.73	64.655		
7,700.00	7,693.72	20,819.00	13,031.93	22.95	122.35	-168.880	96.08	1,344.05	5,577.83	5,489.59	88.24	63.211		
7,800.00	7,793.61	20,819.00	13,031.93	23.28	122.35	-168.880	96.08	1,344.05	5,483.61	5,394.84	88.77	61.775		
7,900.00	7,893.51	20,819.00	13,031.93	23.61	122.35	-168.880	96.08	1,344.05	5,389.59	5,300.28	89.31	60.347		
8,000.00	7,993.41	20,819.00	13,031.93	23.93	122.35	-168.880	96.08	1,344.05	5,295.80	5,205.93	89.87	58.926		
8,100.00	8,093.31	20,819.00	13,031.93	24.26	122.35	-168.880	96.08	1,344.05	5,202.23	5,111.78	90.45	57.515		
8,200.00	8,193.20	20,819.00	13,031.93	24.59	122.35	-168.880	96.08	1,344.05	5,108.91	5,017.86	91.05	56.112		
8,300.00	8,293.10	20,819.00	13,031.93	24.92	122.35	-168.880	96.08	1,344.05	5,015.85	4,924.18	91.67	54.717		
8,400.00	8,393.00	20,819.00	13,031.93	25.24	122.35	-168.880	96.08	1,344.05	4,923.06	4,830.75	92.31	53.332		
8,500.00	8,492.89	20,819.00	13,031.93	25.57	122.35	-168.880	96.08	1,344.05	4,830.55	4,737.58	92.97	51.957		
8,600.00	8,592.79	20,819.00	13,031.93	25.90	122.35	-168.880	96.08	1,344.05	4,738.35	4,644.69	93.66	50.591		
8,700.00	8,692.69	20,819.00	13,031.93	26.23	122.35	-168.880	96.08	1,344.05	4,646.48	4,552.10	94.37	49.235		
8,800.00	8,792.59	20,819.00	13,031.93	26.55	122.35	-168.880	96.08	1,344.05	4,554.94	4,459.83	95.11	47.890		
8,900.00	8,892.48	20,819.00	13,031.93	26.88	122.35	-168.880	96.08	1,344.05	4,463.77	4,367.89	95.88	46.555		
9,000.00	8,992.38	20,819.00	13,031.93	27.21	122.35	-168.880	96.08	1,344.05	4,372.99	4,276.31	96.68	45.231		
9,100.00	9,092.28	20,819.00	13,031.93	27.54	122.35	-168.880	96.08	1,344.05	4,282.61	4,185.10	97.51	43.919		
9,200.00	9,192.17	20,819.00	13,031.93	27.87	122.35	-168.880	96.08	1,344.05	4,192.67	4,094.30	98.38	42.619		
9,300.00	9,292.07	20,819.00	13,031.93	28.19	122.35	-168.880	96.08	1,344.05	4,103.20	4,003.93	99.28	41.331		
9,400.00	9,391.97	20,859.53	13,031.85	28.52	122.89	-167.632	55.58	1,345.37	4,012.75	3,912.15	100.60	39.889		
9,500.00	9,491.87	20,860.12	13,031.87	28.85	122.90	-167.614	54.99	1,345.40	3,924.26	3,822.68	101.59	38.630		
9,600.00	9,591.76	20,860.73	13,031.89	29.18	122.91	-167.595	54.37	1,345.42	3,836.34	3,733.72	102.62	37.385		
9,700.00	9,691.66	20,861.38	13,031.91	29.51	122.92	-167.575	53.73	1,345.45	3,749.02	3,645.33	103.69	36.155		
9,800.00	9,791.56	20,862.05	13,031.93	29.84	122.93	-167.554	53.06	1,345.48	3,662.35	3,557.53	104.82	34.940		
9,900.00	9,891.45	20,862.75	13,031.95	30.17	122.94	-167.532	52.36	1,345.51	3,576.37	3,470.38	105.99	33.742		
10,000.00	9,991.35	20,863.49	13,031.98	30.50	122.95	-167.510	51.62	1,345.54	3,491.14	3,383.91	107.22	32.560		
10,100.00	10,091.25	20,864.26	13,032.00	30.83	122.96	-167.486	50.85	1,345.57	3,406.71	3,298.20	108.51	31.395		

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 513H - OH / 68705 - Surveys (H&P 656)													Offset Site Error:	0.00 usft
Survey Program:		188-MWD+HDGM					Rule Assigned:		Offset Well Error:		1.00 usft			
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,200.00	10,191.15	20,865.07	13,032.03	31.15	122.97	-167.461	50.05	1,345.61	3,323.14	3,213.28	109.86	30.249		
10,300.00	10,291.04	20,865.92	13,032.07	31.48	122.98	-167.435	49.20	1,345.65	3,240.51	3,129.24	111.27	29.123		
10,400.00	10,390.94	20,866.81	13,032.10	31.81	122.99	-167.407	48.31	1,345.69	3,158.87	3,046.13	112.75	28.018		
10,500.00	10,490.84	20,867.75	13,032.14	32.14	123.00	-167.378	47.37	1,345.73	3,078.32	2,964.03	114.29	26.934		
10,600.00	10,590.74	20,868.74	13,032.18	32.47	123.02	-167.347	46.38	1,345.77	2,998.94	2,883.03	115.91	25.873		
10,700.00	10,690.63	20,869.79	13,032.22	32.80	123.03	-167.315	45.34	1,345.82	2,920.82	2,803.21	117.61	24.836		
10,800.00	10,790.53	20,870.89	13,032.27	33.13	123.05	-167.281	44.23	1,345.87	2,844.07	2,724.69	119.38	23.824		
10,900.00	10,890.43	20,872.07	13,032.33	33.46	123.06	-167.245	43.06	1,345.93	2,768.81	2,647.58	121.23	22.840		
11,000.00	10,990.32	20,873.31	13,032.39	33.79	123.08	-167.206	41.82	1,345.99	2,695.15	2,571.99	123.16	21.884		
11,100.00	11,090.22	20,874.63	13,032.45	34.12	123.10	-167.165	40.50	1,346.05	2,623.23	2,498.06	125.17	20.958		
11,200.00	11,190.12	20,876.04	13,032.53	34.45	123.12	-167.122	39.10	1,346.12	2,553.20	2,425.94	127.26	20.063		
11,300.00	11,290.02	20,913.00	13,035.52	34.78	123.61	-165.981	2.33	1,348.23	2,486.33	2,356.54	129.79	19.156		
11,400.00	11,389.91	20,913.00	13,035.52	35.11	123.61	-165.981	2.33	1,348.23	2,420.46	2,288.44	132.01	18.335		
11,444.32	11,434.18	20,913.00	13,035.52	35.25	123.61	-165.981	2.33	1,348.23	2,392.02	2,259.01	133.02	17.983		
11,500.00	11,489.83	20,913.00	13,035.52	35.42	123.61	-165.757	2.33	1,348.23	2,356.58	2,222.30	134.28	17.550		
11,574.22	11,564.04	20,913.00	13,035.52	35.53	123.61	85.084	2.33	1,348.23	2,309.30	2,173.41	135.89	16.994		
11,600.00	11,589.82	20,913.00	13,035.52	35.53	123.61	85.084	2.33	1,348.23	2,292.96	2,156.54	136.42	16.808		
11,700.00	11,689.82	20,913.00	13,035.52	35.54	123.61	85.084	2.33	1,348.23	2,231.26	2,092.74	138.52	16.108		
11,800.00	11,789.82	20,913.00	13,035.52	35.56	123.61	85.084	2.33	1,348.23	2,172.42	2,031.78	140.64	15.447		
11,900.00	11,889.82	20,913.00	13,035.52	35.58	123.61	85.084	2.33	1,348.23	2,116.66	1,973.91	142.75	14.827		
12,000.00	11,989.82	20,913.00	13,035.52	35.60	123.61	85.084	2.33	1,348.23	2,064.25	1,919.40	144.85	14.251		
12,074.22	12,064.04	20,913.00	13,035.52	35.61	123.61	85.084	2.33	1,348.23	2,027.66	1,881.28	146.38	13.852		
12,100.00	12,089.81	20,913.00	13,035.52	35.62	123.61	-95.721	2.33	1,348.23	2,015.48	1,868.58	146.90	13.720		
12,150.00	12,139.60	20,913.00	13,035.52	35.69	123.61	-98.232	2.33	1,348.23	1,992.91	1,844.99	147.91	13.473		
12,200.00	12,188.82	20,913.00	13,035.52	35.77	123.61	-100.515	2.33	1,348.23	1,971.91	1,823.01	148.91	13.243		
12,250.00	12,237.08	20,913.00	13,035.52	35.86	123.61	-102.553	2.33	1,348.23	1,952.71	1,802.84	149.86	13.030		
12,300.00	12,284.02	20,913.00	13,035.52	35.96	123.61	-104.337	2.33	1,348.23	1,935.50	1,784.72	150.78	12.837		
12,350.00	12,329.30	21,023.62	13,040.60	36.06	125.11	-102.929	-107.88	1,355.37	1,919.62	1,766.61	153.00	12.546		
12,400.00	12,372.55	21,066.78	13,039.94	36.17	125.69	-103.246	-150.95	1,358.00	1,905.08	1,750.70	154.37	12.341		
12,450.00	12,413.46	21,113.66	13,038.34	36.28	126.32	-103.346	-197.72	1,360.68	1,892.10	1,736.36	155.73	12.150		
12,500.00	12,451.70	21,162.79	13,036.79	36.40	126.98	-103.313	-246.78	1,362.95	1,880.61	1,723.56	157.05	11.975		
12,550.00	12,487.00	21,191.39	13,036.06	36.51	127.37	-103.665	-275.35	1,363.93	1,870.53	1,712.42	158.11	11.831		
12,600.00	12,519.08	21,219.92	13,035.48	36.63	127.75	-103.897	-303.86	1,365.03	1,862.24	1,703.12	159.12	11.703		
12,650.00	12,547.69	21,239.36	13,035.28	36.75	128.02	-104.169	-323.27	1,365.97	1,855.92	1,695.93	159.99	11.600		
12,700.00	12,572.62	21,260.11	13,035.22	36.86	128.30	-104.275	-343.98	1,367.19	1,851.55	1,690.74	160.81	11.514		
12,750.00	12,593.68	21,289.00	13,035.40	36.99	128.69	-104.150	-372.80	1,369.26	1,849.10	1,687.44	161.66	11.438		
12,799.71	12,610.63	21,316.09	13,035.67	37.11	129.06	-103.948	-399.80	1,371.44	1,848.37	1,685.93	162.44	11.379 CC		
12,800.00	12,610.72	21,316.32	13,035.67	37.11	129.06	-103.946	-400.03	1,371.46	1,848.37	1,685.92	162.45	11.378		
12,850.00	12,623.59	21,356.82	13,035.90	37.23	129.61	-103.552	-440.38	1,374.90	1,849.05	1,685.70	163.35	11.320 ES		
12,900.00	12,632.20	21,400.67	13,035.92	37.36	130.21	-103.111	-484.05	1,378.86	1,851.01	1,686.75	164.26	11.269		
12,950.00	12,636.49	21,450.30	13,035.90	37.49	130.88	-102.658	-533.48	1,383.40	1,854.04	1,688.82	165.22	11.222		
12,974.22	12,637.00	21,474.00	13,035.88	37.55	131.20	-102.452	-557.08	1,385.57	1,855.86	1,690.19	165.66	11.203 SF		
13,000.00	12,637.00	21,474.00	13,035.88	37.62	131.20	-102.452	-557.08	1,385.57	1,858.09	1,692.32	165.78	11.209		
13,100.00	12,637.00	21,474.00	13,035.88	37.92	131.20	-102.452	-557.08	1,385.57	1,870.10	1,704.13	165.97	11.268		
13,200.00	12,637.00	21,474.00	13,035.88	38.28	131.20	-102.452	-557.08	1,385.57	1,887.33	1,721.53	165.80	11.383		
13,300.00	12,637.00	21,474.00	13,035.88	38.69	131.20	-102.452	-557.08	1,385.57	1,909.66	1,744.38	165.28	11.554		
13,400.00	12,637.00	21,474.00	13,035.88	39.15	131.20	-102.452	-557.08	1,385.57	1,936.89	1,772.46	164.44	11.779		
13,500.00	12,637.00	21,474.00	13,035.88	39.66	131.20	-102.452	-557.08	1,385.57	1,968.84	1,805.53	163.31	12.056		
13,600.00	12,637.00	21,474.00	13,035.88	40.23	131.20	-102.452	-557.08	1,385.57	2,005.26	1,843.34	161.93	12.384		
13,700.00	12,637.00	21,474.00	13,035.88	40.84	131.20	-102.452	-557.08	1,385.57	2,045.93	1,885.60	160.33	12.761		
13,800.00	12,637.00	21,474.00	13,035.88	41.49	131.20	-102.452	-557.08	1,385.57	2,090.60	1,932.03	158.57	13.184		
13,900.00	12,637.00	21,474.00	13,035.88	42.20	131.20	-102.452	-557.08	1,385.57	2,139.01	1,982.34	156.67	13.653		

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 513H - OH / 68705 - Surveys (H&P 656)												Offset Site Error:	0.00 usft
Survey Program: 188-MWD+HDGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,000.00	12,637.00	21,474.00	13,035.88	42.94	131.20	-102.452	-557.08	1,385.57	2,190.92	2,036.26	154.67	14.166	
14,100.00	12,637.00	21,474.00	13,035.88	43.73	131.20	-102.452	-557.08	1,385.57	2,246.08	2,093.49	152.59	14.719	
14,200.00	12,637.00	21,474.00	13,035.88	44.55	131.20	-102.452	-557.08	1,385.57	2,304.27	2,153.79	150.48	15.313	
14,300.00	12,637.00	21,474.00	13,035.88	45.41	131.20	-102.452	-557.08	1,385.57	2,365.25	2,216.91	148.34	15.944	
14,400.00	12,637.00	21,474.00	13,035.88	46.30	131.20	-102.452	-557.08	1,385.57	2,428.82	2,282.61	146.21	16.612	
14,500.00	12,637.00	21,474.00	13,035.88	47.23	131.20	-102.452	-557.08	1,385.57	2,494.78	2,350.69	144.10	17.313	
14,600.00	12,637.00	21,474.00	13,035.88	48.18	131.20	-102.452	-557.08	1,385.57	2,562.95	2,420.93	142.02	18.047	
14,700.00	12,637.00	21,474.00	13,035.88	49.16	131.20	-102.452	-557.08	1,385.57	2,633.15	2,493.17	139.98	18.811	
14,800.00	12,637.00	21,474.00	13,035.88	50.17	131.20	-102.452	-557.08	1,385.57	2,705.22	2,567.24	137.99	19.605	
14,900.00	12,637.00	21,474.00	13,035.88	51.19	131.20	-102.452	-557.08	1,385.57	2,779.03	2,642.97	136.05	20.426	
15,000.00	12,637.00	21,474.00	13,035.88	52.25	131.20	-102.452	-557.08	1,385.57	2,854.43	2,720.25	134.18	21.273	
15,100.00	12,637.00	21,474.00	13,035.88	53.32	131.20	-102.452	-557.08	1,385.57	2,931.30	2,798.92	132.38	22.144	
15,200.00	12,637.00	21,474.00	13,035.88	54.41	131.20	-102.452	-557.08	1,385.57	3,009.53	2,878.90	130.64	23.037	
15,300.00	12,637.00	21,474.00	13,035.88	55.51	131.20	-102.452	-557.08	1,385.57	3,089.02	2,960.06	128.96	23.952	
15,400.00	12,637.00	21,474.00	13,035.88	56.64	131.20	-102.452	-557.08	1,385.57	3,169.67	3,042.31	127.36	24.888	
15,500.00	12,637.00	21,474.00	13,035.88	57.78	131.20	-102.452	-557.08	1,385.57	3,251.40	3,125.58	125.82	25.841	
15,600.00	12,637.00	21,474.00	13,035.88	58.93	131.20	-102.452	-557.08	1,385.57	3,334.12	3,209.77	124.35	26.813	
15,700.00	12,637.00	21,474.00	13,035.88	60.10	131.20	-102.452	-557.08	1,385.57	3,417.76	3,294.82	122.94	27.800	
15,800.00	12,637.00	21,474.00	13,035.88	61.28	131.20	-102.452	-557.08	1,385.57	3,502.27	3,380.67	121.59	28.803	
15,900.00	12,637.00	21,474.00	13,035.88	62.47	131.20	-102.452	-557.08	1,385.57	3,587.57	3,467.26	120.31	29.820	
16,000.00	12,637.00	21,474.00	13,035.88	63.67	131.20	-102.452	-557.08	1,385.57	3,673.61	3,554.53	119.08	30.850	
16,100.00	12,637.00	21,474.00	13,035.88	64.88	131.20	-102.452	-557.08	1,385.57	3,760.34	3,642.43	117.91	31.892	
16,200.00	12,637.00	21,474.00	13,035.88	66.11	131.20	-102.452	-557.08	1,385.57	3,847.72	3,730.93	116.79	32.946	
16,300.00	12,637.00	21,474.00	13,035.88	67.34	131.20	-102.452	-557.08	1,385.57	3,935.69	3,819.97	115.72	34.009	
16,400.00	12,637.00	21,474.00	13,035.88	68.58	131.20	-102.452	-557.08	1,385.57	4,024.23	3,909.52	114.71	35.082	
16,500.00	12,637.00	21,474.00	13,035.88	69.82	131.20	-102.452	-557.08	1,385.57	4,113.30	3,999.56	113.74	36.164	
16,600.00	12,637.00	21,474.00	13,035.88	71.08	131.20	-102.452	-557.08	1,385.57	4,202.85	4,090.04	112.82	37.254	
16,700.00	12,637.00	21,474.00	13,035.88	72.34	131.20	-102.452	-557.08	1,385.57	4,292.87	4,180.93	111.94	38.351	
16,800.00	12,637.00	21,474.00	13,035.88	73.61	131.20	-102.452	-557.08	1,385.57	4,383.32	4,272.22	111.10	39.454	
16,900.00	12,637.00	21,474.00	13,035.88	74.88	131.20	-102.452	-557.08	1,385.57	4,474.18	4,363.88	110.30	40.564	
17,000.00	12,637.00	21,474.00	13,035.88	76.16	131.20	-102.452	-557.08	1,385.57	4,565.42	4,455.88	109.54	41.679	
17,100.00	12,637.00	21,474.00	13,035.88	77.45	131.20	-102.452	-557.08	1,385.57	4,657.01	4,548.20	108.81	42.798	
17,200.00	12,637.00	21,474.00	13,035.88	78.74	131.20	-102.452	-557.08	1,385.57	4,748.95	4,640.83	108.12	43.922	
17,300.00	12,637.00	21,474.00	13,035.88	80.04	131.20	-102.452	-557.08	1,385.57	4,841.21	4,733.75	107.46	45.050	
17,400.00	12,637.00	21,474.00	13,035.88	81.34	131.20	-102.452	-557.08	1,385.57	4,933.77	4,826.93	106.84	46.181	
17,500.00	12,637.00	21,474.00	13,035.88	82.65	131.20	-102.452	-557.08	1,385.57	5,026.61	4,920.37	106.24	47.315	
17,600.00	12,637.00	21,474.00	13,035.88	83.96	131.20	-102.452	-557.08	1,385.57	5,119.73	5,014.06	105.67	48.451	
17,700.00	12,637.00	21,474.00	13,035.88	85.27	131.20	-102.452	-557.08	1,385.57	5,213.10	5,107.97	105.13	49.589	
17,800.00	12,637.00	21,474.00	13,035.88	86.59	131.20	-102.452	-557.08	1,385.57	5,306.71	5,202.10	104.61	50.729	
17,900.00	12,637.00	21,474.00	13,035.88	87.91	131.20	-102.452	-557.08	1,385.57	5,400.55	5,296.43	104.12	51.871	
18,000.00	12,637.00	21,474.00	13,035.88	89.24	131.20	-102.452	-557.08	1,385.57	5,494.60	5,390.96	103.65	53.013	
18,100.00	12,637.00	21,474.00	13,035.88	90.57	131.20	-102.452	-557.08	1,385.57	5,588.87	5,485.67	103.20	54.156	
18,200.00	12,637.00	21,474.00	13,035.88	91.90	131.20	-102.452	-557.08	1,385.57	5,683.32	5,580.55	102.77	55.299	
18,300.00	12,637.00	21,474.00	13,035.88	93.24	131.20	-102.452	-557.08	1,385.57	5,777.97	5,675.60	102.37	56.443	
18,400.00	12,637.00	21,474.00	13,035.88	94.58	131.20	-102.452	-557.08	1,385.57	5,872.79	5,770.81	101.98	57.586	
18,500.00	12,637.00	21,474.00	13,035.88	95.92	131.20	-102.452	-557.08	1,385.57	5,967.79	5,866.17	101.62	58.729	
18,600.00	12,637.00	21,474.00	13,035.88	97.26	131.20	-102.452	-557.08	1,385.57	6,062.94	5,961.67	101.27	59.871	
18,700.00	12,637.00	21,474.00	13,035.88	98.61	131.20	-102.452	-557.08	1,385.57	6,158.25	6,057.31	100.93	61.013	
18,800.00	12,637.00	21,474.00	13,035.88	99.96	131.20	-102.452	-557.08	1,385.57	6,253.70	6,153.08	100.62	62.153	
18,900.00	12,637.00	21,474.00	13,035.88	101.31	131.20	-102.452	-557.08	1,385.57	6,349.29	6,248.98	100.32	63.292	
19,000.00	12,637.00	21,474.00	13,035.88	102.67	131.20	-102.452	-557.08	1,385.57	6,445.02	6,344.99	100.03	64.430	
19,100.00	12,637.00	21,474.00	13,035.88	104.02	131.20	-102.452	-557.08	1,385.57	6,540.87	6,441.11	99.76	65.566	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 513H - OH / 68705 - Surveys (H&P 656)													Offset Site Error:	0.00 usft		
Survey Program:		188-MWD+HDGM		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Distance	Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
19,200.00	12,637.00	21,474.00	13,035.88	105.38	131.20	-102.452	-557.08	1,385.57	6,636.85	6,537.35	99.50	66.700				
19,300.00	12,637.00	21,474.00	13,035.88	106.74	131.20	-102.452	-557.08	1,385.57	6,732.95	6,633.69	99.26	67.833				
19,400.00	12,637.00	21,474.00	13,035.88	108.11	131.20	-102.452	-557.08	1,385.57	6,829.15	6,730.13	99.03	68.963				
19,500.00	12,637.00	21,474.00	13,035.88	109.47	131.20	-102.452	-557.08	1,385.57	6,925.47	6,826.66	98.81	70.091				
19,600.00	12,637.00	21,474.00	13,035.88	110.84	131.20	-102.452	-557.08	1,385.57	7,021.88	6,923.29	98.60	71.217				
19,700.00	12,637.00	21,474.00	13,035.88	112.20	131.20	-102.452	-557.08	1,385.57	7,118.40	7,020.00	98.40	72.340				
19,800.00	12,637.00	21,474.00	13,035.88	113.57	131.20	-102.452	-557.08	1,385.57	7,215.01	7,116.80	98.22	73.461				
19,900.00	12,637.00	21,474.00	13,035.88	114.95	131.20	-102.452	-557.08	1,385.57	7,311.71	7,213.67	98.04	74.579				
20,000.00	12,637.00	21,474.00	13,035.88	116.32	131.20	-102.452	-557.08	1,385.57	7,408.50	7,310.63	97.87	75.694				
20,100.00	12,637.00	21,474.00	13,035.88	117.69	131.20	-102.452	-557.08	1,385.57	7,505.38	7,407.66	97.72	76.806				
20,200.00	12,637.00	21,474.00	13,035.88	119.07	131.20	-102.452	-557.08	1,385.57	7,602.33	7,504.76	97.57	77.915				
20,300.00	12,637.00	21,474.00	13,035.88	120.45	131.20	-102.452	-557.08	1,385.57	7,699.36	7,601.93	97.43	79.022				
20,400.00	12,637.00	21,474.00	13,035.88	121.83	131.20	-102.452	-557.08	1,385.57	7,796.47	7,699.17	97.30	80.125				
20,500.00	12,637.00	21,474.00	13,035.88	123.21	131.20	-102.452	-557.08	1,385.57	7,893.65	7,796.47	97.18	81.225				
20,600.00	12,637.00	21,474.00	13,035.88	124.59	131.20	-102.452	-557.08	1,385.57	7,990.90	7,893.83	97.07	82.321				
20,700.00	12,637.00	21,474.00	13,035.88	125.97	131.20	-102.452	-557.08	1,385.57	8,088.22	7,991.25	96.96	83.414				
20,800.00	12,637.00	21,474.00	13,035.88	127.35	131.20	-102.452	-557.08	1,385.57	8,185.60	8,088.73	96.87	84.504				
20,900.00	12,637.00	21,474.00	13,035.88	128.74	131.20	-102.452	-557.08	1,385.57	8,283.04	8,186.27	96.78	85.590				
21,000.00	12,637.00	21,474.00	13,035.88	130.12	131.20	-102.452	-557.08	1,385.57	8,380.55	8,283.85	96.69	86.673				
21,100.00	12,637.00	21,474.00	13,035.88	131.51	131.20	-102.452	-557.08	1,385.57	8,478.11	8,381.49	96.61	87.752				
21,200.00	12,637.00	21,474.00	13,035.88	132.90	131.20	-102.452	-557.08	1,385.57	8,575.73	8,479.18	96.54	88.828				
21,300.00	12,637.00	21,474.00	13,035.88	134.29	131.20	-102.452	-557.08	1,385.57	8,673.40	8,576.92	96.48	89.900				
21,400.00	12,637.00	21,474.00	13,035.88	135.68	131.20	-102.452	-557.08	1,385.57	8,771.12	8,674.70	96.42	90.968				
21,500.00	12,637.00	21,474.00	13,035.88	137.07	131.20	-102.452	-557.08	1,385.57	8,868.90	8,772.53	96.37	92.032				
21,600.00	12,637.00	21,474.00	13,035.88	138.46	131.20	-102.452	-557.08	1,385.57	8,966.72	8,870.40	96.32	93.093				
21,700.00	12,637.00	21,474.00	13,035.88	139.85	131.20	-102.452	-557.08	1,385.57	9,064.60	8,968.32	96.28	94.149				
21,800.00	12,637.00	21,474.00	13,035.88	141.25	131.20	-102.452	-557.08	1,385.57	9,162.51	9,066.27	96.24	95.202				
21,900.00	12,637.00	21,474.00	13,035.88	142.64	131.20	-102.452	-557.08	1,385.57	9,260.48	9,164.26	96.21	96.251				
22,000.00	12,637.00	21,474.00	13,035.88	144.04	131.20	-102.452	-557.08	1,385.57	9,358.48	9,262.30	96.19	97.296				
22,100.00	12,637.00	21,474.00	13,035.88	145.43	131.20	-102.452	-557.08	1,385.57	9,456.53	9,360.36	96.16	98.337				
22,200.00	12,637.00	21,474.00	13,035.88	146.83	131.20	-102.452	-557.08	1,385.57	9,554.62	9,458.47	96.15	99.374				
22,300.00	12,637.00	21,474.00	13,035.88	148.23	131.20	-102.452	-557.08	1,385.57	9,652.74	9,556.61	96.14	100.407				
22,400.00	12,637.00	21,474.00	13,035.88	149.63	131.20	-102.452	-557.08	1,385.57	9,750.91	9,654.78	96.13	101.436				
22,500.00	12,637.00	21,474.00	13,035.88	151.02	131.20	-102.452	-557.08	1,385.57	9,849.11	9,752.99	96.13	102.461				
22,600.00	12,637.00	21,474.00	13,035.88	152.42	131.20	-102.452	-557.08	1,385.57	9,947.35	9,851.22	96.13	103.482				
22,700.00	12,637.00	21,474.00	13,035.88	153.83	131.20	-102.452	-557.08	1,385.57	10,045.62	9,949.49	96.13	104.499				
22,800.00	12,637.00	21,474.00	13,035.88	155.23	131.20	-102.452	-557.08	1,385.57	10,143.93	10,047.79	96.14	105.511				
22,900.00	12,637.00	21,474.00	13,035.88	156.63	131.20	-102.452	-557.08	1,385.57	10,242.27	10,146.11	96.15	106.520				
23,000.00	12,637.00	21,474.00	13,035.88	158.03	131.20	-102.452	-557.08	1,385.57	10,340.64	10,244.47	96.17	107.524				
23,100.00	12,637.00	21,474.00	13,035.88	159.43	131.20	-102.452	-557.08	1,385.57	10,439.04	10,342.85	96.19	108.525				
23,124.22	12,637.00	21,474.00	13,035.88	159.77	131.20	-102.452	-557.08	1,385.57	10,462.88	10,366.68	96.20	108.766				

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 404H - OH / 67732 - Surveys (H&P 474)													Offset Site Error: 0.00 usft
Survey Program: 174-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	-43.00	1.00	1.00	15.487	8,053.56	2,231.49	8,357.11				
100.00	100.00	74.58	31.57	1.08	1.10	15.491	8,053.72	2,232.06	8,357.58	8,355.41	2.18	3,841.156	
200.00	200.00	126.71	83.69	1.60	1.25	15.497	8,054.02	2,233.14	8,358.69	8,355.84	2.84	2,938.313	
300.00	300.00	407.49	364.42	2.01	2.79	15.510	8,054.28	2,235.11	8,358.90	8,354.12	4.78	1,747.943	
400.00	400.00	496.22	453.14	2.35	3.06	15.504	8,053.89	2,234.12	8,358.18	8,352.79	5.39	1,549.426	
500.00	500.00	572.12	529.04	2.65	3.22	15.501	8,053.61	2,233.68	8,357.68	8,351.82	5.86	1,425.962	
600.00	600.00	654.10	611.02	2.93	3.40	15.499	8,053.52	2,233.35	8,357.46	8,351.16	6.30	1,326.365	
700.00	700.00	760.20	717.12	3.18	3.62	15.497	8,053.48	2,232.99	8,357.34	8,350.59	6.76	1,236.783	
800.00	800.00	846.09	803.01	3.41	3.75	15.496	8,053.38	2,232.84	8,357.18	8,350.06	7.12	1,173.404	
813.25	813.25	856.33	813.25	3.44	3.77	15.496	8,053.38	2,232.84	8,357.18	8,350.01	7.17	1,166.317	
900.00	900.00	946.17	903.09	3.64	3.88	15.497	8,053.38	2,232.88	8,357.19	8,349.71	7.48	1,117.122	
1,000.00	1,000.00	1,043.59	1,000.51	3.85	4.02	15.497	8,053.34	2,232.89	8,357.16	8,349.33	7.83	1,067.884	
1,100.00	1,100.00	1,162.04	1,118.96	4.05	4.24	15.495	8,053.28	2,232.66	8,357.06	8,348.82	8.23	1,014.978	
1,163.91	1,163.91	1,206.99	1,163.90	4.17	4.28	15.495	8,053.26	2,232.57	8,357.00	8,348.60	8.40	994.967	
1,200.00	1,200.00	1,235.00	1,191.92	4.24	4.31	15.495	8,053.28	2,232.58	8,357.02	8,348.52	8.50	983.256	
1,300.00	1,300.00	1,337.50	1,294.41	4.43	4.42	15.497	8,053.25	2,232.94	8,357.09	8,348.27	8.81	948.124	
1,400.00	1,400.00	1,420.10	1,377.01	4.61	4.52	15.501	8,053.25	2,233.49	8,357.27	8,348.16	9.10	917.887	
1,500.00	1,500.00	1,510.00	1,466.92	4.78	4.63	15.504	8,053.22	2,234.04	8,357.41	8,348.01	9.40	888.927	
1,600.00	1,599.98	1,564.24	1,521.15	5.03	4.86	124.954	8,053.19	2,235.07	8,358.97	8,349.31	9.66	865.311	
1,629.90	1,629.86	1,603.00	1,559.87	5.06	5.03	124.958	8,053.24	2,236.76	8,360.07	8,350.32	9.76	856.680	
1,700.00	1,699.88	1,603.00	1,559.87	5.14	5.03	124.958	8,053.24	2,236.76	8,362.78	8,352.95	9.82	851.319	
1,800.00	1,799.78	1,643.24	1,600.02	5.31	5.43	124.985	8,053.35	2,239.35	8,367.40	8,357.33	10.07	830.569	
1,900.00	1,899.68	1,696.00	1,652.57	5.50	5.95	125.029	8,053.62	2,244.01	8,372.78	8,362.40	10.38	806.742	
2,000.00	1,999.58	1,798.51	1,754.56	5.70	6.34	125.122	8,054.07	2,254.30	8,378.54	8,367.84	10.70	782.862	
2,100.00	2,099.47	1,854.27	1,810.05	5.91	6.39	125.171	8,054.40	2,259.78	8,384.39	8,373.45	10.94	766.692	
2,200.00	2,199.37	1,929.28	1,884.70	6.14	6.52	125.237	8,055.15	2,267.10	8,390.63	8,379.42	11.21	748.736	
2,300.00	2,299.27	2,021.88	1,976.83	6.37	6.69	125.320	8,056.16	2,276.42	8,397.07	8,385.56	11.51	729.503	
2,400.00	2,399.16	2,118.42	2,072.88	6.61	6.89	125.405	8,057.23	2,286.08	8,403.54	8,391.71	11.83	710.499	
2,500.00	2,499.06	2,223.02	2,176.92	6.86	7.12	125.499	8,058.37	2,296.75	8,410.07	8,397.90	12.16	691.420	
2,600.00	2,598.96	2,330.06	2,283.37	7.12	7.37	125.598	8,059.30	2,307.98	8,416.48	8,403.97	12.51	672.704	
2,700.00	2,698.86	2,445.52	2,398.15	7.38	7.67	125.707	8,060.04	2,320.47	8,422.79	8,409.91	12.88	653.896	
2,800.00	2,798.75	2,681.08	2,632.25	7.65	8.32	125.938	8,059.04	2,346.55	8,428.15	8,414.69	13.45	626.469	
2,900.00	2,898.65	2,843.88	2,794.13	7.92	8.87	126.094	8,057.12	2,363.66	8,432.88	8,418.97	13.90	606.516	
3,000.00	2,998.55	2,880.65	2,830.76	8.20	9.00	126.123	8,056.91	2,366.77	8,437.27	8,423.11	14.15	596.123	
3,100.00	3,098.44	2,938.95	2,888.89	8.48	9.20	126.167	8,056.93	2,371.30	8,442.20	8,427.76	14.44	584.821	
3,200.00	3,198.34	3,015.00	2,964.70	8.77	9.42	126.225	8,057.21	2,377.38	8,447.53	8,432.78	14.75	572.732	
3,300.00	3,298.24	3,102.37	3,051.77	9.05	9.68	126.293	8,057.65	2,384.58	8,453.10	8,438.01	15.09	560.315	
3,400.00	3,398.14	3,183.19	3,132.31	9.35	9.93	126.355	8,058.17	2,391.22	8,458.81	8,443.39	15.42	548.655	
3,500.00	3,498.03	3,254.27	3,203.14	9.64	10.15	126.409	8,058.80	2,397.12	8,464.79	8,449.06	15.74	537.930	
3,600.00	3,597.93	3,325.92	3,274.53	9.94	10.37	126.465	8,059.68	2,403.22	8,471.15	8,455.10	16.06	527.533	
3,700.00	3,697.83	3,394.00	3,342.35	10.23	10.59	126.517	8,060.65	2,409.08	8,477.80	8,461.42	16.38	517.664	
3,800.00	3,797.72	3,489.00	3,436.93	10.53	10.89	126.594	8,062.14	2,417.84	8,484.73	8,467.98	16.75	506.416	
3,900.00	3,897.62	3,700.01	3,647.17	10.84	11.58	126.757	8,064.27	2,435.64	8,490.80	8,473.46	17.34	489.562	
4,000.00	3,997.52	4,056.22	4,002.06	11.14	12.76	127.044	8,060.81	2,465.66	8,495.56	8,477.37	18.19	467.053	
4,100.00	4,097.42	4,129.05	4,074.58	11.45	13.01	127.106	8,058.86	2,472.01	8,498.39	8,479.90	18.50	459.475	
4,200.00	4,197.31	4,230.08	4,175.24	11.75	13.34	127.189	8,056.54	2,480.35	8,501.45	8,482.60	18.85	450.967	
4,300.00	4,297.21	4,315.20	4,260.06	12.06	13.63	127.258	8,054.62	2,487.23	8,504.52	8,485.34	19.18	443.418	
4,400.00	4,397.11	4,405.12	4,349.67	12.37	13.93	127.329	8,052.79	2,494.41	8,507.79	8,488.27	19.52	435.914	
4,500.00	4,497.01	4,492.94	4,437.20	12.68	14.23	127.399	8,051.10	2,501.38	8,511.16	8,491.30	19.85	428.675	
4,600.00	4,596.90	20,591.00	12,510.56	13.00	122.67	-160.992	-138.07	2,845.14	8,454.83	8,371.88	82.96	101.917	
4,700.00	4,696.80	20,591.00	12,510.56	13.31	122.67	-160.992	-138.07	2,845.14	8,362.91	8,279.62	83.29	100.409	
4,800.00	4,796.70	20,591.00	12,510.56	13.62	122.67	-160.992	-138.07	2,845.14	8,271.17	8,187.55	83.63	98.904	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 404H - OH / 67732 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 174-MWD+HRGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,900.00	4,896.59	20,591.00	12,510.56	13.94	122.67	-160.992	-138.07	2,845.14	8,179.63	8,095.65	83.98	97.403	
5,000.00	4,996.49	20,591.00	12,510.56	14.25	122.67	-160.992	-138.07	2,845.14	8,088.29	8,003.95	84.34	95.906	
5,100.00	5,096.39	20,591.00	12,510.56	14.57	122.67	-160.992	-138.07	2,845.14	7,997.15	7,912.45	84.70	94.412	
5,200.00	5,196.29	20,591.00	12,510.56	14.89	122.67	-160.992	-138.07	2,845.14	7,906.23	7,821.15	85.08	92.923	
5,300.00	5,296.18	20,590.27	12,510.58	15.20	122.66	-161.004	-137.34	2,845.12	7,815.53	7,730.07	85.47	91.445	
5,400.00	5,396.08	20,589.35	12,510.60	15.52	122.65	-161.020	-136.42	2,845.09	7,725.06	7,639.20	85.86	89.973	
5,500.00	5,495.98	20,588.42	12,510.62	15.84	122.64	-161.036	-135.50	2,845.06	7,634.83	7,548.57	86.26	88.506	
5,600.00	5,595.87	20,587.50	12,510.64	16.16	122.62	-161.052	-134.58	2,845.04	7,544.84	7,458.16	86.68	87.043	
5,700.00	5,695.77	20,586.58	12,510.66	16.48	122.61	-161.068	-133.65	2,845.01	7,455.11	7,368.01	87.11	85.585	
5,800.00	5,795.67	20,585.66	12,510.68	16.80	122.60	-161.084	-132.73	2,844.98	7,365.65	7,278.10	87.55	84.133	
5,900.00	5,895.57	20,584.73	12,510.71	17.12	122.59	-161.100	-131.81	2,844.96	7,276.45	7,188.45	88.00	82.687	
6,000.00	5,995.46	20,583.81	12,510.73	17.44	122.57	-161.116	-130.89	2,844.93	7,187.55	7,099.08	88.47	81.246	
6,100.00	6,095.36	20,582.89	12,510.75	17.76	122.56	-161.132	-129.97	2,844.91	7,098.93	7,009.99	88.95	79.811	
6,200.00	6,195.26	20,581.96	12,510.77	18.09	122.55	-161.148	-129.04	2,844.88	7,010.63	6,921.18	89.44	78.383	
6,300.00	6,295.16	20,581.04	12,510.79	18.41	122.53	-161.164	-128.12	2,844.85	6,922.64	6,832.69	89.95	76.961	
6,400.00	6,395.05	20,580.12	12,510.81	18.73	122.52	-161.180	-127.20	2,844.83	6,834.98	6,744.50	90.47	75.547	
6,500.00	6,494.95	20,579.20	12,510.83	19.06	122.51	-161.196	-126.28	2,844.80	6,747.66	6,656.65	91.01	74.139	
6,600.00	6,594.85	20,578.27	12,510.85	19.38	122.50	-161.212	-125.35	2,844.77	6,660.70	6,569.13	91.57	72.740	
6,700.00	6,694.74	20,577.35	12,510.88	19.70	122.48	-161.228	-124.43	2,844.75	6,574.12	6,481.97	92.14	71.348	
6,800.00	6,794.64	20,576.43	12,510.90	20.03	122.47	-161.244	-123.51	2,844.72	6,487.91	6,395.18	92.73	69.964	
6,900.00	6,894.54	20,575.50	12,510.92	20.35	122.46	-161.260	-122.59	2,844.69	6,402.11	6,308.77	93.34	68.588	
7,000.00	6,994.44	20,574.58	12,510.94	20.68	122.45	-161.276	-121.67	2,844.67	6,316.73	6,222.76	93.97	67.222	
7,100.00	7,094.33	20,573.66	12,510.96	21.00	122.43	-161.292	-120.74	2,844.64	6,231.78	6,137.16	94.61	65.865	
7,200.00	7,194.23	20,572.74	12,510.98	21.33	122.42	-161.308	-119.82	2,844.62	6,147.28	6,052.00	95.28	64.517	
7,300.00	7,294.13	20,571.81	12,511.00	21.65	122.41	-161.324	-118.90	2,844.59	6,063.26	5,967.29	95.97	63.180	
7,400.00	7,394.02	20,570.89	12,511.03	21.98	122.39	-161.340	-117.98	2,844.56	5,979.72	5,883.05	96.68	61.852	
7,500.00	7,493.92	20,569.97	12,511.05	22.30	122.38	-161.356	-117.05	2,844.54	5,896.70	5,799.29	97.41	60.536	
7,600.00	7,593.82	20,569.04	12,511.07	22.63	122.37	-161.372	-116.13	2,844.51	5,814.22	5,716.05	98.16	59.231	
7,700.00	7,693.72	20,568.12	12,511.09	22.95	122.36	-161.388	-115.21	2,844.48	5,732.29	5,633.35	98.94	57.937	
7,800.00	7,793.61	20,567.20	12,511.11	23.28	122.34	-161.404	-114.29	2,844.46	5,650.94	5,551.20	99.74	56.656	
7,900.00	7,893.51	20,566.28	12,511.13	23.61	122.33	-161.420	-113.37	2,844.43	5,570.20	5,469.63	100.57	55.387	
8,000.00	7,993.41	20,565.35	12,511.15	23.93	122.32	-161.436	-112.44	2,844.40	5,490.09	5,388.67	101.42	54.132	
8,100.00	8,093.31	20,564.43	12,511.17	24.26	122.31	-161.451	-111.52	2,844.38	5,410.65	5,308.35	102.30	52.890	
8,200.00	8,193.20	20,563.51	12,511.20	24.59	122.29	-161.467	-110.60	2,844.35	5,331.89	5,228.69	103.21	51.662	
8,300.00	8,293.10	20,562.58	12,511.22	24.92	122.28	-161.483	-109.68	2,844.32	5,253.86	5,149.72	104.14	50.448	
8,400.00	8,393.00	20,561.66	12,511.24	25.24	122.27	-161.499	-108.76	2,844.30	5,176.59	5,071.48	105.11	49.250	
8,500.00	8,492.89	20,560.74	12,511.26	25.57	122.25	-161.515	-107.83	2,844.27	5,100.10	4,994.00	106.10	48.068	
8,600.00	8,592.79	20,559.82	12,511.28	25.90	122.24	-161.531	-106.91	2,844.25	5,024.45	4,917.32	107.13	46.903	
8,700.00	8,692.69	20,558.89	12,511.30	26.23	122.23	-161.547	-105.99	2,844.22	4,949.65	4,841.47	108.18	45.754	
8,800.00	8,792.59	20,557.97	12,511.32	26.55	122.22	-161.563	-105.07	2,844.19	4,875.76	4,766.49	109.27	44.623	
8,900.00	8,892.48	20,557.05	12,511.35	26.88	122.20	-161.579	-104.14	2,844.17	4,802.81	4,692.43	110.38	43.510	
9,000.00	8,992.38	20,556.12	12,511.37	27.21	122.19	-161.595	-103.22	2,844.14	4,730.86	4,619.32	111.53	42.416	
9,100.00	9,092.28	20,555.20	12,511.39	27.54	122.18	-161.611	-102.30	2,844.11	4,659.93	4,547.22	112.72	41.342	
9,200.00	9,192.17	20,554.28	12,511.41	27.87	122.16	-161.627	-101.38	2,844.09	4,590.09	4,476.16	113.93	40.288	
9,300.00	9,292.07	20,553.36	12,511.43	28.19	122.15	-161.643	-100.46	2,844.06	4,521.39	4,406.20	115.18	39.254	
9,400.00	9,391.97	20,552.43	12,511.45	28.52	122.14	-161.659	-99.53	2,844.03	4,453.86	4,337.40	116.46	38.243	
9,500.00	9,491.87	20,551.51	12,511.47	28.85	122.13	-161.675	-98.61	2,844.01	4,387.58	4,269.81	117.78	37.254	
9,600.00	9,591.76	20,550.59	12,511.49	29.18	122.11	-161.691	-97.69	2,843.98	4,322.60	4,203.48	119.12	36.287	
9,700.00	9,691.66	20,549.66	12,511.52	29.51	122.10	-161.707	-96.77	2,843.96	4,258.97	4,138.47	120.50	35.345	
9,800.00	9,791.56	20,548.74	12,511.54	29.84	122.09	-161.723	-95.84	2,843.93	4,196.76	4,074.86	121.90	34.427	
9,900.00	9,891.45	20,547.81	12,510.56	30.17	122.07	-160.992	-138.07	2,845.14	4,136.26	4,012.50	123.75	33.423	
10,000.00	9,991.35	20,546.89	12,510.56	30.50	122.06	-160.992	-138.07	2,845.14	4,077.09	3,951.86	125.23	32.558	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 404H - OH / 67732 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 174-MWD+HRGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Offset												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,100.00	10,091.25	20,575.43	12,511.22	30.83	122.46	-161.261	-122.52	2,844.64	4,019.54	3,892.96	126.57	31.757	
10,200.00	10,191.15	20,555.79	12,511.88	31.15	122.19	-161.601	-102.91	2,844.05	3,963.66	3,835.76	127.90	30.990	
10,300.00	10,291.04	20,547.09	12,512.12	31.48	122.07	-161.752	-94.21	2,843.80	3,909.53	3,780.18	129.36	30.223	
10,400.00	10,390.94	20,542.17	12,512.23	31.81	122.00	-161.837	-89.29	2,843.65	3,857.24	3,726.37	130.87	29.475	
10,500.00	10,490.84	20,539.01	12,512.30	32.14	121.95	-161.891	-86.14	2,843.56	3,806.86	3,674.45	132.41	28.751	
10,600.00	10,590.74	20,536.81	12,512.35	32.47	121.92	-161.929	-83.94	2,843.50	3,758.46	3,624.48	133.97	28.054	
10,700.00	10,690.63	20,535.19	12,512.38	32.80	121.90	-161.957	-82.32	2,843.46	3,712.12	3,576.57	135.55	27.386	
10,800.00	10,790.53	20,533.95	12,512.40	33.13	121.88	-161.979	-81.08	2,843.42	3,667.92	3,530.80	137.13	26.748	
10,900.00	10,890.43	20,532.97	12,512.42	33.46	121.87	-161.996	-80.10	2,843.40	3,625.95	3,487.24	138.71	26.141	
11,000.00	10,990.32	20,532.17	12,512.43	33.79	121.86	-162.010	-79.30	2,843.37	3,586.27	3,445.99	140.28	25.565	
11,100.00	11,090.22	20,531.51	12,512.45	34.12	121.85	-162.021	-78.64	2,843.35	3,548.97	3,407.12	141.84	25.020	
11,200.00	11,190.12	20,530.95	12,512.46	34.45	121.84	-162.031	-78.08	2,843.34	3,514.11	3,370.72	143.39	24.508	
11,300.00	11,290.02	20,530.48	12,512.46	34.78	121.84	-162.039	-77.61	2,843.33	3,481.78	3,336.88	144.91	24.028	
11,400.00	11,389.91	20,530.07	12,512.47	35.11	121.83	-162.046	-77.20	2,843.32	3,452.05	3,305.66	146.39	23.580	
11,444.32	11,434.18	20,529.91	12,512.47	35.25	121.83	-162.049	-77.04	2,843.31	3,439.72	3,292.68	147.04	23.394	
11,500.00	11,489.83	20,529.50	12,512.48	35.42	121.82	-161.958	-76.63	2,843.30	3,424.48	3,276.66	147.82	23.166	
11,574.22	11,564.04	20,528.34	12,512.50	35.53	121.81	88.690	-75.47	2,843.27	3,403.94	3,255.21	148.73	22.887	
11,600.00	11,589.82	20,527.83	12,512.51	35.53	121.80	88.681	-74.96	2,843.25	3,396.84	3,247.84	149.00	22.797	
11,700.00	11,689.82	20,526.01	12,512.53	35.54	121.77	88.649	-73.15	2,843.20	3,371.05	3,221.02	150.04	22.468	
11,800.00	11,789.82	20,524.39	12,512.56	35.56	121.75	88.621	-71.52	2,843.16	3,348.05	3,197.04	151.02	22.170	
11,900.00	11,889.82	20,522.93	12,512.58	35.58	121.73	88.595	-70.06	2,843.12	3,327.90	3,175.97	151.93	21.904	
12,000.00	11,989.82	20,521.61	12,512.59	35.60	121.71	88.572	-68.74	2,843.08	3,310.64	3,157.86	152.78	21.669	
12,074.22	12,064.04	20,520.71	12,512.61	35.61	121.70	88.556	-67.84	2,843.06	3,299.74	3,146.37	153.36	21.516	
12,100.00	12,089.81	20,520.96	12,512.60	35.62	121.70	-91.210	-68.10	2,843.07	3,296.34	3,142.78	153.56	21.466	
12,150.00	12,139.60	20,524.52	12,512.56	35.69	121.75	-91.746	-71.66	2,843.16	3,290.39	3,136.41	153.99	21.368	
12,200.00	12,188.82	20,531.88	12,512.44	35.77	121.85	-92.129	-79.01	2,843.37	3,285.32	3,130.87	154.45	21.272	
12,250.00	12,237.08	20,542.73	12,512.22	35.86	122.00	-92.365	-89.86	2,843.67	3,281.13	3,126.19	154.94	21.177	
12,300.00	12,284.02	20,556.82	12,511.85	35.96	122.20	-92.463	-103.93	2,844.08	3,277.82	3,122.37	155.46	21.085	
12,350.00	12,329.30	20,573.85	12,511.28	36.06	122.44	-92.433	-120.95	2,844.60	3,275.38	3,119.38	156.00	20.996	
12,400.00	12,372.55	20,599.62	12,510.19	36.17	122.79	-92.198	-146.67	2,845.41	3,273.75	3,117.13	156.62	20.902	
12,450.00	12,413.46	20,681.45	12,508.84	36.28	123.92	-91.129	-228.47	2,847.15	3,272.61	3,114.82	157.80	20.739	
12,500.00	12,451.70	20,806.89	12,512.77	36.40	125.66	-89.624	-353.83	2,846.49	3,270.98	3,111.70	159.28	20.536	
12,550.00	12,487.00	20,843.85	12,514.46	36.51	126.17	-89.330	-390.75	2,845.86	3,269.57	3,109.59	159.98	20.437	
12,600.00	12,519.08	20,883.60	12,516.29	36.63	126.73	-89.023	-430.45	2,845.19	3,268.43	3,107.71	160.72	20.336	
12,650.00	12,547.69	20,925.84	12,518.23	36.75	127.31	-88.724	-472.64	2,844.48	3,267.46	3,105.98	161.48	20.234	
12,700.00	12,572.62	20,964.00	12,519.98	36.86	127.84	-88.501	-510.75	2,843.83	3,266.58	3,104.37	162.22	20.137	
12,750.00	12,593.68	20,964.00	12,519.98	36.99	127.84	-88.545	-510.75	2,843.83	3,266.14	3,103.50	162.64	20.082	
12,759.00	12,597.05	20,964.00	12,519.98	37.01	127.84	-88.546	-510.75	2,843.83	3,266.13	3,103.41	162.72	20.072 CC	
12,800.00	12,610.72	20,964.00	12,519.98	37.11	127.84	-88.524	-510.75	2,843.83	3,266.35	3,103.30	163.04	20.033 ES	
12,850.00	12,623.59	20,964.00	12,519.98	37.23	127.84	-88.438	-510.75	2,843.83	3,267.21	3,103.79	163.42	19.992	
12,900.00	12,632.20	20,964.00	12,519.98	37.36	127.84	-88.288	-510.75	2,843.83	3,268.72	3,104.95	163.77	19.959	
12,950.00	12,636.49	20,964.00	12,519.98	37.49	127.84	-88.073	-510.75	2,843.83	3,270.86	3,106.77	164.09	19.934	
12,974.22	12,637.00	20,964.00	12,519.98	37.55	127.84	-87.947	-510.75	2,843.83	3,272.12	3,107.89	164.23	19.924	
13,000.00	12,637.00	20,964.00	12,519.98	37.62	127.84	-87.947	-510.75	2,843.83	3,273.64	3,109.27	164.37	19.916	
13,100.00	12,637.00	20,964.00	12,519.98	37.92	127.84	-87.947	-510.75	2,843.83	3,281.43	3,116.58	164.85	19.905 SF	
13,200.00	12,637.00	20,964.00	12,519.98	38.28	127.84	-87.947	-510.75	2,843.83	3,292.25	3,127.02	165.23	19.925	
13,300.00	12,637.00	20,964.00	12,519.98	38.69	127.84	-87.947	-510.75	2,843.83	3,306.06	3,140.55	165.51	19.975	
13,400.00	12,637.00	20,964.00	12,519.98	39.15	127.84	-87.947	-510.75	2,843.83	3,322.82	3,157.15	165.67	20.057	
13,500.00	12,637.00	20,964.00	12,519.98	39.66	127.84	-87.947	-510.75	2,843.83	3,342.49	3,176.77	165.72	20.169	
13,600.00	12,637.00	20,964.00	12,519.98	40.23	127.84	-87.947	-510.75	2,843.83	3,365.02	3,199.35	165.67	20.311	
13,700.00	12,637.00	20,964.00	12,519.98	40.84	127.84	-87.947	-510.75	2,843.83	3,390.35	3,224.84	165.52	20.483	
13,800.00	12,637.00	20,964.00	12,519.98	41.49	127.84	-87.947	-510.75	2,843.83	3,418.42	3,253.16	165.27	20.684	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 404H - OH / 67732 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 174-MWD+HRGM												Offset Well Error:	1.00 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,900.00	12,637.00	20,964.00	12,519.98	42.20	127.84	-87.947	-510.75	2,843.83	3,449.16	3,284.24	164.92	20.914	
14,000.00	12,637.00	20,964.00	12,519.98	42.94	127.84	-87.947	-510.75	2,843.83	3,482.51	3,318.02	164.49	21.172	
14,100.00	12,637.00	20,964.00	12,519.98	43.73	127.84	-87.947	-510.75	2,843.83	3,518.37	3,354.41	163.97	21.458	
14,200.00	12,637.00	20,964.00	12,519.98	44.55	127.84	-87.947	-510.75	2,843.83	3,556.69	3,393.32	163.37	21.770	
14,300.00	12,637.00	20,964.00	12,519.98	45.41	127.84	-87.947	-510.75	2,843.83	3,597.39	3,434.68	162.71	22.110	
14,400.00	12,637.00	20,964.00	12,519.98	46.30	127.84	-87.947	-510.75	2,843.83	3,640.37	3,478.40	161.97	22.475	
14,500.00	12,637.00	20,964.00	12,519.98	47.23	127.84	-87.947	-510.75	2,843.83	3,685.57	3,524.39	161.18	22.866	
14,600.00	12,637.00	20,964.00	12,519.98	48.18	127.84	-87.947	-510.75	2,843.83	3,732.90	3,572.56	160.34	23.281	
14,700.00	12,637.00	20,964.00	12,519.98	49.16	127.84	-87.947	-510.75	2,843.83	3,782.28	3,622.83	159.45	23.721	
14,800.00	12,637.00	20,964.00	12,519.98	50.17	127.84	-87.947	-510.75	2,843.83	3,833.64	3,675.12	158.52	24.184	
14,900.00	12,637.00	20,964.00	12,519.98	51.19	127.84	-87.947	-510.75	2,843.83	3,886.89	3,729.34	157.55	24.671	
15,000.00	12,637.00	20,964.00	12,519.98	52.25	127.84	-87.947	-510.75	2,843.83	3,941.95	3,785.40	156.55	25.180	
15,100.00	12,637.00	20,964.00	12,519.98	53.32	127.84	-87.947	-510.75	2,843.83	3,998.76	3,843.23	155.53	25.710	
15,200.00	12,637.00	20,964.00	12,519.98	54.41	127.84	-87.947	-510.75	2,843.83	4,057.24	3,902.76	154.49	26.263	
15,300.00	12,637.00	20,964.00	12,519.98	55.51	127.84	-87.947	-510.75	2,843.83	4,117.32	3,963.90	153.43	26.836	
15,400.00	12,637.00	20,964.00	12,519.98	56.64	127.84	-87.947	-510.75	2,843.83	4,178.93	4,026.58	152.36	27.429	
15,500.00	12,637.00	20,964.00	12,519.98	57.78	127.84	-87.947	-510.75	2,843.83	4,242.00	4,090.73	151.27	28.042	
15,600.00	12,637.00	20,964.00	12,519.98	58.93	127.84	-87.947	-510.75	2,843.83	4,306.47	4,156.28	150.19	28.674	
15,700.00	12,637.00	20,964.00	12,519.98	60.10	127.84	-87.947	-510.75	2,843.83	4,372.28	4,223.18	149.10	29.324	
15,800.00	12,637.00	20,964.00	12,519.98	61.28	127.84	-87.947	-510.75	2,843.83	4,439.36	4,291.35	148.01	29.993	
15,900.00	12,637.00	20,964.00	12,519.98	62.47	127.84	-87.947	-510.75	2,843.83	4,507.67	4,360.74	146.93	30.679	
16,000.00	12,637.00	20,964.00	12,519.98	63.67	127.84	-87.947	-510.75	2,843.83	4,577.13	4,431.29	145.85	31.383	
16,100.00	12,637.00	20,964.00	12,519.98	64.88	127.84	-87.947	-510.75	2,843.83	4,647.72	4,502.94	144.78	32.103	
16,200.00	12,637.00	20,964.00	12,519.98	66.11	127.84	-87.947	-510.75	2,843.83	4,719.36	4,575.65	143.71	32.839	
16,300.00	12,637.00	20,964.00	12,519.98	67.34	127.84	-87.947	-510.75	2,843.83	4,792.03	4,649.36	142.66	33.590	
16,400.00	12,637.00	20,964.00	12,519.98	68.58	127.84	-87.947	-510.75	2,843.83	4,865.66	4,724.04	141.62	34.357	
16,500.00	12,637.00	20,964.00	12,519.98	69.82	127.84	-87.947	-510.75	2,843.83	4,940.22	4,799.62	140.59	35.138	
16,600.00	12,637.00	20,964.00	12,519.98	71.08	127.84	-87.947	-510.75	2,843.83	5,015.66	4,876.08	139.58	35.934	
16,700.00	12,637.00	20,964.00	12,519.98	72.34	127.84	-87.947	-510.75	2,843.83	5,091.95	4,953.37	138.58	36.743	
16,800.00	12,637.00	20,964.00	12,519.98	73.61	127.84	-87.947	-510.75	2,843.83	5,169.05	5,031.45	137.60	37.565	
16,900.00	12,637.00	20,964.00	12,519.98	74.88	127.84	-87.947	-510.75	2,843.83	5,246.92	5,110.29	136.64	38.401	
17,000.00	12,637.00	20,964.00	12,519.98	76.16	127.84	-87.947	-510.75	2,843.83	5,325.53	5,189.85	135.69	39.249	
17,100.00	12,637.00	20,964.00	12,519.98	77.45	127.84	-87.947	-510.75	2,843.83	5,404.85	5,270.10	134.76	40.109	
17,200.00	12,637.00	20,964.00	12,519.98	78.74	127.84	-87.947	-510.75	2,843.83	5,484.85	5,351.01	133.84	40.980	
17,300.00	12,637.00	20,964.00	12,519.98	80.04	127.84	-87.947	-510.75	2,843.83	5,565.49	5,432.54	132.94	41.863	
17,400.00	12,637.00	20,964.00	12,519.98	81.34	127.84	-87.947	-510.75	2,843.83	5,646.75	5,514.68	132.07	42.757	
17,500.00	12,637.00	20,964.00	12,519.98	82.65	127.84	-87.947	-510.75	2,843.83	5,728.60	5,597.40	131.20	43.662	
17,600.00	12,637.00	20,964.00	12,519.98	83.96	127.84	-87.947	-510.75	2,843.83	5,811.02	5,680.66	130.36	44.576	
17,700.00	12,637.00	20,964.00	12,519.98	85.27	127.84	-87.947	-510.75	2,843.83	5,893.99	5,764.45	129.54	45.500	
17,800.00	12,637.00	20,964.00	12,519.98	86.59	127.84	-87.947	-510.75	2,843.83	5,977.48	5,848.75	128.73	46.434	
17,900.00	12,637.00	20,964.00	12,519.98	87.91	127.84	-87.947	-510.75	2,843.83	6,061.47	5,933.52	127.94	47.377	
18,000.00	12,637.00	20,964.00	12,519.98	89.24	127.84	-87.947	-510.75	2,843.83	6,145.93	6,018.76	127.17	48.329	
18,100.00	12,637.00	20,964.00	12,519.98	90.57	127.84	-87.947	-510.75	2,843.83	6,230.86	6,104.44	126.41	49.289	
18,200.00	12,637.00	20,964.00	12,519.98	91.90	127.84	-87.947	-510.75	2,843.83	6,316.23	6,190.55	125.68	50.258	
18,300.00	12,637.00	20,964.00	12,519.98	93.24	127.84	-87.947	-510.75	2,843.83	6,402.02	6,277.06	124.96	51.234	
18,400.00	12,637.00	20,964.00	12,519.98	94.58	127.84	-87.947	-510.75	2,843.83	6,488.22	6,363.96	124.25	52.218	
18,500.00	12,637.00	20,964.00	12,519.98	95.92	127.84	-87.947	-510.75	2,843.83	6,574.80	6,451.24	123.57	53.209	
18,600.00	12,637.00	20,964.00	12,519.98	97.26	127.84	-87.947	-510.75	2,843.83	6,661.77	6,538.87	122.90	54.206	
18,700.00	12,637.00	20,964.00	12,519.98	98.61	127.84	-87.947	-510.75	2,843.83	6,749.10	6,626.85	122.24	55.211	
18,800.00	12,637.00	20,964.00	12,519.98	99.96	127.84	-87.947	-510.75	2,843.83	6,836.77	6,715.17	121.60	56.222	
18,900.00	12,637.00	20,964.00	12,519.98	101.31	127.84	-87.947	-510.75	2,843.83	6,924.78	6,803.80	120.98	57.239	
19,000.00	12,637.00	20,964.00	12,519.98	102.67	127.84	-87.947	-510.75	2,843.83	7,013.10	6,892.73	120.37	58.262	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 404H - OH / 67732 - Surveys (H&P 474)													Offset Site Error:	0.00 usft
Survey Program:		174-MWD+HRGM					Rule Assigned:				Offset Well Error:	1.00 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,100.00	12,637.00	20,964.00	12,519.98	104.02	127.84	-87.947	-510.75	2,843.83	7,101.74	6,981.96	119.78	59.291		
19,200.00	12,637.00	20,964.00	12,519.98	105.38	127.84	-87.947	-510.75	2,843.83	7,190.68	7,071.48	119.20	60.324		
19,300.00	12,637.00	20,964.00	12,519.98	106.74	127.84	-87.947	-510.75	2,843.83	7,279.90	7,161.27	118.64	61.363		
19,400.00	12,637.00	20,964.00	12,519.98	108.11	127.84	-87.947	-510.75	2,843.83	7,369.40	7,251.32	118.09	62.407		
19,500.00	12,637.00	20,964.00	12,519.98	109.47	127.84	-87.947	-510.75	2,843.83	7,459.17	7,341.62	117.55	63.456		
19,600.00	12,637.00	20,964.00	12,519.98	110.84	127.84	-87.947	-510.75	2,843.83	7,549.19	7,432.17	117.03	64.509		
19,700.00	12,637.00	20,964.00	12,519.98	112.20	127.84	-87.947	-510.75	2,843.83	7,639.47	7,522.95	116.52	65.566		
19,800.00	12,637.00	20,964.00	12,519.98	113.57	127.84	-87.947	-510.75	2,843.83	7,729.98	7,613.96	116.02	66.627		
19,900.00	12,637.00	20,964.00	12,519.98	114.95	127.84	-87.947	-510.75	2,843.83	7,820.72	7,705.19	115.54	67.691		
20,000.00	12,637.00	20,964.00	12,519.98	116.32	127.84	-87.947	-510.75	2,843.83	7,911.69	7,796.62	115.06	68.759		
20,100.00	12,637.00	20,964.00	12,519.98	117.69	127.84	-87.947	-510.75	2,843.83	8,002.87	7,888.27	114.60	69.831		
20,200.00	12,637.00	20,964.00	12,519.98	119.07	127.84	-87.947	-510.75	2,843.83	8,094.26	7,980.10	114.16	70.906		
20,300.00	12,637.00	20,964.00	12,519.98	120.45	127.84	-87.947	-510.75	2,843.83	8,185.85	8,072.13	113.72	71.983		
20,400.00	12,637.00	20,964.00	12,519.98	121.83	127.84	-87.947	-510.75	2,843.83	8,277.64	8,164.34	113.29	73.064		
20,500.00	12,637.00	20,964.00	12,519.98	123.21	127.84	-87.947	-510.75	2,843.83	8,369.61	8,256.73	112.88	74.147		
20,600.00	12,637.00	20,964.00	12,519.98	124.59	127.84	-87.947	-510.75	2,843.83	8,461.77	8,349.29	112.48	75.232		
20,700.00	12,637.00	20,964.00	12,519.98	125.97	127.84	-87.947	-510.75	2,843.83	8,554.10	8,442.02	112.08	76.319		
20,800.00	12,637.00	20,964.00	12,519.98	127.35	127.84	-87.947	-510.75	2,843.83	8,646.60	8,534.90	111.70	77.409		
20,900.00	12,637.00	20,964.00	12,519.98	128.74	127.84	-87.947	-510.75	2,843.83	8,739.27	8,627.94	111.33	78.500		
21,000.00	12,637.00	20,964.00	12,519.98	130.12	127.84	-87.947	-510.75	2,843.83	8,832.10	8,721.13	110.97	79.593		
21,100.00	12,637.00	20,964.00	12,519.98	131.51	127.84	-87.947	-510.75	2,843.83	8,925.08	8,814.47	110.61	80.688		
21,200.00	12,637.00	20,964.00	12,519.98	132.90	127.84	-87.947	-510.75	2,843.83	9,018.21	8,907.94	110.27	81.784		
21,300.00	12,637.00	20,964.00	12,519.98	134.29	127.84	-87.947	-510.75	2,843.83	9,111.49	9,001.56	109.93	82.881		
21,400.00	12,637.00	20,964.00	12,519.98	135.68	127.84	-87.947	-510.75	2,843.83	9,204.91	9,095.30	109.61	83.979		
21,500.00	12,637.00	20,964.00	12,519.98	137.07	127.84	-87.947	-510.75	2,843.83	9,298.47	9,189.18	109.29	85.078		
21,600.00	12,637.00	20,964.00	12,519.98	138.46	127.84	-87.947	-510.75	2,843.83	9,392.16	9,283.17	108.99	86.178		
21,700.00	12,637.00	20,964.00	12,519.98	139.85	127.84	-87.947	-510.75	2,843.83	9,485.98	9,377.29	108.69	87.279		
21,800.00	12,637.00	20,964.00	12,519.98	141.25	127.84	-87.947	-510.75	2,843.83	9,579.92	9,471.53	108.39	88.380		
21,900.00	12,637.00	20,964.00	12,519.98	142.64	127.84	-87.947	-510.75	2,843.83	9,673.99	9,565.87	108.11	89.482		
22,000.00	12,637.00	20,964.00	12,519.98	144.04	127.84	-87.947	-510.75	2,843.83	9,768.17	9,660.33	107.84	90.583		
22,100.00	12,637.00	20,964.00	12,519.98	145.43	127.84	-87.947	-510.75	2,843.83	9,862.47	9,754.90	107.57	91.685		
22,200.00	12,637.00	20,964.00	12,519.98	146.83	127.84	-87.947	-510.75	2,843.83	9,956.87	9,849.56	107.31	92.787		
22,300.00	12,637.00	20,964.00	12,519.98	148.23	127.84	-87.947	-510.75	2,843.83	10,051.39	9,944.33	107.06	93.889		
22,400.00	12,637.00	20,964.00	12,519.98	149.63	127.84	-87.947	-510.75	2,843.83	10,146.01	10,039.20	106.81	94.991		
22,500.00	12,637.00	20,964.00	12,519.98	151.02	127.84	-87.947	-510.75	2,843.83	10,240.74	10,134.16	106.57	96.092		
22,600.00	12,637.00	20,964.00	12,519.98	152.42	127.84	-87.947	-510.75	2,843.83	10,335.56	10,229.22	106.34	97.193		
22,700.00	12,637.00	20,964.00	12,519.98	153.83	127.84	-87.947	-510.75	2,843.83	10,430.48	10,324.36	106.12	98.293		
22,800.00	12,637.00	20,964.00	12,519.98	155.23	127.84	-87.947	-510.75	2,843.83	10,525.49	10,419.60	105.90	99.392		
22,900.00	12,637.00	20,964.00	12,519.98	156.63	127.84	-87.947	-510.75	2,843.83	10,620.60	10,514.91	105.69	100.491		
23,000.00	12,637.00	20,964.00	12,519.98	158.03	127.84	-87.947	-510.75	2,843.83	10,715.79	10,610.31	105.48	101.589		
23,100.00	12,637.00	20,964.00	12,519.98	159.43	127.84	-87.947	-510.75	2,843.83	10,811.08	10,705.79	105.28	102.686		
23,124.22	12,637.00	20,964.00	12,519.98	159.77	127.84	-87.947	-510.75	2,843.83	10,834.17	10,728.93	105.24	102.952		

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 434H - OH / 67733 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 174-MWD+HRGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Offset												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	104.94	60.94	1.00	1.18	15.085	8,052.85	2,170.63	8,340.49				
100.00	100.00	216.94	172.90	1.08	1.68	15.068	8,052.44	2,167.87	8,339.47	8,336.71	2.76	3,020.037	
200.00	200.00	297.00	252.95	1.60	2.22	15.064	8,052.17	2,167.16	8,338.87	8,335.08	3.79	2,200.321	
300.00	300.00	360.71	316.66	2.01	2.60	15.065	8,051.97	2,167.36	8,338.58	8,334.06	4.52	1,844.241	
400.00	400.00	448.85	404.80	2.35	3.04	15.069	8,051.68	2,167.90	8,338.43	8,333.20	5.23	1,594.706	
421.70	421.70	465.76	421.71	2.42	3.08	15.070	8,051.65	2,168.00	8,338.42	8,333.09	5.33	1,563.641	
500.00	500.00	535.83	491.78	2.65	3.23	15.072	8,051.62	2,168.34	8,338.49	8,332.77	5.72	1,456.678	
600.00	600.00	637.82	593.77	2.93	3.44	15.076	8,051.52	2,168.80	8,338.51	8,332.31	6.20	1,344.897	
700.00	700.00	722.13	678.08	3.18	3.60	15.079	8,051.55	2,169.35	8,338.71	8,332.10	6.61	1,261.282	
800.00	800.00	811.45	767.39	3.41	3.77	15.084	8,051.61	2,170.08	8,338.99	8,331.99	7.01	1,190.117	
900.00	900.00	888.59	844.53	3.64	3.90	15.088	8,051.90	2,170.70	8,339.55	8,332.19	7.36	1,133.073	
1,000.00	1,000.00	1,002.42	958.36	3.85	4.09	15.091	8,052.39	2,171.40	8,340.13	8,332.36	7.76	1,074.126	
1,100.00	1,100.00	1,127.09	1,083.03	4.05	4.29	15.095	8,052.72	2,171.99	8,340.52	8,332.34	8.18	1,020.121	
1,200.00	1,200.00	1,242.08	1,198.01	4.24	4.45	15.096	8,052.74	2,172.26	8,340.58	8,332.06	8.52	978.944	
1,300.00	1,300.00	1,331.76	1,287.70	4.43	4.59	15.097	8,052.77	2,172.42	8,340.67	8,331.82	8.85	942.502	
1,400.00	1,400.00	1,426.50	1,382.43	4.61	4.75	15.099	8,052.88	2,172.70	8,340.85	8,331.67	9.18	908.114	
1,500.00	1,500.00	1,533.92	1,489.85	4.78	4.92	15.100	8,053.02	2,172.87	8,341.02	8,331.48	9.53	874.906	
1,600.00	1,599.98	1,636.35	1,592.28	5.03	5.05	124.557	8,053.11	2,172.91	8,342.11	8,332.27	9.84	848.005	
1,629.90	1,629.86	1,665.84	1,621.77	5.06	5.09	124.551	8,053.14	2,172.90	8,342.81	8,332.92	9.90	842.845	
1,700.00	1,699.88	1,738.18	1,694.11	5.14	5.15	124.569	8,053.23	2,172.84	8,344.68	8,334.62	10.06	829.442	
1,800.00	1,799.78	1,840.17	1,796.10	5.31	5.24	124.594	8,053.34	2,172.62	8,347.30	8,336.97	10.33	807.956	
1,900.00	1,899.68	1,941.50	1,897.43	5.50	5.33	124.619	8,053.41	2,172.51	8,349.92	8,339.31	10.61	786.789	
2,000.00	1,999.58	2,034.48	1,990.41	5.70	5.50	124.646	8,053.33	2,172.96	8,352.55	8,341.62	10.93	764.262	
2,100.00	2,099.47	2,122.95	2,078.85	5.91	5.79	124.684	8,052.88	2,175.22	8,355.31	8,344.04	11.26	741.829	
2,200.00	2,199.37	2,217.03	2,172.82	6.14	6.11	124.739	8,051.96	2,179.65	8,358.19	8,346.61	11.58	721.929	
2,300.00	2,299.27	2,306.50	2,262.15	6.37	6.35	124.797	8,050.93	2,184.62	8,361.13	8,349.27	11.87	704.539	
2,400.00	2,399.16	2,394.66	2,350.16	6.61	6.56	124.854	8,050.04	2,189.60	8,364.25	8,352.09	12.16	687.869	
2,500.00	2,499.06	2,468.89	2,424.26	6.86	6.75	124.902	8,049.38	2,193.83	8,367.53	8,355.09	12.44	672.795	
2,600.00	2,598.96	2,540.00	2,495.26	7.12	6.93	124.947	8,049.20	2,197.87	8,371.34	8,358.63	12.71	658.402	
2,700.00	2,698.86	2,576.00	2,531.20	7.38	7.03	124.969	8,049.32	2,199.91	8,375.64	8,362.69	12.95	646.873	
2,800.00	2,798.75	2,635.00	2,590.10	7.65	7.18	125.006	8,049.77	2,203.28	8,380.50	8,367.29	13.22	634.061	
2,900.00	2,898.65	2,729.00	2,683.92	7.92	7.44	125.066	8,050.65	2,209.02	8,385.66	8,372.11	13.55	618.981	
3,000.00	2,998.55	2,814.84	2,769.57	8.20	7.69	125.124	8,051.37	2,214.82	8,390.91	8,377.04	13.87	605.044	
3,100.00	3,098.44	2,941.50	2,895.97	8.48	8.05	125.207	8,052.47	2,222.78	8,396.07	8,381.81	14.26	588.789	
3,200.00	3,198.34	3,030.43	2,984.76	8.77	8.31	125.259	8,053.38	2,227.61	8,401.15	8,386.56	14.59	575.711	
3,300.00	3,298.24	3,108.00	3,062.21	9.05	8.54	125.305	8,054.27	2,231.94	8,406.42	8,391.51	14.91	563.829	
3,400.00	3,398.14	3,204.00	3,158.04	9.35	8.82	125.364	8,055.53	2,237.49	8,411.89	8,396.63	15.27	551.057	
3,500.00	3,498.03	3,268.06	3,221.98	9.64	9.02	125.403	8,056.52	2,241.28	8,417.62	8,402.05	15.57	540.684	
3,600.00	3,597.93	3,569.82	3,523.27	9.94	10.16	125.583	8,058.30	2,257.84	8,422.37	8,405.94	16.43	512.548	
3,700.00	3,697.83	3,697.56	3,650.97	10.23	10.91	125.632	8,058.52	2,260.39	8,425.73	8,408.64	17.10	492.779	
3,800.00	3,797.72	3,962.00	3,915.39	10.53	11.21	125.708	8,057.84	2,261.81	8,428.81	8,411.33	17.48	482.191	
3,900.00	3,897.62	4,036.07	3,989.45	10.84	11.15	125.723	8,057.04	2,261.01	8,430.14	8,412.47	17.67	476.958	
4,000.00	3,997.52	4,137.50	4,090.87	11.14	11.09	125.745	8,056.20	2,260.17	8,431.77	8,413.89	17.88	471.675	
4,100.00	4,097.42	4,233.31	4,186.67	11.45	11.13	125.765	8,055.34	2,259.35	8,433.32	8,415.14	18.18	463.984	
4,200.00	4,197.31	4,325.73	4,279.09	11.75	11.18	125.786	8,054.52	2,258.83	8,434.96	8,416.46	18.50	456.060	
4,300.00	4,297.21	4,432.89	4,386.25	12.06	11.34	125.813	8,053.49	2,258.53	8,436.61	8,417.73	18.88	446.864	
4,400.00	4,397.11	4,528.00	4,481.35	12.37	11.50	125.838	8,052.42	2,258.44	8,438.16	8,418.88	19.28	437.651	
4,500.00	4,497.01	4,623.00	4,576.34	12.68	11.61	125.867	8,051.31	2,258.88	8,439.83	8,420.28	19.55	431.776	
4,600.00	4,596.90	20,402.00	12,686.73	13.00	115.09	-168.350	201.45	2,213.22	8,425.90	8,343.28	82.62	101.983	
4,700.00	4,696.80	20,402.00	12,686.73	13.31	115.09	-168.350	201.45	2,213.22	8,331.29	8,248.37	82.92	100.474	
4,800.00	4,796.70	20,402.00	12,686.73	13.62	115.09	-168.350	201.45	2,213.22	8,236.80	8,153.57	83.23	98.969	
4,900.00	4,896.59	20,409.15	12,686.85	13.94	115.20	-168.200	194.30	2,213.56	8,142.43	8,058.83	83.60	97.400	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 434H - OH / 67733 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 174-MWD+HRGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Offset												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,996.49	20,411.74	12,686.90	14.25	115.23	-168.145	191.72	2,213.68	8,048.21	7,964.27	83.94	95.880	
5,100.00	5,096.39	20,414.35	12,686.94	14.57	115.27	-168.090	189.12	2,213.80	7,954.12	7,869.83	84.29	94.365	
5,200.00	5,196.29	20,416.98	12,686.99	14.89	115.31	-168.035	186.49	2,213.93	7,860.18	7,775.53	84.65	92.855	
5,300.00	5,296.18	20,419.64	12,687.04	15.20	115.34	-167.979	183.83	2,214.05	7,766.39	7,681.37	85.02	91.350	
5,400.00	5,396.08	20,422.32	12,687.08	15.52	115.38	-167.922	181.15	2,214.17	7,672.75	7,587.36	85.39	89.850	
5,500.00	5,495.98	20,425.03	12,687.13	15.84	115.42	-167.865	178.44	2,214.30	7,579.28	7,493.50	85.78	88.357	
5,600.00	5,595.87	20,427.77	12,687.18	16.16	115.46	-167.808	175.71	2,214.42	7,485.97	7,399.80	86.18	86.869	
5,700.00	5,695.77	20,430.53	12,687.23	16.48	115.50	-167.750	172.95	2,214.55	7,392.84	7,306.26	86.58	85.387	
5,800.00	5,795.67	20,433.32	12,687.28	16.80	115.54	-167.691	170.17	2,214.67	7,299.89	7,212.90	87.00	83.911	
5,900.00	5,895.57	20,436.10	12,687.33	17.12	115.58	-167.633	167.41	2,214.79	7,207.00	7,120.91	87.40	82.423	
6,000.00	5,995.46	20,438.91	12,687.38	17.44	115.62	-167.575	164.65	2,214.91	7,114.36	7,028.42	87.80	80.935	
6,100.00	6,095.36	20,441.74	12,687.43	17.76	115.66	-167.517	161.89	2,215.03	7,021.93	6,936.49	88.20	79.447	
6,200.00	6,195.26	20,444.58	12,687.48	18.08	115.70	-167.459	159.13	2,215.15	6,929.70	6,844.86	88.60	77.959	
6,300.00	6,295.16	20,447.43	12,687.53	18.41	115.74	-167.401	156.37	2,215.27	6,837.69	6,753.23	89.00	76.471	
6,400.00	6,395.05	20,450.29	12,687.58	18.73	115.78	-167.343	153.61	2,215.39	6,745.91	6,661.05	89.40	74.983	
6,500.00	6,494.95	20,453.16	12,687.63	19.06	115.82	-167.285	150.85	2,215.51	6,654.37	6,569.51	89.80	73.495	
6,600.00	6,594.85	20,456.03	12,687.68	19.38	115.86	-167.227	148.09	2,215.63	6,563.07	6,478.21	90.20	72.007	
6,700.00	6,694.74	20,458.91	12,687.73	19.70	115.90	-167.169	145.33	2,215.75	6,472.03	6,387.03	90.60	70.519	
6,800.00	6,794.64	20,461.80	12,687.78	20.03	115.94	-167.111	142.57	2,215.87	6,381.25	6,296.85	91.00	69.031	
6,900.00	6,894.54	20,464.70	12,687.83	20.35	115.98	-167.053	139.81	2,215.99	6,290.76	6,206.67	91.40	67.543	
7,000.00	6,994.44	20,467.61	12,687.88	20.68	116.02	-166.995	137.05	2,216.11	6,200.55	6,116.49	91.80	66.055	
7,100.00	7,094.33	20,470.53	12,687.93	21.00	116.06	-166.937	134.29	2,216.23	6,110.65	6,032.31	92.20	64.567	
7,200.00	7,194.23	20,473.46	12,687.98	21.33	116.10	-166.879	131.53	2,216.35	6,021.07	5,948.13	92.60	63.079	
7,300.00	7,294.13	20,476.40	12,688.03	21.65	116.14	-166.821	128.77	2,216.47	5,931.82	5,867.95	93.00	61.591	
7,400.00	7,394.02	20,479.35	12,688.08	21.98	116.18	-166.763	126.01	2,216.59	5,842.92	5,783.06	93.40	60.103	
7,500.00	7,493.92	20,482.30	12,688.13	22.30	116.22	-166.705	123.25	2,216.71	5,754.38	5,694.47	93.80	58.615	
7,600.00	7,593.82	20,485.26	12,688.18	22.63	116.26	-166.647	120.49	2,216.83	5,666.21	5,606.30	94.20	57.127	
7,700.00	7,693.72	20,488.23	12,688.23	22.95	116.30	-166.589	117.73	2,216.95	5,578.45	5,518.19	94.60	55.639	
7,800.00	7,793.61	20,491.21	12,688.28	23.28	116.34	-166.531	114.97	2,217.07	5,491.10	5,430.83	95.00	54.151	
7,900.00	7,893.51	20,494.20	12,688.33	23.61	116.38	-166.473	112.21	2,217.19	5,404.19	5,343.71	95.40	52.663	
8,000.00	7,993.41	20,497.20	12,688.38	23.93	116.42	-166.415	109.45	2,217.31	5,317.73	5,256.64	95.80	51.175	
8,100.00	8,093.31	20,500.21	12,688.43	24.26	116.46	-166.357	106.69	2,217.43	5,231.76	5,171.57	96.20	49.687	
8,200.00	8,193.20	20,503.23	12,688.48	24.59	116.50	-166.299	103.93	2,217.55	5,146.28	5,086.99	96.60	48.199	
8,300.00	8,293.10	20,506.26	12,688.53	24.92	116.54	-166.241	101.17	2,217.67	5,061.34	4,992.41	97.00	46.711	
8,400.00	8,393.00	20,509.30	12,688.58	25.24	116.58	-166.183	98.41	2,217.79	4,976.95	4,908.42	97.40	45.223	
8,500.00	8,492.89	20,512.35	12,688.63	25.57	116.62	-166.125	95.65	2,217.91	4,893.14	4,824.93	97.80	43.735	
8,600.00	8,592.79	20,515.40	12,688.68	25.90	116.66	-166.067	92.89	2,218.03	4,809.96	4,742.45	98.20	42.247	
8,700.00	8,692.69	20,518.46	12,688.73	26.23	116.70	-166.009	90.13	2,218.15	4,727.42	4,660.52	98.60	40.759	
8,800.00	8,792.59	20,521.53	12,688.78	26.55	116.74	-165.951	87.37	2,218.27	4,645.57	4,578.59	99.00	39.271	
8,900.00	8,892.48	20,524.61	12,688.83	26.88	116.78	-165.893	84.61	2,218.39	4,564.44	4,496.46	99.40	37.783	
9,000.00	8,992.38	20,527.70	12,688.88	27.21	116.82	-165.835	81.85	2,218.51	4,484.07	4,415.99	99.80	36.295	
9,100.00	9,092.28	20,530.80	12,688.93	27.54	116.86	-165.777	79.09	2,218.63	4,404.50	4,336.42	100.20	34.807	
9,200.00	9,192.17	20,533.91	12,688.98	27.87	116.90	-165.719	76.33	2,218.75	4,325.78	4,257.85	100.60	33.319	
9,300.00	9,292.07	20,537.03	12,689.03	28.19	116.94	-165.661	73.57	2,218.87	4,247.96	4,179.27	101.00	31.831	
9,400.00	9,391.97	20,540.16	12,689.08	28.52	116.98	-165.603	70.81	2,218.99	4,171.08	4,101.69	101.40	30.343	
9,500.00	9,491.87	20,543.30	12,689.13	28.85	117.02	-165.545	68.05	2,219.11	4,095.20	4,024.11	101.80	28.855	
9,600.00	9,591.76	20,546.45	12,689.18	29.18	117.06	-165.487	65.29	2,219.23	4,020.37	3,947.54	102.20	27.367	
9,700.00	9,691.66	20,549.61	12,689.23	29.51	117.10	-165.429	62.53	2,219.35	3,946.65	3,870.97	102.60	25.879	
9,800.00	9,791.56	20,552.78	12,689.28	29.84	117.14	-165.371	59.77	2,219.47	3,874.12	3,794.40	103.00	24.391	
9,900.00	9,891.45	20,555.95	12,689.33	30.17	117.18	-165.313	57.01	2,219.59	3,802.83	3,718.83	103.40	22.903	
10,000.00	9,991.35	20,559.13	12,689.38	30.50	117.22	-165.255	54.25	2,219.71	3,732.86	3,643.26	103.80	21.415	
10,100.00	10,091.25	20,562.32	12,689.43	30.83	117.26	-165.197	51.49	2,219.83	3,664.28	3,574.68	104.20	20.927	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 434H - OH / 67733 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 174-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,200.00	10,191.15	20,759.67	12,690.38	31.15	120.19	-160.777	-156.03	2,218.00	3,597.17	3,471.83	125.34	28.699	
10,300.00	10,291.04	20,760.80	12,690.38	31.48	120.20	-160.753	-157.15	2,217.99	3,531.62	3,404.81	126.81	27.850	
10,400.00	10,390.94	20,761.86	12,690.38	31.81	120.22	-160.730	-158.22	2,217.98	3,467.71	3,339.40	128.31	27.026	
10,500.00	10,490.84	20,762.87	12,690.37	32.14	120.23	-160.708	-159.23	2,217.97	3,405.55	3,275.71	129.84	26.230	
10,600.00	10,590.74	20,763.83	12,690.37	32.47	120.25	-160.688	-160.19	2,217.97	3,345.21	3,213.82	131.39	25.460	
10,700.00	10,690.63	20,764.75	12,690.37	32.80	120.26	-160.668	-161.11	2,217.96	3,286.81	3,153.85	132.96	24.720	
10,800.00	10,790.53	20,765.62	12,690.36	33.13	120.27	-160.650	-161.98	2,217.96	3,230.45	3,095.90	134.55	24.009	
10,900.00	10,890.43	20,766.46	12,690.36	33.46	120.28	-160.632	-162.81	2,217.95	3,176.24	3,040.08	136.16	23.328	
11,000.00	10,990.32	20,767.25	12,690.36	33.79	120.30	-160.615	-163.61	2,217.95	3,124.29	2,986.52	137.77	22.678	
11,100.00	11,090.22	20,782.00	12,690.26	34.12	120.51	-160.301	-178.35	2,217.91	3,074.76	2,935.24	139.52	22.038	
11,200.00	11,190.12	20,782.00	12,690.26	34.45	120.51	-160.301	-178.35	2,217.91	3,027.67	2,886.55	141.12	21.454	
11,300.00	11,290.02	20,782.00	12,690.26	34.78	120.51	-160.301	-178.35	2,217.91	2,983.20	2,840.49	142.71	20.905	
11,400.00	11,389.91	20,782.00	12,690.26	35.11	120.51	-160.301	-178.35	2,217.91	2,941.45	2,797.18	144.27	20.389	
11,444.32	11,434.18	20,782.00	12,690.26	35.25	120.51	-160.301	-178.35	2,217.91	2,923.85	2,778.91	144.94	20.172	
11,500.00	11,489.83	20,782.00	12,690.26	35.42	120.51	-160.141	-178.35	2,217.91	2,902.08	2,756.30	145.77	19.908	
11,574.22	11,564.04	20,782.00	12,690.26	35.53	120.51	90.610	-178.35	2,217.91	2,873.01	2,726.25	146.76	19.577	
11,600.00	11,589.82	20,782.00	12,690.26	35.53	120.51	90.610	-178.35	2,217.91	2,863.00	2,715.94	147.06	19.468	
11,700.00	11,689.82	20,782.00	12,690.26	35.54	120.51	90.610	-178.35	2,217.91	2,826.07	2,677.87	148.20	19.070	
11,800.00	11,789.82	20,782.00	12,690.26	35.56	120.51	90.610	-178.35	2,217.91	2,792.24	2,642.96	149.27	18.706	
11,900.00	11,889.82	20,782.00	12,690.26	35.58	120.51	90.610	-178.35	2,217.91	2,761.61	2,611.34	150.27	18.377	
12,000.00	11,989.82	20,782.00	12,690.26	35.60	120.51	90.610	-178.35	2,217.91	2,734.30	2,583.12	151.19	18.086	
12,074.22	12,064.04	20,782.00	12,690.26	35.61	120.51	90.610	-178.35	2,217.91	2,716.24	2,564.44	151.80	17.894	
12,100.00	12,089.81	20,782.00	12,690.26	35.62	120.51	-89.417	-178.35	2,217.91	2,710.40	2,558.40	152.00	17.832	
12,150.00	12,139.60	20,782.00	12,690.26	35.69	120.51	-90.510	-178.35	2,217.91	2,699.72	2,547.33	152.39	17.716	
12,200.00	12,188.82	20,782.00	12,690.26	35.77	120.51	-91.504	-178.35	2,217.91	2,689.97	2,537.20	152.77	17.608	
12,250.00	12,237.08	20,782.00	12,690.26	35.86	120.51	-92.392	-178.35	2,217.91	2,681.22	2,528.09	153.14	17.509	
12,300.00	12,284.02	20,795.80	12,690.14	35.96	120.70	-92.890	-192.15	2,217.92	2,673.52	2,519.88	153.64	17.401	
12,350.00	12,329.30	20,810.65	12,690.01	36.06	120.91	-93.270	-207.00	2,217.97	2,666.85	2,512.70	154.14	17.301	
12,400.00	12,372.55	20,828.28	12,689.86	36.17	121.16	-93.506	-224.63	2,218.07	2,661.21	2,506.54	154.66	17.206	
12,450.00	12,413.46	20,848.55	12,689.69	36.28	121.45	-93.610	-244.91	2,218.24	2,656.57	2,501.37	155.20	17.117	
12,500.00	12,451.70	20,877.00	12,689.46	36.40	121.85	-93.508	-273.35	2,218.59	2,652.91	2,497.09	155.82	17.025	
12,550.00	12,487.00	20,897.87	12,689.33	36.51	122.14	-93.469	-294.21	2,218.91	2,650.13	2,493.78	156.35	16.950	
12,600.00	12,519.08	20,927.39	12,689.32	36.63	122.56	-93.256	-323.73	2,219.43	2,648.17	2,491.21	156.96	16.871	
12,650.00	12,547.69	20,959.26	12,689.52	36.75	123.01	-92.988	-355.59	2,220.09	2,646.94	2,489.34	157.60	16.795	
12,700.00	12,572.62	20,992.14	12,689.93	36.86	123.47	-92.698	-388.46	2,220.89	2,646.36	2,488.10	158.26	16.722	
12,723.98	12,583.22	21,008.17	12,690.15	36.92	123.70	-92.556	-404.49	2,221.32	2,646.29	2,487.72	158.58	16.688 CC	
12,750.00	12,593.68	21,025.92	12,690.42	36.99	123.95	-92.399	-422.23	2,221.84	2,646.37	2,487.44	158.93	16.652	
12,800.00	12,610.72	21,067.00	12,691.10	37.11	124.53	-92.062	-463.28	2,223.21	2,646.91	2,487.22	159.68	16.576 ES	
12,850.00	12,623.59	21,107.31	12,691.81	37.23	125.10	-91.768	-503.56	2,224.66	2,647.81	2,487.37	160.44	16.503	
12,900.00	12,632.20	21,131.00	12,692.23	37.36	125.44	-91.555	-527.22	2,225.51	2,649.03	2,488.02	161.01	16.453	
12,950.00	12,636.49	21,131.00	12,692.23	37.49	125.44	-91.338	-527.22	2,225.51	2,651.19	2,489.95	161.25	16.442	
12,974.22	12,637.00	21,131.00	12,692.23	37.55	125.44	-91.195	-527.22	2,225.51	2,652.62	2,491.27	161.35	16.440 SF	
13,000.00	12,637.00	21,131.00	12,692.23	37.62	125.44	-91.195	-527.22	2,225.51	2,654.39	2,492.95	161.44	16.442	
13,100.00	12,637.00	21,131.00	12,692.23	37.92	125.44	-91.195	-527.22	2,225.51	2,663.62	2,501.92	161.70	16.473	
13,200.00	12,637.00	21,131.00	12,692.23	38.28	125.44	-91.195	-527.22	2,225.51	2,676.55	2,514.77	161.78	16.544	
13,300.00	12,637.00	21,131.00	12,692.23	38.69	125.44	-91.195	-527.22	2,225.51	2,693.13	2,531.44	161.69	16.656	
13,400.00	12,637.00	21,131.00	12,692.23	39.15	125.44	-91.195	-527.22	2,225.51	2,713.31	2,551.88	161.43	16.808	
13,500.00	12,637.00	21,131.00	12,692.23	39.66	125.44	-91.195	-527.22	2,225.51	2,736.98	2,575.98	161.00	17.000	
13,600.00	12,637.00	21,131.00	12,692.23	40.23	125.44	-91.195	-527.22	2,225.51	2,764.08	2,603.66	160.42	17.230	
13,700.00	12,637.00	21,131.00	12,692.23	40.84	125.44	-91.195	-527.22	2,225.51	2,794.49	2,634.80	159.70	17.499	
13,800.00	12,637.00	21,131.00	12,692.23	41.49	125.44	-91.195	-527.22	2,225.51	2,828.12	2,669.28	158.84	17.805	
13,900.00	12,637.00	21,131.00	12,692.23	42.20	125.44	-91.195	-527.22	2,225.51	2,864.84	2,706.98	157.86	18.148	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 434H - OH / 67733 - Surveys (H&P 474)													Offset Site Error:	0.00 usft
Survey Program:		174-MWD+HRGM					Rule Assigned:				Offset Well Error:	1.00 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,000.00	12,637.00	21,131.00	12,692.23	42.94	125.44	-91.195	-527.22	2,225.51	2,904.54	2,747.76	156.78	18.526		
14,100.00	12,637.00	21,131.00	12,692.23	43.73	125.44	-91.195	-527.22	2,225.51	2,947.10	2,791.50	155.60	18.940		
14,200.00	12,637.00	21,131.00	12,692.23	44.55	125.44	-91.195	-527.22	2,225.51	2,992.40	2,838.06	154.34	19.388		
14,300.00	12,637.00	21,131.00	12,692.23	45.41	125.44	-91.195	-527.22	2,225.51	3,040.32	2,887.31	153.01	19.870		
14,400.00	12,637.00	21,131.00	12,692.23	46.30	125.44	-91.195	-527.22	2,225.51	3,090.73	2,939.10	151.62	20.384		
14,500.00	12,637.00	21,131.00	12,692.23	47.23	125.44	-91.195	-527.22	2,225.51	3,143.51	2,993.32	150.19	20.931		
14,600.00	12,637.00	21,131.00	12,692.23	48.18	125.44	-91.195	-527.22	2,225.51	3,198.55	3,049.83	148.71	21.508		
14,700.00	12,637.00	21,131.00	12,692.23	49.16	125.44	-91.195	-527.22	2,225.51	3,255.73	3,108.51	147.21	22.115		
14,800.00	12,637.00	21,131.00	12,692.23	50.17	125.44	-91.195	-527.22	2,225.51	3,314.94	3,169.24	145.70	22.752		
14,900.00	12,637.00	21,131.00	12,692.23	51.19	125.44	-91.195	-527.22	2,225.51	3,376.07	3,231.91	144.17	23.418		
15,000.00	12,637.00	21,131.00	12,692.23	52.25	125.44	-91.195	-527.22	2,225.51	3,439.03	3,296.40	142.63	24.111		
15,100.00	12,637.00	21,131.00	12,692.23	53.32	125.44	-91.195	-527.22	2,225.51	3,503.71	3,362.61	141.10	24.832		
15,200.00	12,637.00	21,131.00	12,692.23	54.41	125.44	-91.195	-527.22	2,225.51	3,570.02	3,430.45	139.57	25.578		
15,300.00	12,637.00	21,131.00	12,692.23	55.51	125.44	-91.195	-527.22	2,225.51	3,637.87	3,499.81	138.06	26.350		
15,400.00	12,637.00	21,131.00	12,692.23	56.64	125.44	-91.195	-527.22	2,225.51	3,707.18	3,570.61	136.56	27.147		
15,500.00	12,637.00	21,131.00	12,692.23	57.78	125.44	-91.195	-527.22	2,225.51	3,777.86	3,642.78	135.08	27.967		
15,600.00	12,637.00	21,131.00	12,692.23	58.93	125.44	-91.195	-527.22	2,225.51	3,849.84	3,716.21	133.63	28.810		
15,700.00	12,637.00	21,131.00	12,692.23	60.10	125.44	-91.195	-527.22	2,225.51	3,923.05	3,790.85	132.20	29.676		
15,800.00	12,637.00	21,131.00	12,692.23	61.28	125.44	-91.195	-527.22	2,225.51	3,997.42	3,866.63	130.79	30.564		
15,900.00	12,637.00	21,131.00	12,692.23	62.47	125.44	-91.195	-527.22	2,225.51	4,072.89	3,943.48	129.41	31.472		
16,000.00	12,637.00	21,131.00	12,692.23	63.67	125.44	-91.195	-527.22	2,225.51	4,149.40	4,021.33	128.07	32.400		
16,100.00	12,637.00	21,131.00	12,692.23	64.88	125.44	-91.195	-527.22	2,225.51	4,226.88	4,100.13	126.75	33.348		
16,200.00	12,637.00	21,131.00	12,692.23	66.11	125.44	-91.195	-527.22	2,225.51	4,305.30	4,179.84	125.46	34.315		
16,300.00	12,637.00	21,131.00	12,692.23	67.34	125.44	-91.195	-527.22	2,225.51	4,384.59	4,260.38	124.21	35.300		
16,400.00	12,637.00	21,131.00	12,692.23	68.58	125.44	-91.195	-527.22	2,225.51	4,464.72	4,341.73	122.99	36.302		
16,500.00	12,637.00	21,131.00	12,692.23	69.82	125.44	-91.195	-527.22	2,225.51	4,545.63	4,423.83	121.80	37.321		
16,600.00	12,637.00	21,131.00	12,692.23	71.08	125.44	-91.195	-527.22	2,225.51	4,627.29	4,506.65	120.64	38.357		
16,700.00	12,637.00	21,131.00	12,692.23	72.34	125.44	-91.195	-527.22	2,225.51	4,709.66	4,590.15	119.51	39.407		
16,800.00	12,637.00	21,131.00	12,692.23	73.61	125.44	-91.195	-527.22	2,225.51	4,792.70	4,674.28	118.42	40.473		
16,900.00	12,637.00	21,131.00	12,692.23	74.88	125.44	-91.195	-527.22	2,225.51	4,876.37	4,759.02	117.35	41.554		
17,000.00	12,637.00	21,131.00	12,692.23	76.16	125.44	-91.195	-527.22	2,225.51	4,960.65	4,844.33	116.32	42.648		
17,100.00	12,637.00	21,131.00	12,692.23	77.45	125.44	-91.195	-527.22	2,225.51	5,045.50	4,930.19	115.31	43.755		
17,200.00	12,637.00	21,131.00	12,692.23	78.74	125.44	-91.195	-527.22	2,225.51	5,130.90	5,016.57	114.34	44.875		
17,300.00	12,637.00	21,131.00	12,692.23	80.04	125.44	-91.195	-527.22	2,225.51	5,216.82	5,103.43	113.39	46.007		
17,400.00	12,637.00	21,131.00	12,692.23	81.34	125.44	-91.195	-527.22	2,225.51	5,303.23	5,190.76	112.47	47.151		
17,500.00	12,637.00	21,131.00	12,692.23	82.65	125.44	-91.195	-527.22	2,225.51	5,390.11	5,278.53	111.58	48.306		
17,600.00	12,637.00	21,131.00	12,692.23	83.96	125.44	-91.195	-527.22	2,225.51	5,477.44	5,366.73	110.72	49.472		
17,700.00	12,637.00	21,131.00	12,692.23	85.27	125.44	-91.195	-527.22	2,225.51	5,565.20	5,455.32	109.88	50.647		
17,800.00	12,637.00	21,131.00	12,692.23	86.59	125.44	-91.195	-527.22	2,225.51	5,653.36	5,544.29	109.07	51.833		
17,900.00	12,637.00	21,131.00	12,692.23	87.91	125.44	-91.195	-527.22	2,225.51	5,741.91	5,633.63	108.28	53.027		
18,000.00	12,637.00	21,131.00	12,692.23	89.24	125.44	-91.195	-527.22	2,225.51	5,830.83	5,723.31	107.52	54.230		
18,100.00	12,637.00	21,131.00	12,692.23	90.57	125.44	-91.195	-527.22	2,225.51	5,920.11	5,813.33	106.78	55.442		
18,200.00	12,637.00	21,131.00	12,692.23	91.90	125.44	-91.195	-527.22	2,225.51	6,009.72	5,903.66	106.06	56.661		
18,300.00	12,637.00	21,131.00	12,692.23	93.24	125.44	-91.195	-527.22	2,225.51	6,099.65	5,994.28	105.37	57.888		
18,400.00	12,637.00	21,131.00	12,692.23	94.58	125.44	-91.195	-527.22	2,225.51	6,189.90	6,085.20	104.70	59.121		
18,500.00	12,637.00	21,131.00	12,692.23	95.92	125.44	-91.195	-527.22	2,225.51	6,280.44	6,176.39	104.05	60.362		
18,600.00	12,637.00	21,131.00	12,692.23	97.26	125.44	-91.195	-527.22	2,225.51	6,371.26	6,267.84	103.42	61.608		
18,700.00	12,637.00	21,131.00	12,692.23	98.61	125.44	-91.195	-527.22	2,225.51	6,462.35	6,359.55	102.80	62.860		
18,800.00	12,637.00	21,131.00	12,692.23	99.96	125.44	-91.195	-527.22	2,225.51	6,553.71	6,451.49	102.21	64.118		
18,900.00	12,637.00	21,131.00	12,692.23	101.31	125.44	-91.195	-527.22	2,225.51	6,645.31	6,543.67	101.64	65.381		
19,000.00	12,637.00	21,131.00	12,692.23	102.67	125.44	-91.195	-527.22	2,225.51	6,737.15	6,636.06	101.09	66.648		
19,100.00	12,637.00	21,131.00	12,692.23	104.02	125.44	-91.195	-527.22	2,225.51	6,829.22	6,728.67	100.55	67.920		

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 434H - OH / 67733 - Surveys (H&P 474)												Offset Site Error: 0.00 usft					
Survey Program: 174-MWD+HRGM				Reference		Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Rule Assigned:		Offset Well Error: 1.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning				
19,200.00	12,637.00	21,131.00	12,692.23	105.38	125.44	-91.195	-527.22	2,225.51	6,921.51	6,821.48	100.03	69.196					
19,300.00	12,637.00	21,131.00	12,692.23	106.74	125.44	-91.195	-527.22	2,225.51	7,014.01	6,914.49	99.52	70.476					
19,400.00	12,637.00	21,131.00	12,692.23	108.11	125.44	-91.195	-527.22	2,225.51	7,106.72	7,007.68	99.04	71.759					
19,500.00	12,637.00	21,131.00	12,692.23	109.47	125.44	-91.195	-527.22	2,225.51	7,199.62	7,101.05	98.56	73.045					
19,600.00	12,637.00	21,131.00	12,692.23	110.84	125.44	-91.195	-527.22	2,225.51	7,292.70	7,194.60	98.11	74.334					
19,700.00	12,637.00	21,131.00	12,692.23	112.20	125.44	-91.195	-527.22	2,225.51	7,385.97	7,288.31	97.67	75.625					
19,800.00	12,637.00	21,131.00	12,692.23	113.57	125.44	-91.195	-527.22	2,225.51	7,479.41	7,382.18	97.24	76.918					
19,900.00	12,637.00	21,131.00	12,692.23	114.95	125.44	-91.195	-527.22	2,225.51	7,573.02	7,476.20	96.82	78.214					
20,000.00	12,637.00	21,131.00	12,692.23	116.32	125.44	-91.195	-527.22	2,225.51	7,666.79	7,570.37	96.42	79.511					
20,100.00	12,637.00	21,131.00	12,692.23	117.69	125.44	-91.195	-527.22	2,225.51	7,760.72	7,664.68	96.04	80.810					
20,200.00	12,637.00	21,131.00	12,692.23	119.07	125.44	-91.195	-527.22	2,225.51	7,854.80	7,759.14	95.66	82.110					
20,300.00	12,637.00	21,131.00	12,692.23	120.45	125.44	-91.195	-527.22	2,225.51	7,949.02	7,853.72	95.30	83.410					
20,400.00	12,637.00	21,131.00	12,692.23	121.83	125.44	-91.195	-527.22	2,225.51	8,043.38	7,948.43	94.95	84.712					
20,500.00	12,637.00	21,131.00	12,692.23	123.21	125.44	-91.195	-527.22	2,225.51	8,137.88	8,043.26	94.61	86.013					
20,600.00	12,637.00	21,131.00	12,692.23	124.59	125.44	-91.195	-527.22	2,225.51	8,232.50	8,138.22	94.28	87.315					
20,700.00	12,637.00	21,131.00	12,692.23	125.97	125.44	-91.195	-527.22	2,225.51	8,327.25	8,233.28	93.97	88.617					
20,800.00	12,637.00	21,131.00	12,692.23	127.35	125.44	-91.195	-527.22	2,225.51	8,422.13	8,328.46	93.66	89.919					
20,900.00	12,637.00	21,131.00	12,692.23	128.74	125.44	-91.195	-527.22	2,225.51	8,517.12	8,423.75	93.37	91.220					
21,000.00	12,637.00	21,131.00	12,692.23	130.12	125.44	-91.195	-527.22	2,225.51	8,612.22	8,519.13	93.08	92.521					
21,100.00	12,637.00	21,131.00	12,692.23	131.51	125.44	-91.195	-527.22	2,225.51	8,707.43	8,614.62	92.81	93.821					
21,200.00	12,637.00	21,131.00	12,692.23	132.90	125.44	-91.195	-527.22	2,225.51	8,802.75	8,710.21	92.54	95.120					
21,300.00	12,637.00	21,131.00	12,692.23	134.29	125.44	-91.195	-527.22	2,225.51	8,898.17	8,805.89	92.29	96.418					
21,400.00	12,637.00	21,131.00	12,692.23	135.68	125.44	-91.195	-527.22	2,225.51	8,993.69	8,901.65	92.04	97.714					
21,500.00	12,637.00	21,131.00	12,692.23	137.07	125.44	-91.195	-527.22	2,225.51	9,089.31	8,997.51	91.80	99.009					
21,600.00	12,637.00	21,131.00	12,692.23	138.46	125.44	-91.195	-527.22	2,225.51	9,185.02	9,093.45	91.57	100.303					
21,700.00	12,637.00	21,131.00	12,692.23	139.85	125.44	-91.195	-527.22	2,225.51	9,280.82	9,189.47	91.35	101.594					
21,800.00	12,637.00	21,131.00	12,692.23	141.25	125.44	-91.195	-527.22	2,225.51	9,376.71	9,285.57	91.14	102.884					
21,900.00	12,637.00	21,131.00	12,692.23	142.64	125.44	-91.195	-527.22	2,225.51	9,472.69	9,381.75	90.93	104.171					
22,000.00	12,637.00	21,131.00	12,692.23	144.04	125.44	-91.195	-527.22	2,225.51	9,568.74	9,478.01	90.74	105.456					
22,100.00	12,637.00	21,131.00	12,692.23	145.43	125.44	-91.195	-527.22	2,225.51	9,664.88	9,574.33	90.55	106.739					
22,200.00	12,637.00	21,131.00	12,692.23	146.83	125.44	-91.195	-527.22	2,225.51	9,761.10	9,670.73	90.36	108.019					
22,300.00	12,637.00	21,131.00	12,692.23	148.23	125.44	-91.195	-527.22	2,225.51	9,857.39	9,767.20	90.19	109.296					
22,400.00	12,637.00	21,131.00	12,692.23	149.63	125.44	-91.195	-527.22	2,225.51	9,953.75	9,863.73	90.02	110.571					
22,500.00	12,637.00	21,131.00	12,692.23	151.02	125.44	-91.195	-527.22	2,225.51	10,050.18	9,960.32	89.86	111.843					
22,600.00	12,637.00	21,131.00	12,692.23	152.42	125.44	-91.195	-527.22	2,225.51	10,146.68	10,056.98	89.71	113.111					
22,700.00	12,637.00	21,131.00	12,692.23	153.83	125.44	-91.195	-527.22	2,225.51	10,243.25	10,153.70	89.56	114.377					
22,800.00	12,637.00	21,131.00	12,692.23	155.23	125.44	-91.195	-527.22	2,225.51	10,339.89	10,250.47	89.42	115.639					
22,900.00	12,637.00	21,131.00	12,692.23	156.63	125.44	-91.195	-527.22	2,225.51	10,436.59	10,347.31	89.28	116.898					
23,000.00	12,637.00	21,131.00	12,692.23	158.03	125.44	-91.195	-527.22	2,225.51	10,533.35	10,444.20	89.15	118.154					
23,100.00	12,637.00	21,131.00	12,692.23	159.43	125.44	-91.195	-527.22	2,225.51	10,630.17	10,541.14	89.03	119.406					
23,124.22	12,637.00	21,131.00	12,692.23	159.77	125.44	-91.195	-527.22	2,225.51	10,653.63	10,564.63	89.00	119.709					

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 514H - OH / 67734 - Surveys (H&P 474)													Offset Site Error: 0.00 usft
Survey Program: 174-MWD+HDGM+MS													Offset Well Error: 1.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	60.21	17.20	1.00	1.00	15.291	8,053.16	2,201.76	8,348.74				
100.00	100.00	200.15	157.12	1.08	1.05	15.311	8,051.78	2,204.42	8,348.29	8,346.16	2.13	3,919.416	
200.00	200.00	265.09	222.05	1.60	1.16	15.318	8,051.32	2,205.26	8,347.90	8,345.14	2.76	3,023.191	
300.00	300.00	353.04	310.00	2.01	1.35	15.321	8,051.05	2,205.68	8,347.73	8,344.36	3.36	2,484.192	
380.82	380.82	423.86	380.81	2.29	1.53	15.322	8,050.95	2,205.85	8,347.67	8,343.85	3.82	2,186.300	
400.00	400.00	438.62	395.58	2.35	1.57	15.322	8,050.94	2,205.89	8,347.67	8,343.75	3.93	2,126.652	
500.00	500.00	520.77	477.72	2.65	1.81	15.325	8,050.99	2,206.29	8,347.85	8,343.39	4.46	1,870.844	
600.00	600.00	629.23	586.19	2.93	2.14	15.329	8,051.11	2,206.88	8,348.11	8,343.05	5.06	1,649.241	
700.00	700.00	730.32	687.27	3.18	2.44	15.324	8,051.38	2,206.25	8,348.20	8,342.58	5.62	1,485.687	
800.00	800.00	814.99	771.94	3.41	2.70	15.316	8,051.91	2,205.12	8,348.45	8,342.34	6.12	1,365.111	
900.00	900.00	917.12	874.05	3.64	3.03	15.305	8,052.70	2,203.69	8,348.82	8,342.16	6.66	1,252.964	
1,000.00	1,000.00	1,047.88	1,004.80	3.85	3.46	15.292	8,053.36	2,201.96	8,348.97	8,341.67	7.30	1,143.264	
1,006.46	1,006.46	1,056.63	1,013.54	3.86	3.49	15.291	8,053.39	2,201.84	8,348.97	8,341.62	7.34	1,136.740	
1,100.00	1,100.00	1,136.00	1,092.91	4.05	3.75	15.283	8,053.73	2,200.74	8,349.00	8,341.21	7.80	1,070.557	
1,200.00	1,200.00	1,236.90	1,193.80	4.24	4.09	15.276	8,054.10	2,199.72	8,349.09	8,340.76	8.33	1,001.880	
1,300.00	1,300.00	1,339.66	1,296.55	4.43	4.44	15.272	8,054.32	2,199.13	8,349.15	8,340.28	8.87	941.198	
1,400.00	1,400.00	1,444.86	1,401.76	4.61	4.80	15.268	8,054.47	2,198.67	8,349.17	8,339.76	9.41	887.102	
1,500.00	1,500.00	1,550.50	1,507.37	4.78	5.16	15.284	8,053.80	2,200.82	8,349.09	8,339.14	9.95	839.428	
1,504.28	1,504.28	1,554.60	1,511.46	4.79	5.18	124.749	8,053.75	2,200.96	8,349.09	8,339.12	9.97	837.759	
1,600.00	1,599.98	1,649.96	1,606.71	5.03	5.50	124.775	8,052.49	2,205.33	8,350.01	8,339.58	10.43	800.469	
1,629.90	1,629.86	1,680.88	1,637.60	5.06	5.61	124.782	8,052.04	2,206.84	8,350.67	8,340.12	10.55	791.159	
1,700.00	1,699.88	1,757.30	1,713.91	5.14	5.87	124.829	8,050.90	2,210.65	8,352.40	8,341.51	10.88	767.480	
1,800.00	1,799.78	1,843.73	1,800.22	5.31	6.17	124.883	8,049.55	2,215.13	8,354.87	8,343.54	11.33	737.619	
1,900.00	1,899.68	1,925.44	1,881.79	5.50	6.45	124.935	8,048.43	2,219.53	8,357.58	8,345.81	11.77	710.107	
2,000.00	1,999.58	2,013.51	1,969.73	5.70	6.76	124.992	8,047.34	2,224.44	8,360.47	8,348.24	12.24	683.093	
2,100.00	2,099.47	2,103.36	2,059.42	5.91	7.08	125.051	8,046.28	2,229.59	8,363.48	8,350.77	12.72	657.528	
2,200.00	2,199.37	2,187.67	2,143.58	6.14	7.37	125.107	8,045.36	2,234.63	8,366.66	8,353.47	13.18	634.575	
2,300.00	2,299.27	2,269.70	2,225.44	6.37	7.66	125.162	8,044.60	2,239.67	8,370.05	8,356.40	13.65	613.399	
2,400.00	2,399.16	2,348.00	2,303.59	6.61	7.94	125.216	8,043.99	2,244.63	8,373.64	8,359.54	14.10	594.038	
2,500.00	2,499.06	2,426.31	2,381.72	6.86	8.22	125.271	8,043.52	2,249.80	8,377.50	8,362.95	14.55	575.766	
2,600.00	2,598.96	2,504.44	2,459.67	7.12	8.50	125.326	8,043.24	2,255.16	8,381.66	8,366.65	15.01	558.537	
2,700.00	2,698.86	2,589.22	2,544.24	7.38	8.80	125.387	8,043.10	2,261.12	8,386.05	8,370.56	15.49	541.403	
2,800.00	2,798.75	2,667.38	2,622.20	7.65	9.08	125.443	8,043.07	2,266.68	8,390.62	8,374.67	15.95	526.022	
2,900.00	2,898.65	2,936.74	2,891.01	7.92	10.05	125.625	8,041.37	2,283.52	8,394.45	8,377.34	17.11	490.685	
3,000.00	2,998.55	3,012.00	2,966.13	8.20	10.32	125.675	8,040.26	2,287.98	8,397.33	8,379.76	17.56	478.095	
3,100.00	3,098.44	3,086.78	3,040.76	8.48	10.59	125.726	8,039.29	2,292.70	8,400.51	8,382.49	18.02	466.145	
3,200.00	3,198.34	3,150.70	3,104.54	8.77	10.82	125.770	8,038.69	2,296.75	8,404.04	8,385.60	18.44	455.749	
3,300.00	3,298.24	3,202.00	3,155.75	9.05	11.01	125.803	8,038.50	2,299.79	8,408.06	8,389.24	18.81	446.908	
3,400.00	3,398.14	3,278.58	3,232.21	9.35	11.28	125.852	8,038.56	2,304.32	8,412.48	8,393.20	19.28	436.309	
3,500.00	3,498.03	3,350.18	3,303.66	9.64	11.54	125.898	8,038.84	2,308.79	8,417.29	8,397.56	19.73	426.593	
3,600.00	3,597.93	3,420.92	3,374.25	9.94	11.80	125.945	8,039.29	2,313.41	8,422.42	8,402.24	20.18	417.361	
3,700.00	3,697.83	3,486.00	3,439.17	10.23	12.03	125.990	8,039.86	2,317.96	8,427.94	8,407.33	20.61	408.939	
3,800.00	3,797.72	3,550.33	3,503.32	10.53	12.26	126.035	8,040.64	2,322.66	8,433.87	8,412.83	21.04	400.910	
3,900.00	3,897.62	3,614.87	3,567.67	10.84	12.50	126.081	8,041.68	2,327.49	8,440.25	8,418.78	21.47	393.191	
4,000.00	3,997.52	3,699.26	3,651.80	11.14	12.80	126.140	8,043.38	2,333.88	8,447.01	8,425.04	21.97	384.474	
4,100.00	4,097.42	3,840.63	3,792.83	11.45	13.32	126.231	8,046.02	2,343.28	8,453.36	8,430.67	22.69	372.595	
4,200.00	4,197.31	3,936.10	3,888.08	11.75	13.66	126.292	8,047.71	2,349.58	8,459.67	8,436.43	23.24	364.089	
4,300.00	4,297.21	4,033.39	3,985.12	12.06	14.02	126.357	8,049.38	2,356.35	8,466.03	8,442.24	23.79	355.845	
4,400.00	4,397.11	4,183.24	4,134.57	12.37	14.56	126.460	8,051.42	2,367.10	8,472.14	8,447.59	24.55	345.139	
4,500.00	4,497.01	4,294.13	4,245.18	12.68	14.97	126.534	8,052.52	2,374.77	8,477.82	8,452.67	25.16	336.989	
4,600.00	4,596.90	4,401.23	4,352.02	13.00	15.36	126.606	8,053.55	2,382.15	8,483.49	8,457.73	25.75	329.392	
4,700.00	4,696.80	4,491.73	4,442.31	13.31	15.69	126.667	8,054.36	2,388.34	8,489.09	8,462.80	26.29	322.888	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 514H - OH / 67734 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 174-MWD+HDGM+MS												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Offset												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,800.00	4,796.70	4,567.47	4,517.87	13.62	15.96	126.717	8,055.22	2,393.52	8,494.93	8,468.16	26.77	317.300	
4,900.00	4,896.59	4,996.31	4,945.71	13.94	17.53	127.007	8,054.07	2,421.93	8,500.64	8,472.07	28.57	297.514	
5,000.00	4,996.49	5,095.00	5,044.15	14.25	17.89	127.078	8,051.38	2,428.38	8,502.75	8,473.60	29.14	291.752	
5,100.00	5,096.39	21,341.00	13,038.03	14.57	121.71	-154.521	-508.38	2,699.85	8,450.12	8,363.08	87.04	97.087	
5,200.00	5,196.29	21,341.00	13,038.03	14.89	121.71	-154.521	-508.38	2,699.85	8,357.68	8,270.27	87.41	95.609	
5,300.00	5,296.18	21,341.00	13,038.03	15.20	121.71	-154.521	-508.38	2,699.85	8,265.42	8,177.62	87.80	94.137	
5,400.00	5,396.08	21,341.00	13,038.03	15.52	121.71	-154.521	-508.38	2,699.85	8,173.34	8,085.14	88.20	92.670	
5,500.00	5,495.98	21,341.00	13,038.03	15.84	121.71	-154.521	-508.38	2,699.85	8,081.44	7,992.84	88.60	91.209	
5,600.00	5,595.87	21,341.00	13,038.03	16.16	121.71	-154.521	-508.38	2,699.85	7,989.74	7,900.73	89.02	89.753	
5,700.00	5,695.77	21,341.00	13,038.03	16.48	121.71	-154.521	-508.38	2,699.85	7,898.25	7,808.80	89.44	88.304	
5,800.00	5,795.67	21,341.00	13,038.03	16.80	121.71	-154.521	-508.38	2,699.85	7,806.96	7,717.08	89.88	86.860	
5,900.00	5,895.57	21,341.00	13,038.03	17.12	121.71	-154.521	-508.38	2,699.85	7,715.89	7,625.56	90.33	85.423	
6,000.00	5,995.46	21,341.00	13,038.03	17.44	121.71	-154.521	-508.38	2,699.85	7,625.04	7,534.26	90.78	83.993	
6,100.00	6,095.36	21,341.00	13,038.03	17.76	121.71	-154.521	-508.38	2,699.85	7,534.42	7,443.17	91.25	82.569	
6,200.00	6,195.26	21,341.00	13,038.03	18.09	121.71	-154.521	-508.38	2,699.85	7,444.05	7,352.32	91.73	81.153	
6,300.00	6,295.16	21,341.00	13,038.03	18.41	121.71	-154.521	-508.38	2,699.85	7,353.92	7,261.70	92.22	79.743	
6,400.00	6,395.05	21,341.00	13,038.03	18.73	121.71	-154.521	-508.38	2,699.85	7,264.05	7,171.33	92.72	78.341	
6,500.00	6,494.95	21,341.00	13,038.03	19.06	121.71	-154.521	-508.38	2,699.85	7,174.45	7,081.21	93.24	76.947	
6,600.00	6,594.85	21,341.00	13,038.03	19.38	121.71	-154.521	-508.38	2,699.85	7,085.13	6,991.36	93.77	75.561	
6,700.00	6,694.74	21,341.00	13,038.03	19.70	121.71	-154.521	-508.38	2,699.85	6,996.09	6,901.78	94.31	74.183	
6,800.00	6,794.64	21,341.00	13,038.03	20.03	121.71	-154.521	-508.38	2,699.85	6,907.36	6,812.50	94.86	72.813	
6,900.00	6,894.54	21,341.00	13,038.03	20.35	121.71	-154.521	-508.38	2,699.85	6,818.94	6,723.50	95.43	71.453	
7,000.00	6,994.44	21,341.00	13,038.03	20.68	121.71	-154.521	-508.38	2,699.85	6,730.84	6,634.82	96.02	70.101	
7,100.00	7,094.33	21,341.00	13,038.03	21.00	121.71	-154.521	-508.38	2,699.85	6,643.08	6,546.46	96.62	68.758	
7,200.00	7,194.23	21,341.00	13,038.03	21.33	121.71	-154.521	-508.38	2,699.85	6,555.67	6,458.44	97.23	67.424	
7,300.00	7,294.13	21,341.00	13,038.03	21.65	121.71	-154.521	-508.38	2,699.85	6,468.62	6,370.76	97.86	66.101	
7,400.00	7,394.02	21,341.00	13,038.03	21.98	121.71	-154.521	-508.38	2,699.85	6,381.96	6,283.45	98.51	64.787	
7,500.00	7,493.92	21,341.00	13,038.03	22.30	121.71	-154.521	-508.38	2,699.85	6,295.69	6,196.52	99.17	63.484	
7,600.00	7,593.82	21,341.00	13,038.03	22.63	121.71	-154.521	-508.38	2,699.85	6,209.83	6,109.98	99.85	62.191	
7,700.00	7,693.72	21,341.00	13,038.03	22.95	121.71	-154.521	-508.38	2,699.85	6,124.40	6,023.85	100.55	60.910	
7,800.00	7,793.61	21,341.00	13,038.03	23.28	121.71	-154.521	-508.38	2,699.85	6,039.42	5,938.15	101.27	59.639	
7,900.00	7,893.51	21,341.00	13,038.03	23.61	121.71	-154.521	-508.38	2,699.85	5,954.91	5,852.90	102.00	58.380	
8,000.00	7,993.41	21,341.00	13,038.03	23.93	121.71	-154.521	-508.38	2,699.85	5,870.88	5,768.12	102.76	57.133	
8,100.00	8,093.31	21,341.00	13,038.03	24.26	121.71	-154.521	-508.38	2,699.85	5,787.36	5,683.82	103.53	55.899	
8,200.00	8,193.20	21,341.00	13,038.03	24.59	121.71	-154.521	-508.38	2,699.85	5,704.37	5,600.04	104.33	54.677	
8,300.00	8,293.10	21,341.00	13,038.03	24.92	121.71	-154.521	-508.38	2,699.85	5,621.93	5,516.78	105.15	53.468	
8,400.00	8,393.00	21,341.00	13,038.03	25.24	121.71	-154.521	-508.38	2,699.85	5,540.07	5,434.09	105.99	52.272	
8,500.00	8,492.89	21,341.00	13,038.03	25.57	121.71	-154.521	-508.38	2,699.85	5,458.82	5,351.97	106.85	51.090	
8,600.00	8,592.79	21,341.00	13,038.03	25.90	121.71	-154.521	-508.38	2,699.85	5,378.20	5,270.46	107.73	49.922	
8,700.00	8,692.69	21,341.00	13,038.03	26.23	121.71	-154.521	-508.38	2,699.85	5,298.23	5,189.60	108.64	48.769	
8,800.00	8,792.59	21,341.00	13,038.03	26.55	121.71	-154.521	-508.38	2,699.85	5,218.96	5,109.39	109.57	47.631	
8,900.00	8,892.48	21,341.00	13,038.03	26.88	121.71	-154.521	-508.38	2,699.85	5,140.42	5,029.89	110.53	46.508	
9,000.00	8,992.38	21,341.00	13,038.03	27.21	121.71	-154.521	-508.38	2,699.85	5,062.63	4,951.12	111.51	45.401	
9,100.00	9,092.28	21,341.00	13,038.03	27.54	121.71	-154.521	-508.38	2,699.85	4,985.63	4,873.11	112.51	44.311	
9,200.00	9,192.17	20,740.17	13,061.41	27.87	114.46	-165.281	90.87	2,687.32	4,908.71	4,799.93	108.79	45.121	
9,300.00	9,292.07	20,740.59	13,061.41	28.19	114.47	-165.273	90.46	2,687.35	4,833.09	4,723.24	109.85	43.997	
9,400.00	9,391.97	20,741.01	13,061.41	28.52	114.47	-165.266	90.04	2,687.37	4,758.37	4,647.44	110.94	42.893	
9,500.00	9,491.87	20,741.44	13,061.41	28.85	114.48	-165.258	89.61	2,687.40	4,684.60	4,572.55	112.05	41.808	
9,600.00	9,591.76	20,741.88	13,061.41	29.18	114.49	-165.250	89.17	2,687.43	4,611.81	4,498.62	113.19	40.743	
9,700.00	9,691.66	20,742.32	13,061.41	29.51	114.49	-165.242	88.73	2,687.46	4,540.06	4,425.70	114.36	39.699	
9,800.00	9,791.56	20,742.78	13,061.41	29.84	114.50	-165.234	88.27	2,687.49	4,469.39	4,353.83	115.56	38.677	
9,900.00	9,891.45	20,743.24	13,061.41	30.17	114.50	-165.225	87.81	2,687.53	4,399.86	4,283.08	116.78	37.677	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 514H - OH / 67734 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 174-MWD+HDGM+MS												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,000.00	9,991.35	20,743.71	13,061.42	30.50	114.51	-165.217	87.34	2,687.56	4,331.52	4,213.50	118.02	36.700	
10,100.00	10,091.25	20,744.19	13,061.42	30.83	114.51	-165.208	86.86	2,687.59	4,264.43	4,145.14	119.30	35.746	
10,200.00	10,191.15	20,744.69	13,061.42	31.15	114.52	-165.199	86.37	2,687.62	4,198.66	4,078.06	120.59	34.816	
10,300.00	10,291.04	20,745.19	13,061.42	31.48	114.52	-165.190	85.87	2,687.66	4,134.25	4,012.34	121.92	33.911	
10,400.00	10,390.94	20,745.70	13,061.42	31.81	114.53	-165.181	85.36	2,687.69	4,071.28	3,948.03	123.26	33.031	
10,500.00	10,490.84	20,746.22	13,061.42	32.14	114.54	-165.172	84.84	2,687.73	4,009.82	3,885.20	124.62	32.176	
10,600.00	10,590.74	20,746.75	13,061.42	32.47	114.54	-165.162	84.31	2,687.77	3,949.93	3,823.93	126.00	31.348	
10,700.00	10,690.63	20,747.30	13,061.42	32.80	114.55	-165.153	83.76	2,687.80	3,891.70	3,764.29	127.40	30.547	
10,800.00	10,790.53	20,747.85	13,061.43	33.13	114.56	-165.143	83.21	2,687.84	3,835.18	3,706.37	128.81	29.773	
10,900.00	10,890.43	20,748.42	13,061.43	33.46	114.56	-165.132	82.64	2,687.88	3,780.46	3,650.23	130.23	29.028	
11,000.00	10,990.32	20,749.00	13,061.43	33.79	114.57	-165.122	82.07	2,687.92	3,727.63	3,595.97	131.66	28.312	
11,100.00	11,090.22	20,749.59	13,061.43	34.12	114.58	-165.111	81.48	2,687.97	3,676.75	3,543.66	133.10	27.625	
11,200.00	11,190.12	20,750.19	13,061.43	34.45	114.58	-165.100	80.87	2,688.01	3,627.92	3,493.40	134.53	26.968	
11,300.00	11,290.02	20,750.81	13,061.44	34.78	114.59	-165.089	80.26	2,688.05	3,581.22	3,445.26	135.95	26.341	
11,400.00	11,389.91	20,751.45	13,061.44	35.11	114.60	-165.078	79.62	2,688.10	3,536.73	3,399.35	137.37	25.746	
11,444.32	11,434.18	20,751.73	13,061.44	35.25	114.60	-165.073	79.34	2,688.12	3,517.74	3,379.75	137.99	25.493	
11,500.00	11,489.83	20,752.04	13,061.44	35.42	114.61	-164.932	79.04	2,688.14	3,494.05	3,355.30	138.75	25.182	
11,574.22	11,564.04	20,752.27	13,061.44	35.53	114.61	85.793	78.80	2,688.16	3,462.14	3,322.49	139.65	24.791	
11,600.00	11,589.82	20,752.31	13,061.44	35.53	114.61	85.794	78.76	2,688.16	3,451.07	3,311.14	139.93	24.663	
11,700.00	11,689.82	20,752.50	13,061.44	35.54	114.61	85.797	78.58	2,688.17	3,409.63	3,268.65	140.98	24.185	
11,800.00	11,789.82	20,752.68	13,061.44	35.56	114.61	85.800	78.39	2,688.18	3,370.64	3,228.64	142.00	23.736	
11,900.00	11,889.82	20,752.87	13,061.44	35.58	114.62	85.804	78.20	2,688.20	3,334.20	3,191.22	142.98	23.319	
12,000.00	11,989.82	20,753.07	13,061.45	35.60	114.62	85.808	78.00	2,688.21	3,300.39	3,156.48	143.91	22.934	
12,074.22	12,064.04	20,753.22	13,061.45	35.61	114.62	85.810	77.86	2,688.22	3,277.05	3,132.49	144.56	22.669	
12,100.00	12,089.81	20,753.52	13,061.45	35.62	114.62	-94.419	77.56	2,688.24	3,269.33	3,124.55	144.78	22.581	
12,150.00	12,139.60	20,809.97	13,061.56	35.69	115.30	-94.869	21.24	2,692.02	3,255.25	3,109.48	145.77	22.332	
12,200.00	12,188.82	20,818.47	13,061.52	35.77	115.41	-96.078	12.75	2,692.51	3,242.05	3,095.77	146.28	22.163	
12,250.00	12,237.08	20,831.23	13,061.46	35.86	115.56	-97.090	0.02	2,693.25	3,229.98	3,083.14	146.84	21.997	
12,300.00	12,284.02	20,848.15	13,061.38	35.96	115.76	-97.907	-16.87	2,694.23	3,219.10	3,071.67	147.42	21.836	
12,350.00	12,329.30	20,910.34	13,060.69	36.06	116.51	-97.873	-78.98	2,697.23	3,209.02	3,060.61	148.42	21.622	
12,400.00	12,372.55	20,921.32	13,060.61	36.17	116.65	-98.575	-89.94	2,697.75	3,200.32	3,051.38	148.94	21.488	
12,450.00	12,413.46	21,253.00	13,046.36	36.28	120.65	-94.410	-420.82	2,702.35	3,193.20	3,041.36	151.84	21.030	
12,500.00	12,451.70	21,278.83	13,043.91	36.40	120.96	-94.954	-446.51	2,701.62	3,184.05	3,031.55	152.50	20.880	
12,550.00	12,487.00	21,310.69	13,040.90	36.51	121.35	-95.349	-478.23	2,700.71	3,175.74	3,022.55	153.19	20.730	
12,600.00	12,519.08	21,341.00	13,038.03	36.63	121.71	-95.711	-508.38	2,699.85	3,168.26	3,014.37	153.89	20.587	
12,650.00	12,547.69	21,341.00	13,038.03	36.75	121.71	-96.356	-508.38	2,699.85	3,161.83	3,007.42	154.41	20.476	
12,700.00	12,572.62	21,341.00	13,038.03	36.86	121.71	-96.872	-508.38	2,699.85	3,156.66	3,001.74	154.92	20.375	
12,750.00	12,593.68	21,341.00	13,038.03	36.99	121.71	-97.257	-508.38	2,699.85	3,152.80	2,997.38	155.42	20.286	
12,800.00	12,610.72	21,341.00	13,038.03	37.11	121.71	-97.507	-508.38	2,699.85	3,150.27	2,994.38	155.89	20.208	
12,850.00	12,623.59	21,341.00	13,038.03	37.23	121.71	-97.623	-508.38	2,699.85	3,149.11	2,992.77	156.34	20.143	
12,867.46	12,627.08	21,341.00	13,038.03	37.28	121.71	-97.631	-508.38	2,699.85	3,149.02	2,992.53	156.49	20.123 CC, ES	
12,900.00	12,632.20	21,341.00	13,038.03	37.36	121.71	-97.602	-508.38	2,699.85	3,149.31	2,992.56	156.75	20.091	
12,950.00	12,636.49	21,341.00	13,038.03	37.49	121.71	-97.446	-508.38	2,699.85	3,150.89	2,993.75	157.14	20.052	
12,974.22	12,637.00	21,341.00	13,038.03	37.55	121.71	-97.322	-508.38	2,699.85	3,152.14	2,994.84	157.31	20.038	
13,000.00	12,637.00	21,341.00	13,038.03	37.62	121.71	-97.322	-508.38	2,699.85	3,153.75	2,996.27	157.48	20.027	
13,100.00	12,637.00	21,341.00	13,038.03	37.92	121.71	-97.322	-508.38	2,699.85	3,161.96	3,003.88	158.09	20.001 SF	
13,200.00	12,637.00	21,341.00	13,038.03	38.28	121.71	-97.322	-508.38	2,699.85	3,173.31	3,014.71	158.60	20.009	
13,300.00	12,637.00	21,341.00	13,038.03	38.69	121.71	-97.322	-508.38	2,699.85	3,187.75	3,028.75	159.00	20.049	
13,400.00	12,637.00	21,341.00	13,038.03	39.15	121.71	-97.322	-508.38	2,699.85	3,205.25	3,045.95	159.30	20.120	
13,500.00	12,637.00	21,341.00	13,038.03	39.66	121.71	-97.322	-508.38	2,699.85	3,225.76	3,066.26	159.50	20.224	
13,600.00	12,637.00	21,341.00	13,038.03	40.23	121.71	-97.322	-508.38	2,699.85	3,249.21	3,089.61	159.60	20.358	
13,700.00	12,637.00	21,341.00	13,038.03	40.84	121.71	-97.322	-508.38	2,699.85	3,275.56	3,115.96	159.60	20.523	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 514H - OH / 67734 - Surveys (H&P 474)													Offset Site Error:	0.00 usft	
Survey Program:		174-MWD+HDGM+MS					Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
13,800.00	12,637.00	21,341.00	13,038.03	41.49	121.71	-97.322	-508.38	2,699.85	3,304.72	3,145.21	159.51	20.718			
13,900.00	12,637.00	21,341.00	13,038.03	42.20	121.71	-97.322	-508.38	2,699.85	3,336.62	3,177.29	159.33	20.942			
14,000.00	12,637.00	21,341.00	13,038.03	42.94	121.71	-97.322	-508.38	2,699.85	3,371.19	3,212.13	159.06	21.195			
14,100.00	12,637.00	21,341.00	13,038.03	43.73	121.71	-97.322	-508.38	2,699.85	3,408.34	3,249.62	158.72	21.475			
14,200.00	12,637.00	21,341.00	13,038.03	44.55	121.71	-97.322	-508.38	2,699.85	3,447.99	3,289.69	158.30	21.782			
14,300.00	12,637.00	21,341.00	13,038.03	45.41	121.71	-97.322	-508.38	2,699.85	3,490.06	3,332.25	157.82	22.115			
14,400.00	12,637.00	21,341.00	13,038.03	46.30	121.71	-97.322	-508.38	2,699.85	3,534.46	3,377.19	157.27	22.473			
14,500.00	12,637.00	21,341.00	13,038.03	47.23	121.71	-97.322	-508.38	2,699.85	3,581.10	3,424.43	156.68	22.857			
14,600.00	12,637.00	21,341.00	13,038.03	48.18	121.71	-97.322	-508.38	2,699.85	3,629.90	3,473.87	156.03	23.264			
14,700.00	12,637.00	21,341.00	13,038.03	49.16	121.71	-97.322	-508.38	2,699.85	3,680.77	3,525.42	155.34	23.695			
14,800.00	12,637.00	21,341.00	13,038.03	50.17	121.71	-97.322	-508.38	2,699.85	3,733.62	3,579.00	154.62	24.147			
14,900.00	12,637.00	21,341.00	13,038.03	51.19	121.71	-97.322	-508.38	2,699.85	3,788.38	3,634.51	153.86	24.622			
15,000.00	12,637.00	21,341.00	13,038.03	52.25	121.71	-97.322	-508.38	2,699.85	3,844.95	3,691.87	153.08	25.117			
15,100.00	12,637.00	21,341.00	13,038.03	53.32	121.71	-97.322	-508.38	2,699.85	3,903.27	3,751.00	152.28	25.633			
15,200.00	12,637.00	21,341.00	13,038.03	54.41	121.71	-97.322	-508.38	2,699.85	3,963.26	3,811.80	151.45	26.168			
15,300.00	12,637.00	21,341.00	13,038.03	55.51	121.71	-97.322	-508.38	2,699.85	4,024.84	3,874.21	150.62	26.722			
15,400.00	12,637.00	21,341.00	13,038.03	56.64	121.71	-97.322	-508.38	2,699.85	4,087.93	3,938.15	149.78	27.294			
15,500.00	12,637.00	21,341.00	13,038.03	57.78	121.71	-97.322	-508.38	2,699.85	4,152.48	4,003.55	148.93	27.883			
15,600.00	12,637.00	21,341.00	13,038.03	58.93	121.71	-97.322	-508.38	2,699.85	4,218.40	4,070.33	148.07	28.489			
15,700.00	12,637.00	21,341.00	13,038.03	60.10	121.71	-97.322	-508.38	2,699.85	4,285.65	4,138.43	147.22	29.111			
15,800.00	12,637.00	21,341.00	13,038.03	61.28	121.71	-97.322	-508.38	2,699.85	4,354.16	4,207.79	146.37	29.748			
15,900.00	12,637.00	21,341.00	13,038.03	62.47	121.71	-97.322	-508.38	2,699.85	4,423.86	4,278.34	145.52	30.400			
16,000.00	12,637.00	21,341.00	13,038.03	63.67	121.71	-97.322	-508.38	2,699.85	4,494.71	4,350.03	144.68	31.067			
16,100.00	12,637.00	21,341.00	13,038.03	64.88	121.71	-97.322	-508.38	2,699.85	4,566.65	4,422.81	143.85	31.747			
16,200.00	12,637.00	21,341.00	13,038.03	66.11	121.71	-97.322	-508.38	2,699.85	4,639.63	4,496.61	143.02	32.440			
16,300.00	12,637.00	21,341.00	13,038.03	67.34	121.71	-97.322	-508.38	2,699.85	4,713.60	4,571.40	142.21	33.146			
16,400.00	12,637.00	21,341.00	13,038.03	68.58	121.71	-97.322	-508.38	2,699.85	4,788.52	4,647.11	141.41	33.863			
16,500.00	12,637.00	21,341.00	13,038.03	69.82	121.71	-97.322	-508.38	2,699.85	4,864.34	4,723.72	140.62	34.592			
16,600.00	12,637.00	21,341.00	13,038.03	71.08	121.71	-97.322	-508.38	2,699.85	4,941.02	4,801.18	139.85	35.332			
16,700.00	12,637.00	21,341.00	13,038.03	72.34	121.71	-97.322	-508.38	2,699.85	5,018.52	4,879.44	139.08	36.083			
16,800.00	12,637.00	21,341.00	13,038.03	73.61	121.71	-97.322	-508.38	2,699.85	5,096.81	4,958.47	138.34	36.843			
16,900.00	12,637.00	21,341.00	13,038.03	74.88	121.71	-97.322	-508.38	2,699.85	5,175.84	5,038.23	137.61	37.613			
17,000.00	12,637.00	21,341.00	13,038.03	76.16	121.71	-97.322	-508.38	2,699.85	5,255.59	5,118.70	136.89	38.392			
17,100.00	12,637.00	21,341.00	13,038.03	77.45	121.71	-97.322	-508.38	2,699.85	5,336.02	5,199.82	136.19	39.180			
17,200.00	12,637.00	21,341.00	13,038.03	78.74	121.71	-97.322	-508.38	2,699.85	5,417.10	5,281.59	135.51	39.976			
17,300.00	12,637.00	21,341.00	13,038.03	80.04	121.71	-97.322	-508.38	2,699.85	5,498.80	5,363.96	134.84	40.779			
17,400.00	12,637.00	21,341.00	13,038.03	81.34	121.71	-97.322	-508.38	2,699.85	5,581.10	5,446.91	134.19	41.591			
17,500.00	12,637.00	21,341.00	13,038.03	82.65	121.71	-97.322	-508.38	2,699.85	5,663.97	5,530.42	133.56	42.409			
17,600.00	12,637.00	21,341.00	13,038.03	83.96	121.71	-97.322	-508.38	2,699.85	5,747.39	5,614.45	132.94	43.234			
17,700.00	12,637.00	21,341.00	13,038.03	85.27	121.71	-97.322	-508.38	2,699.85	5,831.32	5,698.99	132.33	44.065			
17,800.00	12,637.00	21,341.00	13,038.03	86.59	121.71	-97.322	-508.38	2,699.85	5,915.76	5,784.02	131.75	44.903			
17,900.00	12,637.00	21,341.00	13,038.03	87.91	121.71	-97.322	-508.38	2,699.85	6,000.68	5,869.50	131.17	45.746			
18,000.00	12,637.00	21,341.00	13,038.03	89.24	121.71	-97.322	-508.38	2,699.85	6,086.05	5,955.43	130.62	46.595			
18,100.00	12,637.00	21,341.00	13,038.03	90.57	121.71	-97.322	-508.38	2,699.85	6,171.86	6,041.79	130.07	47.449			
18,200.00	12,637.00	21,341.00	13,038.03	91.90	121.71	-97.322	-508.38	2,699.85	6,258.09	6,128.55	129.55	48.307			
18,300.00	12,637.00	21,341.00	13,038.03	93.24	121.71	-97.322	-508.38	2,699.85	6,344.73	6,215.70	129.04	49.171			
18,400.00	12,637.00	21,341.00	13,038.03	94.58	121.71	-97.322	-508.38	2,699.85	6,431.76	6,303.22	128.54	50.038			
18,500.00	12,637.00	21,341.00	13,038.03	95.92	121.71	-97.322	-508.38	2,699.85	6,519.15	6,391.10	128.05	50.910			
18,600.00	12,637.00	21,341.00	13,038.03	97.26	121.71	-97.322	-508.38	2,699.85	6,606.91	6,479.33	127.58	51.785			
18,700.00	12,637.00	21,341.00	13,038.03	98.61	121.71	-97.322	-508.38	2,699.85	6,695.01	6,567.88	127.13	52.664			
18,800.00	12,637.00	21,341.00	13,038.03	99.96	121.71	-97.322	-508.38	2,699.85	6,783.44	6,656.75	126.68	53.546			
18,900.00	12,637.00	21,341.00	13,038.03	101.31	121.71	-97.322	-508.38	2,699.85	6,872.18	6,745.93	126.25	54.431			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 514H - OH / 67734 - Surveys (H&P 474)													Offset Site Error:	0.00 usft		
Survey Program:		174-MWD+HDGM+MS					Semi Major Axis			Offset Wellbore Centre		Rule Assigned:			Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
19,000.00	12,637.00	21,341.00	13,038.03	102.67	121.71	-97.322	-508.38	2,699.85	6,961.23	6,835.40	125.84	55.320				
19,100.00	12,637.00	21,341.00	13,038.03	104.02	121.71	-97.322	-508.38	2,699.85	7,050.58	6,925.14	125.43	56.210				
19,200.00	12,637.00	21,341.00	13,038.03	105.38	121.71	-97.322	-508.38	2,699.85	7,140.20	7,015.16	125.04	57.104				
19,300.00	12,637.00	21,341.00	13,038.03	106.74	121.71	-97.322	-508.38	2,699.85	7,230.10	7,105.44	124.66	57.999				
19,400.00	12,637.00	21,341.00	13,038.03	108.11	121.71	-97.322	-508.38	2,699.85	7,320.26	7,195.97	124.29	58.897				
19,500.00	12,637.00	21,341.00	13,038.03	109.47	121.71	-97.322	-508.38	2,699.85	7,410.68	7,286.75	123.93	59.797				
19,600.00	12,637.00	21,341.00	13,038.03	110.84	121.71	-97.322	-508.38	2,699.85	7,501.33	7,377.75	123.58	60.698				
19,700.00	12,637.00	21,341.00	13,038.03	112.20	121.71	-97.322	-508.38	2,699.85	7,592.23	7,468.98	123.25	61.601				
19,800.00	12,637.00	21,341.00	13,038.03	113.57	121.71	-97.322	-508.38	2,699.85	7,683.34	7,560.42	122.92	62.505				
19,900.00	12,637.00	21,341.00	13,038.03	114.95	121.71	-97.322	-508.38	2,699.85	7,774.68	7,652.07	122.61	63.411				
20,000.00	12,637.00	21,341.00	13,038.03	116.32	121.71	-97.322	-508.38	2,699.85	7,866.23	7,743.92	122.30	64.317				
20,100.00	12,637.00	21,341.00	13,038.03	117.69	121.71	-97.322	-508.38	2,699.85	7,957.98	7,835.97	122.01	65.225				
20,200.00	12,637.00	21,341.00	13,038.03	119.07	121.71	-97.322	-508.38	2,699.85	8,049.92	7,928.20	121.72	66.134				
20,300.00	12,637.00	21,341.00	13,038.03	120.45	121.71	-97.322	-508.38	2,699.85	8,142.06	8,020.62	121.45	67.043				
20,400.00	12,637.00	21,341.00	13,038.03	121.83	121.71	-97.322	-508.38	2,699.85	8,234.38	8,113.20	121.18	67.953				
20,500.00	12,637.00	21,341.00	13,038.03	123.21	121.71	-97.322	-508.38	2,699.85	8,326.88	8,205.96	120.92	68.863				
20,600.00	12,637.00	21,341.00	13,038.03	124.59	121.71	-97.322	-508.38	2,699.85	8,419.55	8,298.88	120.67	69.774				
20,700.00	12,637.00	21,341.00	13,038.03	125.97	121.71	-97.322	-508.38	2,699.85	8,512.38	8,391.95	120.43	70.685				
20,800.00	12,637.00	21,341.00	13,038.03	127.35	121.71	-97.322	-508.38	2,699.85	8,605.38	8,485.18	120.19	71.596				
20,900.00	12,637.00	21,341.00	13,038.03	128.74	121.71	-97.322	-508.38	2,699.85	8,698.53	8,578.56	119.97	72.507				
21,000.00	12,637.00	21,341.00	13,038.03	130.12	121.71	-97.322	-508.38	2,699.85	8,791.83	8,672.08	119.75	73.417				
21,100.00	12,637.00	21,341.00	13,038.03	131.51	121.71	-97.322	-508.38	2,699.85	8,885.28	8,765.74	119.54	74.328				
21,200.00	12,637.00	21,341.00	13,038.03	132.90	121.71	-97.322	-508.38	2,699.85	8,978.87	8,859.53	119.34	75.239				
21,300.00	12,637.00	21,341.00	13,038.03	134.29	121.71	-97.322	-508.38	2,699.85	9,072.59	8,953.45	119.14	76.149				
21,400.00	12,637.00	21,341.00	13,038.03	135.68	121.71	-97.322	-508.38	2,699.85	9,166.45	9,047.49	118.96	77.058				
21,500.00	12,637.00	21,341.00	13,038.03	137.07	121.71	-97.322	-508.38	2,699.85	9,260.44	9,141.66	118.77	77.967				
21,600.00	12,637.00	21,341.00	13,038.03	138.46	121.71	-97.322	-508.38	2,699.85	9,354.55	9,235.95	118.60	78.875				
21,700.00	12,637.00	21,341.00	13,038.03	139.85	121.71	-97.322	-508.38	2,699.85	9,448.78	9,330.35	118.43	79.783				
21,800.00	12,637.00	21,341.00	13,038.03	141.25	121.71	-97.322	-508.38	2,699.85	9,543.13	9,424.86	118.27	80.690				
21,900.00	12,637.00	21,341.00	13,038.03	142.64	121.71	-97.322	-508.38	2,699.85	9,637.59	9,519.48	118.11	81.596				
22,000.00	12,637.00	21,341.00	13,038.03	144.04	121.71	-97.322	-508.38	2,699.85	9,732.17	9,614.20	117.96	82.501				
22,100.00	12,637.00	21,341.00	13,038.03	145.43	121.71	-97.322	-508.38	2,699.85	9,826.85	9,709.03	117.82	83.405				
22,200.00	12,637.00	21,341.00	13,038.03	146.83	121.71	-97.322	-508.38	2,699.85	9,921.63	9,803.95	117.68	84.308				
22,300.00	12,637.00	21,341.00	13,038.03	148.23	121.71	-97.322	-508.38	2,699.85	10,016.52	9,898.97	117.55	85.210				
22,400.00	12,637.00	21,341.00	13,038.03	149.63	121.71	-97.322	-508.38	2,699.85	10,111.51	9,994.08	117.42	86.111				
22,500.00	12,637.00	21,341.00	13,038.03	151.02	121.71	-97.322	-508.38	2,699.85	10,206.59	10,089.28	117.30	87.010				
22,600.00	12,637.00	21,341.00	13,038.03	152.42	121.71	-97.322	-508.38	2,699.85	10,301.76	10,184.58	117.19	87.908				
22,700.00	12,637.00	21,341.00	13,038.03	153.83	121.71	-97.322	-508.38	2,699.85	10,397.03	10,279.95	117.08	88.805				
22,800.00	12,637.00	21,341.00	13,038.03	155.23	121.71	-97.322	-508.38	2,699.85	10,492.38	10,375.41	116.97	89.700				
22,900.00	12,637.00	21,341.00	13,038.03	156.63	121.71	-97.322	-508.38	2,699.85	10,587.82	10,470.95	116.87	90.594				
23,000.00	12,637.00	21,341.00	13,038.03	158.03	121.71	-97.322	-508.38	2,699.85	10,683.34	10,566.57	116.78	91.487				
23,100.00	12,637.00	21,341.00	13,038.03	159.43	121.71	-97.322	-508.38	2,699.85	10,778.95	10,662.26	116.68	92.377				
23,124.22	12,637.00	21,341.00	13,038.03	159.77	121.71	-97.322	-508.38	2,699.85	10,802.11	10,685.45	116.66	92.593				

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 214H - OH / 68221 - Surveys (H&P 474)													Offset Site Error: 0.00 usft
Survey Program: 179-MWD+HDGM													Offset Well Error: 1.00 usft
Reference													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	2.00	1.00	1.00	90.115	-5.04	2,522.34	2,522.35				
100.00	100.00	109.29	111.29	1.08	1.01	90.115	-5.04	2,522.10	2,522.13	2,520.03	2.10	1,202.150	
200.00	200.00	216.94	218.94	1.60	1.08	90.115	-5.04	2,521.41	2,521.48	2,518.80	2.68	941.131	
300.00	300.00	319.86	321.86	2.01	1.27	90.117	-5.15	2,520.60	2,520.70	2,517.42	3.28	769.268	
400.00	400.00	425.52	427.51	2.35	1.53	90.122	-5.37	2,519.51	2,519.67	2,515.79	3.88	649.091	
500.00	500.00	519.89	521.87	2.65	1.80	90.128	-5.64	2,518.54	2,518.64	2,514.19	4.45	565.646	
600.00	600.00	616.51	618.49	2.93	2.10	90.137	-6.00	2,517.84	2,517.92	2,512.90	5.02	501.402	
700.00	700.00	715.98	717.96	3.18	2.41	90.142	-6.25	2,517.08	2,517.15	2,511.56	5.59	450.132	
800.00	800.00	808.59	810.56	3.41	2.72	90.152	-6.67	2,516.53	2,516.56	2,510.43	6.13	410.421	
900.00	900.00	905.02	906.99	3.64	3.04	90.159	-6.97	2,516.24	2,516.26	2,509.58	6.68	376.943	
1,000.00	1,000.00	1,002.38	1,004.35	3.85	3.37	90.168	-7.39	2,516.00	2,516.01	2,508.80	7.21	348.763	
1,100.00	1,100.00	1,112.03	1,114.00	4.05	3.74	90.179	-7.88	2,515.68	2,515.73	2,507.94	7.79	322.971	
1,200.00	1,200.00	1,198.84	1,200.81	4.24	4.04	90.196	-8.63	2,515.35	2,515.36	2,507.09	8.28	303.843	
1,204.63	1,204.63	1,202.66	1,204.63	4.25	4.05	90.197	-8.67	2,515.35	2,515.36	2,507.06	8.30	303.051	
1,300.00	1,300.00	1,284.92	1,286.88	4.43	4.33	90.223	-9.80	2,515.60	2,515.65	2,506.90	8.76	287.261	
1,400.00	1,400.00	1,383.08	1,385.02	4.61	4.66	90.264	-11.60	2,516.22	2,516.29	2,507.02	9.27	271.422	
1,500.00	1,500.00	1,500.60	1,502.53	4.78	5.07	90.306	-13.44	2,516.59	2,516.62	2,506.77	9.85	255.477	
1,504.54	1,504.54	1,506.37	1,508.30	4.79	5.09	-160.228	-13.51	2,516.58	2,516.62	2,506.74	9.88	254.668	
1,600.00	1,599.98	1,637.62	1,639.54	5.03	5.55	-160.226	-14.18	2,515.49	2,517.48	2,506.91	10.58	238.047	
1,629.90	1,629.86	1,676.44	1,678.34	5.06	5.68	-160.235	-14.10	2,514.82	2,518.09	2,507.36	10.74	234.476	
1,700.00	1,699.88	1,767.93	1,769.81	5.14	6.00	-160.278	-13.61	2,512.66	2,519.43	2,508.30	11.13	226.316	
1,800.00	1,799.78	1,907.47	1,909.26	5.31	6.49	-160.340	-12.97	2,507.78	2,520.22	2,508.44	11.78	214.025	
1,900.00	1,899.68	2,005.77	2,007.47	5.50	6.83	-160.387	-12.41	2,503.50	2,520.14	2,507.83	12.30	204.830	
2,000.00	1,999.58	2,110.17	2,111.77	5.70	7.20	-160.439	-11.70	2,498.94	2,520.04	2,507.18	12.86	195.887	
2,100.00	2,099.47	2,215.27	2,216.76	5.91	7.57	-160.492	-10.98	2,494.24	2,519.84	2,506.40	13.44	187.489	
2,200.00	2,199.37	2,356.00	2,357.28	6.14	8.07	-160.541	-10.92	2,486.61	2,518.71	2,504.56	14.15	178.048	
2,300.00	2,299.27	2,456.98	2,458.04	6.37	8.44	-160.557	-11.76	2,480.07	2,516.50	2,501.77	14.73	170.851	
2,400.00	2,399.16	2,553.19	2,554.06	6.61	8.78	-160.573	-12.49	2,474.11	2,514.58	2,499.27	15.30	164.303	
2,500.00	2,499.06	2,650.52	2,651.21	6.86	9.13	-160.590	-13.23	2,468.16	2,512.73	2,496.84	15.89	158.126	
2,600.00	2,598.96	2,741.36	2,741.89	7.12	9.46	-160.604	-13.97	2,462.80	2,511.11	2,494.65	16.46	152.544	
2,700.00	2,698.86	2,831.43	2,831.82	7.38	9.79	-160.619	-14.70	2,457.86	2,509.89	2,492.86	17.04	147.335	
2,800.00	2,798.75	2,927.60	2,927.86	7.65	10.13	-160.636	-15.40	2,452.87	2,508.98	2,491.35	17.63	142.274	
2,900.00	2,898.65	3,038.38	3,038.48	7.92	10.53	-160.650	-16.47	2,446.99	2,507.96	2,489.67	18.29	137.126	
3,000.00	2,998.55	3,136.48	3,136.41	8.20	10.89	-160.650	-17.96	2,441.54	2,506.67	2,487.76	18.91	132.592	
3,100.00	3,098.44	3,229.07	3,228.86	8.48	11.23	-160.646	-19.50	2,436.58	2,505.59	2,486.08	19.51	128.453	
3,200.00	3,198.34	3,316.69	3,316.36	8.77	11.54	-160.642	-21.03	2,432.23	2,504.90	2,484.81	20.09	124.667	
3,274.77	3,273.03	3,380.57	3,380.16	8.98	11.78	-160.637	-22.20	2,429.36	2,504.73	2,484.20	20.53	122.018	
3,300.00	3,298.24	3,402.00	3,401.57	9.05	11.85	-160.636	-22.59	2,428.46	2,504.75	2,484.08	20.67	121.155	
3,400.00	3,398.14	3,480.03	3,479.53	9.35	12.14	-160.631	-23.95	2,425.55	2,505.31	2,484.07	21.23	118.002	
3,500.00	3,498.03	3,566.75	3,566.20	9.64	12.45	-160.631	-25.26	2,423.08	2,506.71	2,484.89	21.82	114.879	
3,600.00	3,597.93	3,662.92	3,662.34	9.94	12.79	-160.645	-26.13	2,420.52	2,508.32	2,485.88	22.45	111.749	
3,700.00	3,697.83	3,757.76	3,757.14	10.23	13.13	-160.644	-27.57	2,418.19	2,510.14	2,487.08	23.07	108.812	
3,800.00	3,797.72	3,862.16	3,861.49	10.53	13.51	-160.635	-29.54	2,415.72	2,512.05	2,488.33	23.73	105.871	
3,900.00	3,897.62	3,981.29	3,980.55	10.84	13.94	-160.632	-31.48	2,412.29	2,513.45	2,489.01	24.44	102.835	
4,000.00	3,997.52	4,077.41	4,076.61	11.14	14.28	-160.631	-32.99	2,409.15	2,514.47	2,489.39	25.08	100.277	
4,100.00	4,097.42	4,169.48	4,168.63	11.45	14.62	-160.628	-34.49	2,406.40	2,515.75	2,490.06	25.70	97.906	
4,200.00	4,197.31	4,255.87	4,254.98	11.75	14.93	-160.625	-35.94	2,404.18	2,517.46	2,491.16	26.30	95.736	
4,300.00	4,297.21	4,371.07	4,370.12	12.06	15.34	-160.621	-37.86	2,401.32	2,519.27	2,492.27	27.00	93.298	
4,400.00	4,397.11	4,479.67	4,478.66	12.37	15.73	-160.622	-39.43	2,397.85	2,520.34	2,492.65	27.69	91.032	
4,500.00	4,497.01	4,558.00	4,556.95	12.68	16.02	-160.620	-40.70	2,395.73	2,521.88	2,493.62	28.26	89.234	
4,600.00	4,596.90	4,638.81	4,637.73	13.00	16.31	-160.611	-42.33	2,394.19	2,524.24	2,495.40	28.84	87.514	
4,700.00	4,696.80	4,763.51	4,762.36	13.31	16.75	-160.583	-45.45	2,391.48	2,526.32	2,496.73	29.59	85.383	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 214H - OH / 68221 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 179-MWD+HDCM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,800.00	4,796.70	4,842.00	4,840.81	13.62	17.03	-160.564	-47.45	2,389.95	2,528.60	2,498.43	30.16	83.830	
4,900.00	4,896.59	4,904.77	4,903.55	13.94	17.25	-160.549	-49.07	2,389.45	2,532.00	2,501.33	30.67	82.546	
5,000.00	4,996.49	5,020.51	5,019.25	14.25	17.66	-160.516	-52.28	2,389.18	2,536.10	2,504.71	31.38	80.813	
5,100.00	5,096.39	5,138.92	5,137.62	14.57	18.08	-160.490	-55.20	2,387.68	2,539.10	2,506.99	32.11	79.084	
5,200.00	5,196.29	5,255.78	5,254.42	14.89	18.50	-160.482	-57.36	2,385.17	2,541.19	2,508.37	32.83	77.411	
5,300.00	5,296.18	5,344.35	5,342.96	15.20	18.82	-160.473	-59.06	2,383.34	2,543.41	2,509.96	33.44	76.049	
5,400.00	5,396.08	5,705.65	5,703.20	15.52	20.13	-160.447	-65.67	2,360.25	2,542.79	2,507.85	34.94	72.777	
5,500.00	5,495.98	5,810.66	5,807.38	15.84	20.53	-160.428	-68.09	2,347.21	2,534.61	2,498.99	35.61	71.167	
5,600.00	5,595.87	5,897.20	5,893.27	16.16	20.85	-160.412	-70.08	2,336.86	2,526.89	2,490.65	36.24	69.722	
5,700.00	5,695.77	5,994.30	5,989.67	16.48	21.21	-160.391	-72.44	2,325.51	2,519.45	2,482.56	36.90	68.281	
5,800.00	5,795.67	6,093.66	6,088.33	16.80	21.59	-160.369	-74.87	2,313.90	2,512.03	2,474.47	37.56	66.879	
5,900.00	5,895.57	6,186.23	6,180.23	17.12	21.94	-160.343	-77.37	2,303.19	2,504.72	2,466.52	38.21	65.558	
6,000.00	5,995.46	6,300.81	6,294.02	17.44	22.37	-160.301	-80.90	2,290.15	2,497.65	2,458.74	38.91	64.189	
6,100.00	6,095.36	6,411.07	6,403.31	17.76	22.79	-160.219	-86.05	2,276.52	2,489.52	2,449.92	39.60	62.863	
6,200.00	6,195.26	6,504.91	6,496.32	18.09	23.15	-160.142	-90.74	2,264.99	2,481.50	2,441.25	40.25	61.649	
6,300.00	6,295.16	6,596.29	6,586.93	18.41	23.50	-160.069	-95.24	2,254.02	2,473.77	2,432.88	40.90	60.489	
6,400.00	6,395.05	6,693.18	6,683.03	18.73	23.87	-159.990	-100.02	2,242.64	2,466.31	2,424.75	41.55	59.351	
6,500.00	6,494.95	6,795.00	6,784.01	19.06	24.26	-159.906	-105.07	2,230.68	2,458.84	2,416.62	42.23	58.231	
6,600.00	6,594.85	6,893.78	6,881.99	19.38	24.63	-159.826	-109.87	2,219.03	2,451.33	2,408.44	42.89	57.154	
6,700.00	6,694.74	6,986.95	6,974.41	19.70	24.99	-159.750	-114.45	2,208.18	2,443.98	2,400.44	43.54	56.133	
6,800.00	6,794.64	7,076.07	7,062.85	20.03	25.33	-159.676	-118.82	2,198.11	2,436.98	2,392.81	44.18	55.163	
6,900.00	6,894.54	7,165.41	7,151.57	20.35	25.68	-159.606	-123.06	2,188.41	2,430.43	2,385.61	44.82	54.231	
7,000.00	6,994.44	7,305.55	7,290.69	20.68	26.21	-159.528	-128.28	2,172.44	2,423.35	2,377.76	45.59	53.154	
7,100.00	7,094.33	7,408.53	7,392.84	21.00	26.61	-159.500	-130.84	2,159.62	2,415.16	2,368.89	46.27	52.199	
7,200.00	7,194.23	7,496.20	7,479.83	21.33	26.95	-159.477	-133.00	2,148.96	2,407.28	2,360.37	46.91	51.321	
7,300.00	7,294.13	7,583.36	7,566.36	21.65	27.28	-159.458	-135.00	2,138.79	2,399.88	2,352.34	47.54	50.478	
7,400.00	7,394.02	7,673.82	7,656.25	21.98	27.62	-159.444	-136.81	2,128.79	2,393.08	2,344.90	48.19	49.661	
7,500.00	7,493.92	7,813.19	7,794.56	22.30	28.16	-159.394	-140.78	2,112.08	2,385.31	2,336.35	48.96	48.720	
7,600.00	7,593.82	7,896.66	7,877.29	22.63	28.48	-159.340	-144.12	2,101.55	2,377.04	2,327.45	49.59	47.936	
7,700.00	7,693.72	7,966.49	7,946.62	22.95	28.75	-159.296	-146.89	2,093.63	2,369.99	2,319.81	50.18	47.231	
7,800.00	7,793.61	8,043.03	8,022.70	23.28	29.05	-159.252	-149.77	2,085.82	2,364.08	2,313.30	50.78	46.552	
7,900.00	7,893.51	8,168.96	8,147.82	23.61	29.53	-159.165	-155.06	2,072.51	2,357.77	2,306.25	51.52	45.760	
8,000.00	7,993.41	8,251.56	8,229.86	23.93	29.85	-159.100	-158.82	2,063.71	2,351.47	2,299.32	52.15	45.094	
8,100.00	8,093.31	8,323.00	8,300.92	24.26	30.12	-159.054	-161.68	2,056.95	2,346.30	2,293.57	52.73	44.494	
8,200.00	8,193.20	8,496.25	8,472.99	24.59	30.79	-158.964	-167.66	2,037.77	2,339.11	2,285.51	53.60	43.638	
8,300.00	8,293.10	8,568.09	8,544.32	24.92	31.07	-158.932	-169.88	2,029.43	2,331.85	2,277.65	54.20	43.022	
8,400.00	8,393.00	8,639.37	8,615.20	25.24	31.34	-158.906	-171.89	2,022.19	2,325.97	2,271.17	54.79	42.451	
8,500.00	8,492.89	8,718.61	8,694.08	25.57	31.64	-158.886	-173.80	2,014.93	2,321.09	2,265.69	55.40	41.895	
8,600.00	8,592.79	8,796.00	8,771.18	25.90	31.93	-158.874	-175.37	2,008.45	2,317.03	2,261.02	56.00	41.373	
8,700.00	8,692.69	8,891.00	8,865.89	26.23	32.29	-158.866	-177.04	2,001.18	2,313.65	2,257.00	56.66	40.836	
8,800.00	8,792.59	8,980.82	8,955.46	26.55	32.62	-158.861	-178.49	1,994.72	2,310.72	2,253.43	57.30	40.330	
8,900.00	8,892.48	9,068.55	9,042.98	26.88	32.95	-158.860	-179.81	1,988.72	2,308.16	2,250.23	57.92	39.847	
9,000.00	8,992.38	9,145.75	9,120.03	27.21	33.23	-158.863	-180.80	1,984.01	2,306.33	2,247.81	58.52	39.413	
9,100.00	9,092.28	9,225.86	9,200.03	27.54	33.52	-158.871	-181.66	1,979.93	2,305.48	2,246.37	59.11	39.000	
9,163.41	9,155.63	9,278.10	9,252.22	27.75	33.71	-158.881	-182.06	1,977.60	2,305.35	2,245.85	59.50	38.747 CC	
9,200.00	9,192.17	9,307.61	9,281.69	27.87	33.82	-158.888	-182.24	1,976.40	2,305.42	2,245.71	59.72	38.606 ES	
9,300.00	9,292.07	9,363.00	9,337.05	28.19	34.02	-158.903	-182.48	1,974.40	2,306.36	2,246.15	60.21	38.306	
9,400.00	9,391.97	9,434.38	9,408.41	28.52	34.26	-158.925	-182.73	1,972.96	2,308.77	2,248.03	60.75	38.005	
9,500.00	9,491.87	9,499.95	9,473.98	28.85	34.48	-158.945	-182.98	1,973.08	2,313.14	2,251.89	61.25	37.765	
9,600.00	9,591.76	9,578.08	9,552.11	29.18	34.73	-158.968	-183.33	1,974.10	2,318.67	2,256.88	61.79	37.522	
9,700.00	9,691.66	9,667.23	9,641.23	29.51	35.01	-158.993	-183.83	1,975.84	2,324.87	2,262.49	62.38	37.269	
9,800.00	9,791.56	9,767.46	9,741.44	29.84	35.33	-159.012	-184.73	1,978.06	2,331.34	2,268.32	63.02	36.994	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 214H - OH / 68221 - Surveys (H&P 474)													Offset Site Error:	0.00 usft	
Survey Program:		179-MWD+HDCM		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
9,900.00	9,891.45	9,876.18	9,850.12	30.17	35.68	-159.013	-186.53	1,980.05	2,337.43	2,273.73	63.70	36.695			
10,000.00	9,991.35	10,024.14	9,998.05	30.50	36.16	-159.021	-188.65	1,981.69	2,343.00	2,278.45	64.56	36.294			
10,100.00	10,091.25	10,120.00	10,093.91	30.83	36.48	-159.078	-187.88	1,981.55	2,347.07	2,281.88	65.19	36.002			
10,200.00	10,191.15	10,217.58	10,191.48	31.15	36.80	-159.148	-186.55	1,981.53	2,351.25	2,285.41	65.83	35.716			
10,300.00	10,291.04	10,310.00	10,283.89	31.48	37.10	-159.210	-185.51	1,981.84	2,355.78	2,289.34	66.45	35.453			
10,400.00	10,390.94	10,405.39	10,379.28	31.81	37.41	-159.261	-184.96	1,982.39	2,360.58	2,293.51	67.07	35.196			
10,500.00	10,490.84	10,501.34	10,475.22	32.14	37.72	-159.287	-185.45	1,982.92	2,365.39	2,297.69	67.70	34.941			
10,600.00	10,590.74	10,558.17	10,531.86	32.47	37.91	-159.211	-189.51	1,983.62	2,371.09	2,302.95	68.14	34.795			
10,700.00	10,690.63	10,608.00	10,580.49	32.80	38.08	-158.976	-200.06	1,985.09	2,378.87	2,310.35	68.52	34.718			
10,800.00	10,790.53	10,655.00	10,624.84	33.13	38.24	-158.625	-215.39	1,987.36	2,389.02	2,320.18	68.84	34.704			
10,900.00	10,890.43	10,820.82	10,763.53	33.46	38.76	-156.557	-304.11	1,992.07	2,399.95	2,330.46	69.50	34.533			
11,000.00	10,990.32	10,845.00	10,780.65	33.79	38.84	-156.156	-321.18	1,992.12	2,411.15	2,341.49	69.66	34.614			
11,100.00	11,090.22	10,863.09	10,792.83	34.12	38.89	-155.843	-334.55	1,992.42	2,425.79	2,356.04	69.75	34.780			
11,200.00	11,190.12	10,892.00	10,811.05	34.45	38.98	-155.319	-356.97	1,993.27	2,443.91	2,374.10	69.81	35.008			
11,300.00	11,290.02	10,909.44	10,821.32	34.78	39.03	-154.990	-371.05	1,993.90	2,465.31	2,395.52	69.80	35.322			
11,400.00	11,389.91	10,939.00	10,837.54	35.11	39.12	-154.414	-395.74	1,994.92	2,489.91	2,420.15	69.76	35.691			
11,444.32	11,434.18	10,957.51	10,846.98	35.25	39.18	-154.043	-411.65	1,995.47	2,501.79	2,432.05	69.74	35.872			
11,500.00	11,489.83	10,980.36	10,857.97	35.42	39.25	-153.716	-431.67	1,995.98	2,517.04	2,447.34	69.69	36.115			
11,574.22	11,564.04	11,011.49	10,871.74	35.53	39.35	97.281	-459.59	1,996.34	2,537.31	2,467.79	69.51	36.502			
11,600.00	11,589.82	11,021.27	10,875.77	35.53	39.38	97.489	-468.49	1,996.36	2,544.44	2,475.03	69.41	36.660			
11,700.00	11,689.82	11,060.86	10,891.03	35.54	39.51	98.338	-505.02	1,996.05	2,574.00	2,505.00	69.01	37.301			
11,800.00	11,789.82	11,093.99	10,903.09	35.56	39.63	99.053	-535.88	1,995.50	2,606.51	2,537.93	68.58	38.005			
11,900.00	11,889.82	11,117.66	10,910.97	35.58	39.71	99.570	-558.19	1,994.87	2,642.05	2,573.92	68.13	38.779			
12,000.00	11,989.82	11,142.41	10,918.54	35.60	39.81	100.114	-581.73	1,994.01	2,680.58	2,612.90	67.68	39.609			
12,074.22	12,064.04	11,161.96	10,924.29	35.61	39.88	100.546	-600.41	1,993.23	2,711.01	2,643.67	67.34	40.260			
12,100.00	12,089.81	11,168.94	10,926.29	35.62	39.91	-77.562	-607.09	1,992.93	2,721.84	2,654.62	67.22	40.494			
12,150.00	12,139.60	11,175.00	10,928.01	35.69	39.93	-75.204	-612.89	1,992.67	2,742.68	2,675.72	66.97	40.955			
12,200.00	12,188.82	11,175.00	10,928.01	35.77	39.93	-73.032	-612.89	1,992.67	2,763.27	2,696.54	66.72	41.414			
12,250.00	12,237.08	11,193.62	10,933.02	35.86	40.01	-70.598	-630.80	1,991.84	2,783.24	2,716.71	66.53	41.836			
12,300.00	12,284.02	11,202.34	10,935.19	35.96	40.04	-68.475	-639.24	1,991.46	2,802.63	2,736.30	66.33	42.254			
12,350.00	12,329.30	11,222.00	10,939.66	36.06	40.12	-66.314	-658.37	1,990.62	2,821.26	2,755.10	66.16	42.640			
12,400.00	12,372.55	11,222.00	10,939.66	36.17	40.12	-64.609	-658.37	1,990.62	2,838.81	2,772.82	65.99	43.019			
12,450.00	12,413.46	11,222.00	10,939.66	36.28	40.12	-63.034	-658.37	1,990.62	2,855.37	2,789.53	65.84	43.371			
12,500.00	12,451.70	11,240.13	10,943.24	36.40	40.19	-61.388	-676.13	1,989.88	2,870.61	2,804.88	65.73	43.671			
12,550.00	12,487.00	11,249.86	10,944.93	36.51	40.23	-60.015	-685.70	1,989.51	2,884.57	2,818.93	65.64	43.944			
12,600.00	12,519.08	11,269.00	10,947.80	36.63	40.31	-58.724	-704.61	1,988.85	2,897.15	2,831.56	65.59	44.172			
12,650.00	12,547.69	11,269.00	10,947.80	36.75	40.31	-57.772	-704.61	1,988.85	2,908.08	2,842.54	65.54	44.373			
12,700.00	12,572.62	11,269.00	10,947.80	36.86	40.31	-56.960	-704.61	1,988.85	2,917.55	2,852.03	65.51	44.533			
12,750.00	12,593.68	11,289.32	10,950.15	36.99	40.40	-56.187	-724.78	1,988.28	2,925.17	2,859.62	65.55	44.626			
12,800.00	12,610.72	11,316.00	10,952.16	37.11	40.50	-55.574	-751.38	1,987.80	2,931.39	2,865.77	65.62	44.675			
12,850.00	12,623.59	11,316.00	10,952.16	37.23	40.50	-55.242	-751.38	1,987.80	2,935.41	2,869.72	65.69	44.688			
12,900.00	12,632.20	11,316.00	10,952.16	37.36	40.50	-55.046	-751.38	1,987.80	2,937.79	2,872.00	65.79	44.656			
12,950.00	12,636.49	11,357.85	10,953.93	37.49	40.68	-54.975	-793.19	1,987.19	2,938.06	2,872.09	65.97	44.535			
12,974.22	12,637.00	11,373.31	10,954.36	37.55	40.74	-55.024	-808.63	1,986.92	2,937.42	2,871.37	66.05	44.472			
13,000.00	12,637.00	11,395.00	10,954.78	37.62	40.84	-55.024	-830.32	1,986.49	2,936.50	2,870.36	66.14	44.398			
13,100.00	12,637.00	11,480.82	10,955.57	37.92	41.23	-55.005	-916.11	1,984.54	2,933.27	2,866.74	66.54	44.085			
13,200.00	12,637.00	11,583.71	10,955.72	38.28	41.73	-54.964	-1,018.97	1,981.72	2,930.13	2,863.09	67.04	43.707			
13,300.00	12,637.00	11,647.65	10,955.70	38.69	42.07	-54.941	-1,082.89	1,980.32	2,927.53	2,859.99	67.53	43.349			
13,400.00	12,637.00	11,710.92	10,955.77	39.15	42.41	-54.931	-1,146.16	1,979.95	2,926.18	2,858.09	68.08	42.980			
13,457.34	12,637.00	11,747.09	10,955.67	39.44	42.62	-54.927	-1,182.33	1,980.08	2,925.97	2,857.54	68.42	42.762			
13,500.00	12,637.00	11,774.01	10,955.50	39.66	42.77	-54.924	-1,209.25	1,980.32	2,926.08	2,857.41	68.68	42.607			
13,600.00	12,637.00	11,957.63	10,959.94	40.23	43.92	-55.001	-1,392.77	1,982.68	2,924.71	2,854.83	69.88	41.851			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 214H - OH / 68221 - Surveys (H&P 474)													Offset Site Error:	0.00 usft	
Survey Program:		179-MWD+HDCM		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
13,700.00	12,637.00	12,035.54	10,963.68	40.84	44.45	-55.069	-1,470.58	1,984.18	2,922.73	2,851.99	70.75	41.313			
13,800.00	12,637.00	12,118.50	10,967.14	41.49	45.03	-55.138	-1,553.44	1,986.19	2,921.50	2,849.81	71.69	40.750			
13,900.00	12,637.00	12,201.54	10,970.18	42.20	45.63	-55.203	-1,636.39	1,988.41	2,920.80	2,848.10	72.70	40.177			
13,964.38	12,637.00	12,254.49	10,971.81	42.68	46.03	-55.240	-1,689.29	1,989.96	2,920.68	2,847.31	73.37	39.806			
14,000.00	12,637.00	12,286.26	10,972.67	42.94	46.27	-55.261	-1,721.05	1,990.90	2,920.70	2,846.94	73.77	39.593			
14,100.00	12,637.00	12,374.26	10,974.55	43.73	46.96	-55.310	-1,808.98	1,993.42	2,921.03	2,846.12	74.91	38.995			
14,200.00	12,637.00	12,457.65	10,975.47	44.55	47.63	-55.341	-1,892.34	1,995.69	2,921.83	2,845.76	76.06	38.415			
14,300.00	12,637.00	12,531.00	10,974.86	45.41	48.24	-55.341	-1,965.67	1,997.34	2,923.34	2,846.17	77.17	37.883			
14,400.00	12,637.00	12,607.86	10,973.03	46.30	48.89	-55.322	-2,042.49	1,999.03	2,925.70	2,847.37	78.33	37.350			
14,500.00	12,637.00	12,758.82	10,970.98	47.23	50.22	-55.311	-2,193.38	2,002.52	2,927.51	2,847.36	80.15	36.527			
14,600.00	12,637.00	12,846.08	10,970.78	48.18	51.01	-55.321	-2,280.61	2,004.58	2,928.77	2,847.25	81.52	35.928			
14,700.00	12,637.00	12,930.35	10,970.36	49.16	51.79	-55.331	-2,364.85	2,006.99	2,930.57	2,847.67	82.91	35.348			
14,800.00	12,637.00	13,075.71	10,968.98	50.17	53.18	-55.334	-2,510.15	2,010.64	2,932.60	2,847.70	84.89	34.545			
14,900.00	12,637.00	13,171.52	10,967.97	51.19	54.12	-55.313	-2,605.95	2,011.20	2,932.87	2,846.40	86.46	33.921			
15,000.00	12,637.00	13,245.61	10,966.24	52.25	54.86	-55.283	-2,680.03	2,011.70	2,933.93	2,846.08	87.85	33.396			
15,100.00	12,637.00	13,363.03	10,963.92	53.32	56.06	-55.247	-2,797.40	2,013.04	2,935.18	2,845.48	89.70	32.721			
15,200.00	12,637.00	13,512.84	10,967.46	54.41	57.63	-55.325	-2,947.11	2,016.39	2,934.65	2,842.62	92.02	31.890			
15,300.00	12,637.00	13,614.21	10,970.96	55.51	58.71	-55.396	-3,048.39	2,018.79	2,933.81	2,839.92	93.89	31.246			
15,400.00	12,637.00	13,710.99	10,973.62	56.64	59.75	-55.450	-3,145.11	2,020.73	2,933.08	2,837.34	95.74	30.637			
15,500.00	12,637.00	13,806.04	10,975.82	57.78	60.79	-55.494	-3,240.12	2,022.44	2,932.43	2,834.85	97.58	30.051			
15,600.00	12,637.00	13,900.39	10,977.07	58.93	61.84	-55.519	-3,334.45	2,023.79	2,932.03	2,832.61	99.43	29.489			
15,700.00	12,637.00	13,993.33	10,977.79	60.10	62.87	-55.532	-3,427.38	2,024.91	2,931.77	2,830.49	101.28	28.948			
15,720.77	12,637.00	14,011.37	10,977.73	60.34	63.08	-55.531	-3,445.42	2,025.04	2,931.76	2,830.11	101.64	28.843			
15,800.00	12,637.00	14,083.18	10,976.74	61.28	63.89	-55.509	-3,517.22	2,025.21	2,931.88	2,828.80	103.08	28.444			
15,900.00	12,637.00	14,172.30	10,974.40	62.47	64.91	-55.458	-3,606.31	2,024.90	2,932.27	2,827.40	104.86	27.963			
16,000.00	12,637.00	14,297.92	10,971.32	63.67	66.35	-55.390	-3,731.89	2,024.51	2,932.61	2,825.52	107.09	27.384			
16,100.00	12,637.00	14,424.00	10,971.41	64.88	67.82	-55.374	-3,857.95	2,024.18	2,931.43	2,822.04	109.39	26.797			
16,200.00	12,637.00	14,521.04	10,971.38	66.11	68.96	-55.359	-3,954.99	2,023.88	2,930.37	2,819.00	111.38	26.311			
16,300.00	12,637.00	14,622.53	10,970.61	67.34	70.16	-55.326	-4,056.48	2,023.02	2,929.29	2,815.87	113.41	25.829			
16,400.00	12,637.00	14,707.00	10,969.11	68.58	71.17	-55.281	-4,140.93	2,021.95	2,928.44	2,813.20	115.24	25.411			
16,496.01	12,637.00	14,786.85	10,966.80	69.77	72.13	-55.222	-4,220.74	2,020.85	2,928.15	2,811.17	116.98	25.031			
16,500.00	12,637.00	14,790.11	10,966.69	69.82	72.17	-55.220	-4,223.99	2,020.80	2,928.15	2,811.10	117.05	25.016			
16,600.00	12,637.00	14,869.76	10,963.45	71.08	73.13	-55.146	-4,303.57	2,019.70	2,928.52	2,809.71	118.81	24.648			
16,700.00	12,637.00	15,009.80	10,957.31	72.34	74.84	-55.003	-4,443.45	2,017.09	2,928.73	2,807.45	121.29	24.147			
16,800.00	12,637.00	15,117.80	10,953.27	73.61	76.16	-54.898	-4,551.34	2,014.55	2,928.16	2,804.76	123.40	23.729			
16,900.00	12,637.00	15,237.01	10,951.53	74.88	77.63	-54.832	-4,670.51	2,012.35	2,926.62	2,800.91	125.71	23.280			
17,000.00	12,637.00	15,324.81	10,950.08	76.16	78.72	-54.780	-4,758.29	2,010.73	2,925.25	2,797.60	127.65	22.916			
17,100.00	12,637.00	15,407.46	10,947.90	77.45	79.75	-54.718	-4,840.89	2,009.13	2,924.38	2,794.86	129.52	22.579			
17,200.00	12,637.00	15,510.35	10,944.40	78.74	81.03	-54.629	-4,943.71	2,007.26	2,924.06	2,792.44	131.62	22.215			
17,300.00	12,637.00	15,618.24	10,942.23	80.04	82.39	-54.562	-5,051.56	2,005.46	2,923.03	2,789.20	133.83	21.841			
17,400.00	12,637.00	15,701.39	10,940.41	81.34	83.44	-54.511	-5,134.68	2,004.33	2,922.39	2,786.64	135.74	21.529			
17,455.32	12,637.00	15,747.00	10,939.16	82.06	84.02	-54.480	-5,180.27	2,003.81	2,922.30	2,785.51	136.79	21.364			
17,500.00	12,637.00	15,774.85	10,938.36	82.65	84.37	-54.461	-5,208.11	2,003.62	2,922.43	2,784.92	137.52	21.251			
17,600.00	12,637.00	15,842.00	10,936.58	83.96	85.22	-54.430	-5,275.23	2,004.03	2,923.63	2,784.41	139.22	21.000			
17,700.00	12,637.00	15,919.16	10,934.41	85.27	86.21	-54.401	-5,352.35	2,005.31	2,925.79	2,784.72	141.07	20.739			
17,800.00	12,637.00	16,005.03	10,931.51	86.59	87.31	-54.365	-5,438.16	2,006.99	2,928.53	2,785.49	143.04	20.473			
17,900.00	12,637.00	16,093.09	10,928.14	87.91	88.44	-54.323	-5,526.13	2,008.89	2,931.70	2,786.66	145.04	20.213			
18,000.00	12,637.00	16,193.66	10,923.50	89.24	89.74	-54.259	-5,626.58	2,010.81	2,935.14	2,787.92	147.21	19.938			
18,100.00	12,637.00	16,289.17	10,918.63	90.57	90.98	-54.188	-5,721.95	2,012.22	2,938.51	2,789.22	149.30	19.682			
18,200.00	12,637.00	16,452.98	10,911.50	91.90	93.11	-54.075	-5,885.59	2,013.88	2,941.18	2,788.81	152.37	19.303			
18,300.00	12,637.00	16,570.25	10,909.32	93.24	94.63	-54.037	-6,002.83	2,014.69	2,941.99	2,787.15	154.84	19.001			
18,400.00	12,637.00	16,666.82	10,908.78	94.58	95.90	-54.035	-6,099.39	2,016.23	2,942.79	2,785.73	157.06	18.737			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 214H - OH / 68221 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 179-MWD+HDCM												Offset Well Error:	1.00 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,500.00	12,637.00	16,751.20	10,908.04	95.92	97.00	-54.030	-6,183.75	2,017.64	2,943.87	2,784.77	159.10	18.504	
18,600.00	12,637.00	16,828.89	10,906.84	97.26	98.02	-54.020	-6,261.42	2,019.23	2,945.63	2,784.60	161.03	18.292	
18,700.00	12,637.00	16,982.04	10,903.41	98.61	100.04	-53.977	-6,414.51	2,021.75	2,947.78	2,783.72	164.06	17.968	
18,800.00	12,637.00	17,087.00	10,902.03	99.96	101.43	-53.950	-6,519.45	2,022.34	2,948.21	2,781.82	166.39	17.719	
18,900.00	12,637.00	17,218.35	10,904.19	101.31	103.17	-53.993	-6,650.76	2,024.40	2,947.65	2,778.44	169.21	17.420	
19,000.00	12,637.00	17,321.96	10,907.49	102.67	104.55	-54.058	-6,754.30	2,026.60	2,946.69	2,775.01	171.68	17.164	
19,100.00	12,637.00	17,418.60	10,910.34	104.02	105.84	-54.113	-6,850.88	2,028.47	2,945.72	2,771.68	174.04	16.925	
19,200.00	12,637.00	17,525.46	10,913.06	105.38	107.27	-54.165	-6,957.68	2,030.26	2,944.78	2,768.24	176.55	16.680	
19,300.00	12,637.00	17,617.27	10,915.30	106.74	108.50	-54.205	-7,049.46	2,031.62	2,943.75	2,764.92	178.83	16.461	
19,400.00	12,637.00	17,712.40	10,917.20	108.11	109.77	-54.241	-7,144.56	2,033.09	2,943.02	2,761.87	181.15	16.246	
19,500.00	12,637.00	17,805.91	10,918.12	109.47	111.03	-54.255	-7,238.05	2,034.02	2,942.45	2,759.03	183.42	16.042	
19,600.00	12,637.00	17,896.27	10,917.72	110.84	112.24	-54.242	-7,328.41	2,034.30	2,942.15	2,756.55	185.60	15.852	
19,700.00	12,637.00	17,993.29	10,916.52	112.20	113.54	-54.213	-7,425.42	2,034.36	2,942.11	2,754.26	187.85	15.662	
19,728.96	12,637.00	18,021.58	10,916.10	112.60	113.92	-54.203	-7,453.71	2,034.33	2,942.11	2,753.60	188.51	15.607	
19,800.00	12,637.00	18,085.59	10,915.25	113.57	114.79	-54.183	-7,517.71	2,034.45	2,942.19	2,752.15	190.04	15.482	
19,900.00	12,637.00	18,179.23	10,914.21	114.95	116.05	-54.163	-7,611.35	2,035.06	2,942.55	2,750.29	192.26	15.305	
20,000.00	12,637.00	18,264.01	10,912.83	116.32	117.19	-54.138	-7,696.11	2,035.60	2,943.22	2,748.88	194.34	15.145	
20,100.00	12,637.00	18,362.86	10,910.48	117.69	118.53	-54.097	-7,794.94	2,036.25	2,944.35	2,747.74	196.61	14.975	
20,200.00	12,637.00	18,456.23	10,909.41	119.07	119.79	-54.085	-7,888.29	2,037.60	2,945.38	2,746.53	198.85	14.812	
20,300.00	12,637.00	18,571.56	10,908.56	120.45	121.36	-54.083	-8,003.59	2,039.75	2,946.54	2,745.09	201.45	14.626	
20,400.00	12,637.00	18,723.59	10,911.01	121.83	123.43	-54.135	-8,155.58	2,042.44	2,946.14	2,741.43	204.70	14.392	
20,500.00	12,637.00	18,808.00	10,913.10	123.21	124.58	-54.172	-8,239.95	2,043.63	2,945.08	2,738.16	206.92	14.233	
20,515.25	12,637.00	18,808.00	10,913.10	123.42	124.58	-54.172	-8,239.95	2,043.63	2,945.04	2,737.99	207.05	14.224	
20,600.00	12,637.00	18,808.00	10,913.10	124.59	124.58	-54.172	-8,239.95	2,043.63	2,946.26	2,738.56	207.70	14.185	
20,700.00	12,637.00	18,808.00	10,913.10	125.97	124.58	-54.172	-8,239.95	2,043.63	2,950.83	2,742.56	208.27	14.168 SF	
20,800.00	12,637.00	18,808.00	10,913.10	127.35	124.58	-54.172	-8,239.95	2,043.63	2,958.78	2,750.15	208.63	14.182	
20,900.00	12,637.00	18,808.00	10,913.10	128.74	124.58	-54.172	-8,239.95	2,043.63	2,970.07	2,761.29	208.78	14.226	
21,000.00	12,637.00	18,808.00	10,913.10	130.12	124.58	-54.172	-8,239.95	2,043.63	2,984.67	2,775.95	208.72	14.300	
21,100.00	12,637.00	18,808.00	10,913.10	131.51	124.58	-54.172	-8,239.95	2,043.63	3,002.53	2,794.07	208.47	14.403	
21,200.00	12,637.00	18,808.00	10,913.10	132.90	124.58	-54.172	-8,239.95	2,043.63	3,023.60	2,815.58	208.02	14.535	
21,300.00	12,637.00	18,808.00	10,913.10	134.29	124.58	-54.172	-8,239.95	2,043.63	3,047.80	2,840.40	207.40	14.695	
21,400.00	12,637.00	18,808.00	10,913.10	135.68	124.58	-54.172	-8,239.95	2,043.63	3,075.07	2,868.46	206.61	14.884	
21,500.00	12,637.00	18,808.00	10,913.10	137.07	124.58	-54.172	-8,239.95	2,043.63	3,105.32	2,899.66	205.66	15.099	
21,600.00	12,637.00	18,808.00	10,913.10	138.46	124.58	-54.172	-8,239.95	2,043.63	3,138.46	2,933.90	204.57	15.342	
21,700.00	12,637.00	18,808.00	10,913.10	139.85	124.58	-54.172	-8,239.95	2,043.63	3,174.42	2,971.07	203.35	15.611	
21,800.00	12,637.00	18,808.00	10,913.10	141.25	124.58	-54.172	-8,239.95	2,043.63	3,213.08	3,011.07	202.01	15.906	
21,900.00	12,637.00	18,808.00	10,913.10	142.64	124.58	-54.172	-8,239.95	2,043.63	3,254.35	3,053.79	200.57	16.226	
22,000.00	12,637.00	18,808.00	10,913.10	144.04	124.58	-54.172	-8,239.95	2,043.63	3,298.15	3,099.11	199.04	16.571	
22,100.00	12,637.00	18,808.00	10,913.10	145.43	124.58	-54.172	-8,239.95	2,043.63	3,344.36	3,146.93	197.43	16.940	
22,200.00	12,637.00	18,808.00	10,913.10	146.83	124.58	-54.172	-8,239.95	2,043.63	3,392.88	3,197.13	195.75	17.332	
22,300.00	12,637.00	18,808.00	10,913.10	148.23	124.58	-54.172	-8,239.95	2,043.63	3,443.63	3,249.61	194.03	17.748	
22,400.00	12,637.00	18,808.00	10,913.10	149.63	124.58	-54.172	-8,239.95	2,043.63	3,496.51	3,304.25	192.26	18.187	
22,500.00	12,637.00	18,808.00	10,913.10	151.02	124.58	-54.172	-8,239.95	2,043.63	3,551.41	3,360.96	190.46	18.647	
22,600.00	12,637.00	18,808.00	10,913.10	152.42	124.58	-54.172	-8,239.95	2,043.63	3,608.25	3,419.62	188.63	19.129	
22,700.00	12,637.00	18,808.00	10,913.10	153.83	124.58	-54.172	-8,239.95	2,043.63	3,666.94	3,480.14	186.79	19.631	
22,800.00	12,637.00	18,808.00	10,913.10	155.23	124.58	-54.172	-8,239.95	2,043.63	3,727.38	3,542.43	184.95	20.154	
22,900.00	12,637.00	18,808.00	10,913.10	156.63	124.58	-54.172	-8,239.95	2,043.63	3,789.50	3,606.40	183.10	20.696	
23,000.00	12,637.00	18,808.00	10,913.10	158.03	124.58	-54.172	-8,239.95	2,043.63	3,853.22	3,671.95	181.26	21.257	
23,100.00	12,637.00	18,808.00	10,913.10	159.43	124.58	-54.172	-8,239.95	2,043.63	3,918.45	3,739.01	179.44	21.837	
23,124.22	12,637.00	18,808.00	10,913.10	159.77	124.58	-54.172	-8,239.95	2,043.63	3,934.46	3,755.47	179.00	21.981	

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:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 404H - OH / 68222 - Surveys (H&P 474)													Offset Site Error: 0.00 usft
Survey Program: 176-MWD+HDCM													Offset Well Error: 1.00 usft
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
0.00	0.00	0.00	2.00	1.00	1.00	90.095	-4.31	2,612.35	2,612.36				
100.00	100.00	100.38	102.38	1.08	1.01	90.100	-4.57	2,612.31	2,612.31	2,610.22	2.10	1,246.456	
200.00	200.00	201.09	203.08	1.60	1.06	90.117	-5.33	2,612.18	2,612.18	2,609.52	2.66	981.696	
274.39	274.39	272.40	274.39	1.90	1.17	90.132	-6.04	2,612.13	2,612.14	2,609.07	3.07	849.722 CC	
300.00	300.00	296.95	298.94	2.01	1.22	90.138	-6.30	2,612.14	2,612.15	2,608.91	3.23	808.307	
400.00	400.00	388.45	390.43	2.35	1.44	90.161	-7.36	2,612.29	2,612.32	2,608.53	3.79	689.544	
500.00	500.00	480.67	482.65	2.65	1.69	90.184	-8.38	2,612.79	2,612.86	2,608.52	4.34	601.826	
600.00	600.00	584.47	586.44	2.93	2.00	90.202	-9.23	2,613.46	2,613.51	2,608.58	4.92	530.717	
700.00	700.00	684.49	686.45	3.18	2.31	90.223	-10.19	2,613.95	2,614.00	2,608.51	5.49	475.911	
800.00	800.00	774.18	776.15	3.41	2.61	90.236	-10.77	2,614.57	2,614.70	2,608.68	6.02	434.359	
900.00	900.00	879.96	881.92	3.64	2.96	90.257	-11.72	2,615.46	2,615.54	2,608.95	6.59	396.645	
1,000.00	1,000.00	993.02	994.97	3.85	3.34	90.281	-12.81	2,615.91	2,615.94	2,608.75	7.19	363.864	
1,100.00	1,100.00	1,092.70	1,094.64	4.05	3.69	90.301	-13.73	2,616.07	2,616.11	2,608.38	7.73	338.291	
1,200.00	1,200.00	1,185.32	1,187.26	4.24	4.01	90.323	-14.73	2,616.37	2,616.45	2,608.20	8.25	317.234 ES	
1,300.00	1,300.00	1,274.22	1,276.14	4.43	4.32	90.350	-16.00	2,616.96	2,617.12	2,608.37	8.74	299.304	
1,400.00	1,400.00	1,364.74	1,366.64	4.61	4.63	90.388	-17.75	2,618.01	2,618.28	2,609.04	9.24	283.321	
1,500.00	1,500.00	1,467.15	1,469.03	4.78	5.00	90.436	-19.95	2,619.24	2,619.50	2,609.73	9.78	267.929	
1,600.00	1,599.98	1,570.87	1,572.71	5.03	5.36	-160.044	-22.23	2,620.40	2,622.28	2,611.89	10.39	252.365	
1,629.90	1,629.86	1,602.66	1,604.49	5.06	5.47	-160.029	-22.94	2,620.71	2,623.71	2,613.17	10.53	249.077	
1,700.00	1,699.88	1,678.87	1,680.68	5.14	5.74	-160.018	-24.60	2,621.35	2,627.29	2,616.41	10.88	241.460	
1,800.00	1,799.78	1,783.54	1,785.32	5.31	6.12	-160.006	-26.78	2,621.98	2,632.16	2,620.75	11.41	230.636	
1,900.00	1,899.68	1,879.33	1,881.09	5.50	6.46	-159.997	-28.66	2,622.53	2,637.02	2,625.09	11.94	220.933	
2,000.00	1,999.58	2,001.17	2,002.90	5.70	6.89	-159.984	-31.17	2,622.99	2,641.70	2,629.14	12.56	210.271	
2,100.00	2,099.47	2,102.73	2,104.45	5.91	7.25	-159.967	-33.54	2,622.80	2,645.79	2,632.67	13.13	201.527	
2,200.00	2,199.37	2,197.59	2,199.27	6.14	7.59	-159.950	-35.82	2,622.76	2,650.03	2,636.35	13.68	193.710	
2,300.00	2,299.27	2,325.52	2,327.15	6.37	8.04	-159.918	-39.26	2,622.05	2,653.76	2,639.41	14.36	184.846	
2,400.00	2,399.16	2,430.59	2,432.17	6.61	8.41	-159.884	-42.45	2,620.65	2,656.71	2,641.75	14.96	177.597	
2,500.00	2,499.06	2,521.52	2,523.05	6.86	8.74	-159.856	-45.14	2,619.64	2,659.89	2,644.37	15.52	171.392	
2,600.00	2,598.96	2,607.81	2,609.31	7.12	9.04	-159.831	-47.64	2,619.02	2,663.47	2,647.40	16.07	165.740	
2,700.00	2,698.86	2,690.19	2,691.65	7.38	9.34	-159.809	-49.96	2,618.94	2,667.66	2,651.05	16.61	160.578	
2,800.00	2,798.75	2,782.66	2,784.09	7.65	9.67	-159.789	-52.35	2,619.44	2,672.48	2,655.28	17.20	155.401	
2,900.00	2,898.65	2,893.11	2,894.50	7.92	10.07	-159.764	-55.26	2,619.66	2,676.95	2,659.10	17.85	149.955	
3,000.00	2,998.55	3,004.53	3,005.88	8.20	10.47	-159.733	-58.44	2,619.69	2,681.28	2,662.77	18.51	144.827	
3,100.00	3,098.44	3,121.12	3,122.38	8.48	10.88	-159.680	-62.75	2,618.91	2,684.91	2,665.71	19.20	139.858	
3,200.00	3,198.34	3,205.05	3,206.24	8.77	11.19	-159.637	-66.07	2,618.32	2,688.53	2,668.76	19.77	136.008	
3,300.00	3,298.24	3,286.42	3,287.56	9.05	11.48	-159.598	-69.18	2,618.31	2,692.83	2,672.50	20.33	132.454	
3,400.00	3,398.14	3,401.06	3,402.10	9.35	11.89	-159.544	-73.54	2,618.63	2,697.45	2,676.43	21.02	128.340	
3,500.00	3,498.03	3,575.86	3,576.75	9.64	12.52	-159.459	-80.30	2,615.56	2,699.90	2,677.98	21.92	123.194	
3,600.00	3,597.93	3,682.23	3,683.01	9.94	12.89	-159.418	-83.82	2,612.16	2,701.00	2,678.43	22.57	119.674	
3,700.00	3,697.83	3,774.27	3,774.92	10.23	13.22	-159.372	-87.39	2,609.31	2,702.22	2,679.04	23.18	116.585	
3,800.00	3,797.72	3,867.99	3,868.53	10.53	13.56	-159.321	-91.29	2,606.67	2,703.74	2,679.94	23.80	113.624	
3,900.00	3,897.62	3,942.61	3,943.06	10.84	13.82	-159.276	-94.52	2,604.93	2,705.76	2,681.41	24.35	111.126	
4,000.00	3,997.52	4,016.32	4,016.69	11.14	14.09	-159.234	-97.69	2,604.02	2,708.84	2,683.94	24.90	108.793	
4,100.00	4,097.42	4,099.07	4,099.36	11.45	14.39	-159.187	-101.25	2,603.68	2,712.76	2,687.27	25.48	106.453	
4,200.00	4,197.31	4,195.67	4,195.89	11.75	14.74	-159.135	-105.24	2,603.57	2,716.98	2,690.86	26.12	104.020	
4,300.00	4,297.21	4,290.64	4,290.78	12.06	15.08	-159.091	-108.86	2,603.62	2,721.36	2,694.61	26.75	101.729	
4,400.00	4,397.11	4,383.48	4,383.56	12.37	15.42	-159.049	-112.36	2,603.84	2,725.93	2,698.56	27.38	99.576	
4,500.00	4,497.01	4,470.41	4,470.42	12.68	15.73	-159.009	-115.73	2,604.39	2,730.89	2,702.91	27.98	97.609	
4,600.00	4,596.90	4,557.78	4,557.73	13.00	16.05	-158.973	-118.87	2,605.40	2,736.37	2,707.79	28.58	95.738	
4,700.00	4,696.80	4,684.18	4,684.04	13.31	16.51	-158.918	-123.57	2,606.47	2,741.55	2,712.22	29.34	93.454	
4,800.00	4,796.70	4,782.59	4,782.37	13.62	16.86	-158.867	-127.66	2,606.63	2,746.06	2,716.07	29.98	91.584	
4,900.00	4,896.59	4,858.48	4,858.19	13.94	17.14	-158.831	-130.61	2,607.25	2,751.22	2,720.68	30.55	90.064	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 404H - OH / 68222 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 176-MWD+HDCM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Offset												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,996.49	4,928.00	4,927.64	14.25	17.39	-158.794	-133.56	2,608.46	2,757.34	2,726.26	31.08	88.708	
5,100.00	5,096.39	5,022.00	5,021.49	14.57	17.73	-158.731	-138.21	2,610.78	2,764.18	2,732.47	31.72	87.157	
5,200.00	5,196.29	5,249.02	5,248.26	14.89	18.55	-158.597	-148.42	2,610.00	2,767.43	2,734.58	32.85	84.246	
5,300.00	5,296.18	5,345.54	5,344.68	15.20	18.90	-158.551	-152.15	2,608.10	2,769.82	2,736.32	33.49	82.700	
5,400.00	5,396.08	5,440.65	5,439.71	15.52	19.24	-158.508	-155.76	2,606.41	2,772.39	2,738.25	34.13	81.228	
5,500.00	5,495.98	5,537.71	5,536.68	15.84	19.59	-158.463	-159.49	2,604.81	2,775.09	2,740.31	34.78	79.797	
5,600.00	5,595.87	5,636.14	5,635.03	16.16	19.95	-158.418	-163.28	2,603.26	2,777.87	2,742.45	35.43	78.407	
5,700.00	5,695.77	5,734.00	5,732.81	16.48	20.30	-158.374	-166.99	2,601.77	2,780.71	2,744.63	36.08	77.073	
5,800.00	5,795.67	5,831.69	5,830.42	16.80	20.65	-158.334	-170.50	2,600.38	2,783.64	2,746.91	36.73	75.789	
5,900.00	5,895.57	5,919.18	5,917.86	17.12	20.97	-158.304	-173.38	2,599.29	2,786.75	2,749.41	37.34	74.628	
6,000.00	5,995.46	5,998.79	5,997.43	17.44	21.26	-158.278	-175.96	2,598.85	2,790.52	2,752.60	37.93	73.578	
6,100.00	6,095.36	6,083.17	6,081.76	17.76	21.56	-158.248	-178.83	2,598.98	2,795.01	2,756.49	38.53	72.547	
6,200.00	6,195.26	6,182.70	6,181.23	18.09	21.92	-158.214	-182.19	2,599.30	2,799.68	2,760.50	39.19	71.446	
6,300.00	6,295.16	6,276.06	6,274.54	18.41	22.26	-158.184	-185.24	2,599.76	2,804.51	2,764.69	39.82	70.427	
6,400.00	6,395.05	6,370.72	6,369.15	18.73	22.60	-158.155	-188.29	2,600.42	2,809.55	2,769.09	40.46	69.438	
6,500.00	6,494.95	6,466.90	6,465.27	19.06	22.95	-158.126	-191.40	2,601.26	2,814.76	2,773.65	41.11	68.473	
6,600.00	6,594.85	6,565.32	6,563.64	19.38	23.30	-158.099	-194.40	2,602.20	2,820.05	2,778.28	41.76	67.526	
6,700.00	6,694.74	6,663.54	6,661.83	19.70	23.66	-158.078	-197.15	2,603.19	2,825.38	2,782.96	42.42	66.611	
6,800.00	6,794.64	6,763.68	6,761.93	20.03	24.01	-158.063	-199.63	2,604.28	2,830.78	2,787.70	43.08	65.714	
6,900.00	6,894.54	6,865.09	6,863.30	20.35	24.38	-158.052	-201.93	2,605.30	2,836.08	2,792.34	43.74	64.834	
7,000.00	6,994.44	6,981.36	6,979.54	20.68	24.80	-158.046	-204.27	2,606.29	2,841.24	2,796.77	44.47	63.894	
7,100.00	7,094.33	7,094.41	7,092.58	21.00	25.20	-158.053	-205.81	2,606.50	2,845.68	2,800.50	45.18	62.984	
7,200.00	7,194.23	7,191.62	7,189.79	21.33	25.55	-158.066	-206.84	2,606.55	2,849.99	2,804.15	45.83	62.181	
7,300.00	7,294.13	7,281.30	7,279.47	21.65	25.87	-158.078	-207.78	2,606.80	2,854.52	2,808.06	46.46	61.445	
7,400.00	7,394.02	7,375.70	7,373.85	21.98	26.20	-158.089	-208.82	2,607.34	2,859.34	2,812.25	47.10	60.711	
7,500.00	7,493.92	7,471.26	7,469.41	22.30	26.54	-158.100	-209.91	2,608.04	2,864.33	2,816.59	47.74	59.996	
7,600.00	7,593.82	7,566.88	7,565.02	22.63	26.88	-158.111	-211.05	2,608.89	2,869.47	2,821.08	48.39	59.303	
7,700.00	7,693.72	7,655.66	7,653.78	22.95	27.20	-158.118	-212.22	2,609.89	2,874.86	2,825.86	49.00	58.666	
7,800.00	7,793.61	7,773.80	7,771.91	23.28	27.62	-158.133	-213.52	2,611.17	2,880.20	2,830.47	49.73	57.914	
7,900.00	7,893.51	7,884.90	7,883.00	23.61	27.99	-158.180	-213.08	2,611.72	2,884.88	2,834.46	50.42	57.220	
8,000.00	7,993.41	7,977.89	7,975.99	23.93	28.29	-158.227	-212.27	2,612.20	2,889.57	2,838.54	51.03	56.626	
8,100.00	8,093.31	8,074.61	8,072.70	24.26	28.61	-158.275	-211.53	2,612.91	2,894.48	2,842.83	51.66	56.034	
8,200.00	8,193.20	8,181.63	8,179.72	24.59	28.96	-158.321	-210.99	2,613.56	2,899.28	2,846.96	52.32	55.410	
8,300.00	8,293.10	8,281.76	8,279.85	24.92	29.29	-158.360	-210.72	2,613.97	2,903.90	2,850.93	52.97	54.824	
8,400.00	8,393.00	8,379.28	8,377.37	25.24	29.62	-158.401	-210.29	2,614.51	2,908.65	2,855.04	53.60	54.264	
8,500.00	8,492.89	8,478.70	8,476.78	25.57	29.94	-158.447	-209.64	2,615.06	2,913.39	2,859.15	54.24	53.710	
8,600.00	8,592.79	8,576.07	8,574.15	25.90	30.27	-158.493	-208.96	2,615.66	2,918.20	2,863.32	54.88	53.177	
8,700.00	8,692.69	8,671.99	8,670.07	26.23	30.59	-158.533	-208.50	2,616.35	2,923.12	2,867.61	55.51	52.660	
8,800.00	8,792.59	8,765.78	8,763.85	26.55	30.91	-158.571	-208.16	2,617.18	2,928.20	2,872.07	56.14	52.163	
8,900.00	8,892.48	8,861.23	8,859.29	26.88	31.23	-158.608	-207.88	2,618.21	2,933.50	2,876.72	56.77	51.672	
9,000.00	8,992.38	8,959.71	8,957.77	27.21	31.57	-158.646	-207.61	2,619.37	2,938.88	2,881.46	57.42	51.182	
9,100.00	9,092.28	9,058.05	9,056.10	27.54	31.90	-158.685	-207.28	2,620.56	2,944.30	2,886.23	58.07	50.705	
9,200.00	9,192.17	9,177.94	9,175.99	27.87	32.31	-158.732	-206.86	2,621.73	2,949.51	2,890.71	58.80	50.165	
9,300.00	9,292.07	9,329.55	9,327.59	28.19	32.82	-158.789	-206.35	2,620.31	2,952.47	2,892.84	59.63	49.511	
9,400.00	9,391.97	9,410.82	9,408.85	28.52	33.09	-158.817	-206.23	2,619.63	2,955.85	2,895.63	60.22	49.088	
9,500.00	9,491.87	9,496.80	9,494.83	28.85	33.38	-158.850	-205.96	2,619.36	2,959.75	2,898.93	60.82	48.667	
9,600.00	9,591.76	9,589.90	9,587.93	29.18	33.71	-158.871	-206.36	2,619.43	2,964.06	2,902.61	61.45	48.234	
9,700.00	9,691.66	9,694.06	9,692.09	29.51	34.08	-158.881	-207.55	2,619.44	2,968.33	2,906.19	62.14	47.772	
9,800.00	9,791.56	9,793.48	9,791.50	29.84	34.43	-158.903	-208.06	2,619.40	2,972.54	2,909.73	62.80	47.332	
9,900.00	9,891.45	9,886.37	9,884.39	30.17	34.76	-158.929	-208.22	2,619.47	2,976.85	2,913.40	63.44	46.921	
10,000.00	9,991.35	9,977.18	9,975.20	30.50	35.09	-158.951	-208.55	2,619.83	2,981.49	2,917.41	64.08	46.530	
10,100.00	10,091.25	10,089.95	10,087.97	30.83	35.48	-158.979	-208.98	2,620.37	2,986.22	2,921.43	64.79	46.089	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 404H - OH / 68222 - Surveys (H&P 474)													Offset Site Error:	0.00 usft	
Survey Program:		176-MWD+HDCM		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
10,200.00	10,191.15	10,321.35	10,319.26	31.15	36.30	-158.968	-213.19	2,615.79	2,988.73	2,922.82	65.91	45.346			
10,300.00	10,291.04	10,433.19	10,430.88	31.48	36.70	-158.919	-217.40	2,610.41	2,988.23	2,921.63	66.60	44.867			
10,343.00	10,334.00	10,462.73	10,460.38	31.63	36.80	-158.908	-218.43	2,609.07	2,988.14	2,921.29	66.84	44.704			
10,400.00	10,390.94	10,499.00	10,496.60	31.81	36.93	-158.898	-219.51	2,607.60	2,988.31	2,921.16	67.15	44.501			
10,500.00	10,490.84	10,594.00	10,591.50	32.14	37.26	-158.873	-222.26	2,604.19	2,989.03	2,921.24	67.79	44.090			
10,600.00	10,590.74	10,667.00	10,664.45	32.47	37.52	-158.868	-223.66	2,602.03	2,990.36	2,922.00	68.36	43.743			
10,700.00	10,690.63	10,830.76	10,828.12	32.80	38.07	-158.919	-223.50	2,596.73	2,991.54	2,922.32	69.22	43.217			
10,800.00	10,790.53	10,927.29	10,924.53	33.13	38.40	-158.944	-223.66	2,591.91	2,990.80	2,920.93	69.87	42.807			
10,820.65	10,811.16	10,940.45	10,937.68	33.20	38.45	-158.946	-223.72	2,591.34	2,990.77	2,920.79	69.98	42.738			
10,900.00	10,890.43	10,998.60	10,995.79	33.46	38.65	-158.955	-224.13	2,589.13	2,991.11	2,920.68	70.43	42.467			
11,000.00	10,990.32	11,088.56	11,085.69	33.79	38.96	-158.969	-224.79	2,586.12	2,992.02	2,920.96	71.06	42.106			
11,100.00	11,090.22	11,161.00	11,158.09	34.12	39.21	-158.983	-225.15	2,583.83	2,993.22	2,921.59	71.62	41.790			
11,200.00	11,190.12	11,219.26	11,216.34	34.45	39.41	-159.000	-225.21	2,582.67	2,995.63	2,923.50	72.13	41.528			
11,300.00	11,290.02	11,277.18	11,274.26	34.78	39.60	-159.022	-224.99	2,582.72	2,999.84	2,927.20	72.64	41.299			
11,400.00	11,389.91	11,385.39	11,382.47	35.11	39.97	-159.061	-224.70	2,583.30	3,004.61	2,931.28	73.33	40.977			
11,444.32	11,434.18	11,449.94	11,447.01	35.25	40.20	-159.073	-225.14	2,583.23	3,006.44	2,932.76	73.69	40.800			
11,500.00	11,489.83	11,512.13	11,509.20	35.42	40.42	-159.084	-225.94	2,582.88	3,008.01	2,933.94	74.07	40.610			
11,574.22	11,564.04	11,614.78	11,611.84	35.53	40.78	91.464	-227.06	2,581.78	3,008.15	2,933.61	74.54	40.358			
11,600.00	11,589.82	11,643.81	11,640.86	35.53	40.88	91.464	-227.06	2,581.29	3,007.71	2,933.07	74.64	40.298			
11,700.00	11,689.82	11,727.00	11,724.04	35.54	41.16	91.457	-226.63	2,580.13	3,006.30	2,931.37	74.93	40.120			
11,800.00	11,789.82	11,834.07	11,831.10	35.56	41.52	91.450	-226.27	2,578.72	3,004.97	2,929.66	75.32	39.898			
11,900.00	11,889.82	11,916.00	11,913.03	35.58	41.81	91.452	-226.35	2,577.91	3,003.97	2,928.36	75.61	39.728			
12,000.00	11,989.82	11,999.89	11,996.92	35.60	42.09	91.447	-226.07	2,577.57	3,003.54	2,927.63	75.91	39.565			
12,074.22	12,064.04	12,089.82	12,086.83	35.61	42.39	91.423	-224.81	2,577.16	3,003.18	2,926.95	76.23	39.396			
12,100.00	12,089.81	12,115.89	12,112.90	35.62	42.48	-88.048	-224.25	2,576.98	3,002.97	2,926.65	76.32	39.347			
12,150.00	12,139.60	12,155.00	12,152.00	35.69	42.61	-88.177	-223.26	2,576.70	3,002.45	2,925.98	76.47	39.263			
12,200.00	12,188.82	12,187.74	12,184.73	35.77	42.72	-88.327	-222.90	2,576.60	3,002.05	2,925.44	76.62	39.183			
12,245.66	12,232.93	12,212.00	12,208.99	35.85	42.80	-88.450	-223.32	2,576.71	3,001.93	2,925.19	76.74	39.118			
12,250.00	12,237.08	12,214.30	12,211.29	35.86	42.81	-88.461	-223.39	2,576.72	3,001.94	2,925.18	76.75	39.112			
12,300.00	12,284.02	12,235.00	12,231.97	35.96	42.88	-88.559	-224.27	2,576.95	3,002.12	2,925.24	76.88	39.049			
12,350.00	12,329.30	12,253.61	12,250.50	36.06	42.95	-88.618	-225.88	2,577.31	3,002.72	2,925.70	77.02	38.987			
12,400.00	12,372.55	12,282.00	12,278.44	36.17	43.06	-88.706	-230.74	2,578.30	3,003.90	2,926.69	77.21	38.907			
12,450.00	12,413.46	12,282.00	12,278.44	36.28	43.06	-88.555	-230.74	2,578.30	3,005.40	2,928.10	77.30	38.879			
12,500.00	12,451.70	12,282.00	12,278.44	36.40	43.06	-88.333	-230.74	2,578.30	3,007.62	2,930.22	77.41	38.855			
12,550.00	12,487.00	12,309.94	12,305.29	36.51	43.16	-88.322	-238.27	2,579.86	3,010.11	2,932.46	77.64	38.768			
12,600.00	12,519.08	12,329.00	12,323.09	36.63	43.23	-88.193	-244.90	2,581.30	3,013.26	2,935.40	77.86	38.700			
12,650.00	12,547.69	12,329.00	12,323.09	36.75	43.23	-87.828	-244.90	2,581.30	3,016.89	2,938.87	78.02	38.668			
12,700.00	12,572.62	12,350.22	12,342.50	36.86	43.31	-87.654	-253.27	2,583.22	3,020.97	2,942.69	78.29	38.589			
12,750.00	12,593.68	12,376.00	12,365.65	36.99	43.41	-87.516	-264.28	2,585.95	3,025.62	2,947.03	78.59	38.499			
12,800.00	12,610.72	12,376.00	12,365.65	37.11	43.41	-87.018	-264.28	2,585.95	3,030.58	2,951.77	78.80	38.458			
12,850.00	12,623.59	12,376.00	12,365.65	37.23	43.41	-86.460	-264.28	2,585.95	3,036.12	2,957.10	79.03	38.419			
12,900.00	12,632.20	12,394.54	12,381.94	37.36	43.48	-86.136	-272.82	2,588.24	3,042.02	2,962.67	79.35	38.336			
12,950.00	12,636.49	12,402.76	12,389.05	37.49	43.51	-85.622	-276.80	2,589.36	3,048.41	2,968.77	79.64	38.277			
12,974.22	12,637.00	12,406.50	12,392.25	37.55	43.52	-85.357	-278.65	2,589.88	3,051.65	2,971.87	79.78	38.249			
13,000.00	12,637.00	12,424.00	12,407.05	37.62	43.59	-85.640	-287.61	2,592.53	3,055.35	2,975.35	80.00	38.191			
13,100.00	12,637.00	12,424.00	12,407.05	37.92	43.59	-85.640	-287.61	2,592.53	3,071.06	2,990.53	80.53	38.134			
13,200.00	12,637.00	12,424.00	12,407.05	38.28	43.59	-85.640	-287.61	2,592.53	3,089.93	3,008.87	81.06	38.118			
13,300.00	12,637.00	12,450.89	12,429.08	38.69	43.69	-86.062	-302.26	2,597.29	3,111.40	3,029.67	81.74	38.067			
13,400.00	12,637.00	12,472.00	12,445.75	39.15	43.76	-86.382	-314.44	2,601.70	3,135.85	3,053.47	82.38	38.065			
13,500.00	12,637.00	12,472.00	12,445.75	39.66	43.76	-86.382	-314.44	2,601.70	3,162.98	3,080.08	82.90	38.154			
13,600.00	12,637.00	12,755.00	12,629.35	40.23	44.85	-89.858	-516.53	2,669.28	3,192.74	3,107.70	85.04	37.542			
13,700.00	12,637.00	12,779.13	12,641.10	40.84	44.95	-90.076	-536.83	2,674.90	3,218.87	3,133.09	85.78	37.526			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 404H - OH / 68222 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 176-MWD+HJGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
13,800.00	12,637.00	12,803.00	12,651.33	41.49	45.04	-90.265	-557.41	2,681.33	3,247.46	3,160.95	86.50	37.542	
13,900.00	12,637.00	13,607.01	12,687.31	42.20	48.91	-90.884	-1,326.86	2,847.61	3,273.92	3,183.00	90.92	36.009	
14,000.00	12,637.00	13,866.00	12,686.05	42.94	50.59	-90.858	-1,585.20	2,865.23	3,278.73	3,185.59	93.14	35.203	
14,100.00	12,637.00	13,996.65	12,685.93	43.73	51.52	-90.855	-1,715.73	2,870.56	3,281.68	3,186.82	94.86	34.595	
14,200.00	12,637.00	14,245.00	12,684.41	44.55	53.38	-90.828	-1,963.95	2,874.72	3,282.15	3,184.88	97.27	33.741	
14,300.00	12,637.00	14,315.09	12,683.27	45.41	53.94	-90.808	-2,034.02	2,874.44	3,280.85	3,182.02	98.84	33.194	
14,400.00	12,637.00	14,422.97	12,681.81	46.30	54.82	-90.783	-2,141.90	2,875.17	3,280.54	3,179.88	100.65	32.592	
14,500.00	12,637.00	14,657.67	12,681.08	47.23	56.82	-90.771	-2,376.51	2,872.96	3,279.80	3,176.52	103.28	31.757	
14,600.00	12,637.00	14,810.00	12,681.91	48.18	58.16	-90.787	-2,528.66	2,866.03	3,274.34	3,168.87	105.47	31.045	
14,700.00	12,637.00	14,862.28	12,682.67	49.16	58.63	-90.802	-2,580.82	2,862.64	3,267.69	3,160.55	107.14	30.499	
14,800.00	12,637.00	14,905.00	12,683.85	50.17	59.02	-90.823	-2,623.51	2,861.75	3,264.00	3,155.25	108.75	30.013	
14,900.00	12,637.00	14,905.00	12,683.85	51.19	59.02	-90.823	-2,623.51	2,861.75	3,262.25	3,152.20	110.05	29.643	
15,000.00	12,637.00	15,282.00	12,693.91	52.25	62.65	-91.004	-2,999.33	2,852.31	3,261.51	3,147.49	114.02	28.604	
15,100.00	12,637.00	15,316.50	12,695.01	53.32	63.00	-91.024	-3,033.73	2,849.98	3,253.83	3,138.12	115.71	28.120	
15,200.00	12,637.00	15,376.00	12,696.63	54.41	63.59	-91.053	-3,093.16	2,847.62	3,248.45	3,130.88	117.57	27.631	
15,300.00	12,637.00	15,376.00	12,696.63	55.51	63.59	-91.053	-3,093.16	2,847.62	3,244.54	3,125.58	118.96	27.273	
15,400.00	12,637.00	15,376.00	12,696.63	56.64	63.59	-91.053	-3,093.16	2,847.62	3,243.72	3,123.43	120.29	26.966	
15,413.13	12,637.00	15,411.42	12,697.62	56.79	63.96	-91.071	-3,128.56	2,847.40	3,243.08	3,122.30	120.78	26.851	
15,413.19	12,637.00	15,411.43	12,697.62	56.79	63.96	-91.071	-3,128.58	2,847.40	3,243.08	3,122.30	120.78	26.851	
15,500.00	12,637.00	15,433.51	12,698.37	57.78	64.19	-91.084	-3,150.64	2,847.83	3,243.97	3,121.87	122.10	26.568	
15,600.00	12,637.00	15,471.00	12,699.86	58.93	64.58	-91.110	-3,188.06	2,849.57	3,247.24	3,123.53	123.71	26.250	
15,700.00	12,637.00	15,559.91	12,700.46	60.10	65.52	-91.119	-3,276.82	2,854.26	3,251.51	3,125.68	125.83	25.841	
15,800.00	12,637.00	15,623.03	12,699.00	61.28	66.20	-91.093	-3,339.82	2,857.63	3,256.01	3,128.32	127.69	25.499	
15,900.00	12,637.00	15,672.92	12,698.07	62.47	66.74	-91.075	-3,389.57	2,861.30	3,262.27	3,132.87	129.40	25.211	
16,000.00	12,637.00	15,753.00	12,696.45	63.67	67.62	-91.045	-3,469.35	2,868.00	3,269.59	3,138.13	131.45	24.872	
16,100.00	12,637.00	15,857.17	12,696.17	64.88	68.78	-91.037	-3,573.13	2,876.97	3,277.20	3,143.38	133.82	24.490	
16,200.00	12,637.00	16,248.52	12,701.85	66.11	73.20	-91.132	-3,963.76	2,895.57	3,283.33	3,143.99	139.34	23.564	
16,300.00	12,637.00	16,319.00	12,700.54	67.34	74.00	-91.109	-4,034.23	2,895.35	3,282.09	3,140.67	141.42	23.208	
16,350.00	12,637.00	16,350.77	12,699.91	67.96	74.36	-91.098	-4,065.99	2,895.49	3,281.84	3,139.41	142.43	23.042	
16,400.00	12,637.00	16,372.85	12,699.76	68.58	74.62	-91.096	-4,088.07	2,895.80	3,282.06	3,138.72	143.34	22.897	
16,500.00	12,637.00	16,414.00	12,700.07	69.82	75.09	-91.101	-4,129.20	2,896.88	3,283.76	3,138.65	145.11	22.630	
16,600.00	12,637.00	16,633.48	12,701.79	71.08	77.66	-91.130	-4,348.57	2,901.63	3,285.37	3,136.54	148.82	22.076	
16,662.92	12,637.00	16,663.78	12,701.58	71.87	78.02	-91.126	-4,378.87	2,901.79	3,285.05	3,135.03	150.02	21.898	
16,700.00	12,637.00	16,698.00	12,701.60	72.34	78.42	-91.127	-4,413.08	2,902.32	3,285.25	3,134.35	150.89	21.772	
16,800.00	12,637.00	16,777.69	12,701.51	73.61	79.36	-91.125	-4,492.76	2,903.85	3,286.06	3,132.92	153.13	21.459	
16,900.00	12,637.00	16,887.00	12,701.18	74.88	80.66	-91.119	-4,602.06	2,905.24	3,286.30	3,130.60	155.70	21.107	
17,000.00	12,637.00	16,937.33	12,701.53	76.16	81.27	-91.125	-4,652.38	2,906.17	3,287.32	3,129.70	157.62	20.856	
17,100.00	12,637.00	16,982.00	12,702.10	77.45	81.81	-91.134	-4,697.01	2,907.89	3,290.14	3,130.69	159.45	20.634	
17,200.00	12,637.00	17,144.39	12,702.41	78.74	83.79	-91.138	-4,859.28	2,913.91	3,292.88	3,130.16	162.72	20.237	
17,300.00	12,637.00	17,532.47	12,698.30	80.04	88.49	-91.071	-5,247.04	2,904.94	3,287.61	3,119.51	168.10	19.557	
17,400.00	12,637.00	17,549.00	12,697.97	81.34	88.69	-91.066	-5,263.54	2,903.95	3,281.64	3,111.74	169.89	19.316	
17,500.00	12,637.00	17,594.78	12,697.14	82.65	89.25	-91.052	-5,309.27	2,902.16	3,277.39	3,105.49	171.90	19.066	
17,600.00	12,637.00	17,643.00	12,696.56	83.96	89.85	-91.042	-5,357.48	2,902.34	3,276.01	3,102.11	173.90	18.838	
17,641.49	12,637.00	17,643.00	12,696.56	84.50	89.85	-91.042	-5,357.48	2,902.34	3,275.75	3,101.25	174.50	18.773	
17,700.00	12,637.00	17,643.00	12,696.56	85.27	89.85	-91.042	-5,357.48	2,902.34	3,276.27	3,100.97	175.30	18.690	
17,800.00	12,637.00	17,679.59	12,696.12	86.59	90.31	-91.034	-5,394.05	2,903.68	3,278.98	3,101.93	177.05	18.520	
17,900.00	12,637.00	17,737.00	12,694.95	87.91	91.03	-91.012	-5,451.32	2,907.38	3,283.95	3,104.90	179.04	18.342	
18,000.00	12,637.00	17,872.40	12,693.24	89.24	92.75	-90.981	-5,586.49	2,914.88	3,288.49	3,106.37	182.12	18.057	
18,100.00	12,637.00	18,190.63	12,690.65	90.57	96.78	-90.936	-5,904.54	2,917.77	3,286.81	3,099.47	187.34	17.545	
18,200.00	12,637.00	18,346.28	12,691.35	91.90	98.74	-90.950	-6,060.09	2,912.84	3,282.31	3,091.81	190.50	17.230	
18,300.00	12,637.00	18,399.95	12,691.96	93.24	99.42	-90.961	-6,113.75	2,911.40	3,278.63	3,085.99	192.64	17.019	
18,400.00	12,637.00	18,494.00	12,691.38	94.58	100.61	-90.952	-6,207.77	2,909.52	3,275.64	3,080.44	195.19	16.782	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 404H - OH / 68222 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 176-MWD+HDGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				Reference	Offset		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
18,500.00	12,637.00	18,588.00	12,688.59	95.92	101.82	-90.903	-6,301.71	2,907.97	3,272.94	3,075.20	197.74	16.551	
18,600.00	12,637.00	18,683.00	12,687.47	97.26	103.04	-90.885	-6,396.69	2,906.41	3,270.28	3,069.97	200.32	16.326	
18,700.00	12,637.00	18,752.00	12,687.91	98.61	103.92	-90.893	-6,465.68	2,905.55	3,268.12	3,065.51	202.61	16.130	
18,800.00	12,637.00	18,834.80	12,687.77	99.96	104.99	-90.891	-6,548.48	2,905.48	3,267.01	3,061.96	205.05	15.933	
18,900.00	12,637.00	18,871.00	12,687.61	101.31	105.46	-90.888	-6,584.68	2,905.49	3,266.64	3,059.73	206.91	15.787	
18,902.45	12,637.00	18,898.47	12,687.46	101.35	105.82	-90.885	-6,612.15	2,905.66	3,266.39	3,059.09	207.30	15.757	
19,000.00	12,637.00	18,965.00	12,687.05	102.67	106.69	-90.878	-6,678.65	2,907.41	3,267.68	3,058.19	209.49	15.598	
19,100.00	12,637.00	18,996.34	12,686.86	104.02	107.10	-90.874	-6,709.97	2,908.71	3,270.17	3,058.96	211.22	15.483	
19,200.00	12,637.00	19,060.00	12,686.53	105.38	107.94	-90.868	-6,773.56	2,911.53	3,273.73	3,060.38	213.35	15.344	
19,300.00	12,637.00	19,285.76	12,684.63	106.74	110.92	-90.833	-6,999.06	2,921.11	3,277.97	3,060.19	217.78	15.052	
19,400.00	12,637.00	19,344.00	12,683.49	108.11	111.69	-90.812	-7,057.27	2,922.31	3,279.06	3,059.16	219.90	14.911	
19,500.00	12,637.00	19,397.50	12,682.47	109.47	112.40	-90.794	-7,110.73	2,924.14	3,281.50	3,059.57	221.93	14.786	
19,600.00	12,637.00	19,438.00	12,681.71	110.84	112.93	-90.781	-7,151.18	2,926.10	3,285.49	3,061.78	223.72	14.686	
19,700.00	12,637.00	19,723.00	12,682.91	112.20	116.72	-90.801	-7,435.85	2,933.27	3,285.77	3,056.76	229.01	14.348	
19,720.07	12,637.00	19,723.00	12,682.91	112.48	116.72	-90.801	-7,435.85	2,933.27	3,285.71	3,056.41	229.30	14.329	
19,800.00	12,637.00	19,723.00	12,682.91	113.57	116.72	-90.801	-7,435.85	2,933.27	3,286.68	3,056.30	230.38	14.267	
19,900.00	12,637.00	20,024.28	12,685.23	114.95	120.71	-90.842	-7,737.03	2,932.37	3,284.07	3,048.51	235.56	13.941	
20,000.00	12,637.00	20,102.88	12,682.97	116.32	121.75	-90.803	-7,815.57	2,930.55	3,280.71	3,042.69	238.03	13.783	
20,100.00	12,637.00	20,212.01	12,680.34	117.69	123.20	-90.758	-7,924.65	2,928.19	3,277.52	3,036.70	240.82	13.610	
20,200.00	12,637.00	20,313.04	12,680.45	119.07	124.54	-90.761	-8,025.64	2,925.81	3,274.17	3,030.63	243.53	13.444	
20,300.00	12,637.00	20,385.00	12,680.89	120.45	125.49	-90.769	-8,097.58	2,924.14	3,270.96	3,025.02	245.94	13.300	
20,400.00	12,637.00	20,467.00	12,683.05	121.83	126.59	-90.807	-8,179.54	2,923.08	3,268.71	3,020.26	248.46	13.156	
20,500.00	12,637.00	20,525.00	12,685.89	123.21	127.37	-90.857	-8,237.47	2,922.91	3,267.46	3,016.77	250.68	13.034	
20,521.54	12,637.00	20,525.00	12,685.89	123.50	127.37	-90.857	-8,237.47	2,922.91	3,267.38	3,016.39	250.99	13.018	
20,600.00	12,637.00	20,525.00	12,685.89	124.59	127.37	-90.857	-8,237.47	2,922.91	3,268.33	3,016.28	252.04	12.967	
20,700.00	12,637.00	20,525.00	12,685.89	125.97	127.37	-90.857	-8,237.47	2,922.91	3,272.25	3,019.07	253.19	12.924	
20,800.00	12,637.00	20,525.00	12,685.89	127.35	127.37	-90.857	-8,237.47	2,922.91	3,279.23	3,025.11	254.11	12.905 SF	
20,900.00	12,637.00	20,525.00	12,685.89	128.74	127.37	-90.857	-8,237.47	2,922.91	3,289.23	3,034.40	254.83	12.908	
21,000.00	12,637.00	20,525.00	12,685.89	130.12	127.37	-90.857	-8,237.47	2,922.91	3,302.23	3,046.91	255.32	12.934	
21,100.00	12,637.00	20,525.00	12,685.89	131.51	127.37	-90.857	-8,237.47	2,922.91	3,318.19	3,062.59	255.61	12.982	
21,200.00	12,637.00	20,525.00	12,685.89	132.90	127.37	-90.857	-8,237.47	2,922.91	3,337.08	3,081.39	255.69	13.051	
21,300.00	12,637.00	20,525.00	12,685.89	134.29	127.37	-90.857	-8,237.47	2,922.91	3,358.84	3,103.26	255.57	13.142	
21,400.00	12,637.00	20,525.00	12,685.89	135.68	127.37	-90.857	-8,237.47	2,922.91	3,383.41	3,128.15	255.27	13.254	
21,500.00	12,637.00	20,525.00	12,685.89	137.07	127.37	-90.857	-8,237.47	2,922.91	3,410.75	3,155.96	254.78	13.387	
21,600.00	12,637.00	20,525.00	12,685.89	138.46	127.37	-90.857	-8,237.47	2,922.91	3,440.77	3,186.64	254.12	13.540	
21,700.00	12,637.00	20,525.00	12,685.89	139.85	127.37	-90.857	-8,237.47	2,922.91	3,473.41	3,220.10	253.31	13.712	
21,800.00	12,637.00	20,525.00	12,685.89	141.25	127.37	-90.857	-8,237.47	2,922.91	3,508.60	3,256.26	252.34	13.904	
21,900.00	12,637.00	20,525.00	12,685.89	142.64	127.37	-90.857	-8,237.47	2,922.91	3,546.26	3,295.02	251.24	14.115	
22,000.00	12,637.00	20,525.00	12,685.89	144.04	127.37	-90.857	-8,237.47	2,922.91	3,586.31	3,336.30	250.02	14.344	
22,100.00	12,637.00	20,525.00	12,685.89	145.43	127.37	-90.857	-8,237.47	2,922.91	3,628.68	3,380.00	248.68	14.592	
22,200.00	12,637.00	20,525.00	12,685.89	146.83	127.37	-90.857	-8,237.47	2,922.91	3,673.29	3,426.04	247.24	14.857	
22,300.00	12,637.00	20,525.00	12,685.89	148.23	127.37	-90.857	-8,237.47	2,922.91	3,720.04	3,474.32	245.72	15.139	
22,400.00	12,637.00	20,525.00	12,685.89	149.63	127.37	-90.857	-8,237.47	2,922.91	3,768.87	3,524.76	244.11	15.439	
22,500.00	12,637.00	20,525.00	12,685.89	151.02	127.37	-90.857	-8,237.47	2,922.91	3,819.70	3,577.26	242.44	15.755	
22,600.00	12,637.00	20,525.00	12,685.89	152.42	127.37	-90.857	-8,237.47	2,922.91	3,872.44	3,631.73	240.71	16.087	
22,700.00	12,637.00	20,525.00	12,685.89	153.83	127.37	-90.857	-8,237.47	2,922.91	3,927.02	3,688.08	238.94	16.435	
22,800.00	12,637.00	20,525.00	12,685.89	155.23	127.37	-90.857	-8,237.47	2,922.91	3,983.36	3,746.24	237.12	16.799	
22,900.00	12,637.00	20,525.00	12,685.89	156.63	127.37	-90.857	-8,237.47	2,922.91	4,041.39	3,806.12	235.28	17.177	
23,000.00	12,637.00	20,525.00	12,685.89	158.03	127.37	-90.857	-8,237.47	2,922.91	4,101.04	3,867.64	233.41	17.570	
23,100.00	12,637.00	20,525.00	12,685.89	159.43	127.37	-90.857	-8,237.47	2,922.91	4,162.24	3,930.72	231.52	17.978	
23,124.22	12,637.00	20,525.00	12,685.89	159.77	127.37	-90.857	-8,237.47	2,922.91	4,177.29	3,946.23	231.06	18.079	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 434H - OH / 68223 - Surveys (H&P 474)													Offset Site Error: 0.00 usft
Survey Program: 176-MWD+HDGM													Offset Well Error: 1.00 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	2.00	1.00	1.00	90.107	-4.76	2,552.33	2,552.34				
100.00	100.00	99.69	101.69	1.08	1.01	90.110	-4.89	2,552.30	2,552.31	2,550.21	2.10	1,217.928	
200.00	200.00	198.86	200.86	1.60	1.06	90.118	-5.26	2,552.21	2,552.22	2,549.56	2.66	960.355	
210.20	210.20	208.20	210.20	1.64	1.07	90.119	-5.29	2,552.21	2,552.22	2,549.51	2.71	942.273	
300.00	300.00	290.41	292.40	2.01	1.20	90.123	-5.47	2,552.33	2,552.35	2,549.14	3.21	794.300	
400.00	400.00	408.54	410.53	2.35	1.47	90.127	-5.65	2,552.23	2,552.26	2,548.43	3.83	666.908	
500.00	500.00	504.48	506.47	2.65	1.74	90.137	-6.11	2,551.91	2,551.92	2,547.53	4.39	580.809	
600.00	600.00	598.19	600.18	2.93	2.02	90.153	-6.82	2,551.75	2,551.76	2,546.82	4.95	515.737	
601.65	601.65	599.65	601.64	2.93	2.03	90.153	-6.83	2,551.75	2,551.76	2,546.81	4.96	514.837	
700.00	700.00	691.03	693.02	3.18	2.31	90.165	-7.33	2,551.93	2,551.95	2,546.46	5.49	464.636	
800.00	800.00	799.45	801.44	3.41	2.67	90.183	-8.14	2,552.11	2,552.13	2,546.04	6.08	419.687	
900.00	900.00	905.74	907.72	3.64	3.02	90.194	-8.66	2,551.84	2,551.87	2,545.21	6.66	383.322	
1,000.00	1,000.00	1,002.33	1,004.31	3.85	3.35	90.205	-9.14	2,551.59	2,551.61	2,544.42	7.20	354.615	
1,081.71	1,081.71	1,079.72	1,081.70	4.01	3.61	90.213	-9.47	2,551.52	2,551.54	2,543.91	7.63	334.625	
1,100.00	1,100.00	1,096.80	1,098.79	4.05	3.67	90.215	-9.55	2,551.52	2,551.54	2,543.82	7.72	330.480	
1,200.00	1,200.00	1,187.59	1,189.57	4.24	3.99	90.230	-10.22	2,551.70	2,551.74	2,543.52	8.23	310.163	
1,300.00	1,300.00	1,272.14	1,274.11	4.43	4.28	90.249	-11.11	2,552.26	2,552.42	2,543.71	8.70	293.252	
1,400.00	1,400.00	1,358.06	1,360.03	4.61	4.57	90.256	-11.43	2,553.47	2,553.81	2,544.63	9.17	278.355	
1,500.00	1,500.00	1,469.96	1,471.92	4.78	4.94	90.239	-10.66	2,554.93	2,555.11	2,545.39	9.72	262.824	
1,600.00	1,599.98	1,569.83	1,571.78	5.03	5.27	-160.307	-9.96	2,555.96	2,557.78	2,547.47	10.30	248.265	
1,629.90	1,629.86	1,597.31	1,599.25	5.06	5.37	-160.309	-9.79	2,556.28	2,559.25	2,548.82	10.43	245.483	
1,700.00	1,699.88	1,691.35	1,693.29	5.14	5.68	-160.359	-9.01	2,557.10	2,562.89	2,552.08	10.82	236.903	
1,800.00	1,799.78	1,817.04	1,818.95	5.31	6.10	-160.454	-6.67	2,556.71	2,566.83	2,555.43	11.40	225.192	
1,900.00	1,899.68	1,908.20	1,910.08	5.50	6.41	-160.535	-4.40	2,556.22	2,570.56	2,558.68	11.89	216.217	
2,000.00	1,999.58	2,003.73	2,005.58	5.70	6.73	-160.618	-2.13	2,555.93	2,574.53	2,562.12	12.41	207.496	
2,100.00	2,099.47	2,110.09	2,111.92	5.91	7.09	-160.699	-0.10	2,555.58	2,578.49	2,565.52	12.98	198.717	
2,200.00	2,199.37	2,334.18	2,335.88	6.14	7.86	-160.853	3.48	2,550.00	2,580.78	2,566.84	13.95	185.037	
2,300.00	2,299.27	2,514.64	2,515.77	6.37	8.49	-161.002	7.43	2,536.51	2,577.10	2,562.33	14.77	174.426	
2,400.00	2,399.16	2,595.46	2,596.31	6.61	8.77	-161.062	8.87	2,529.98	2,573.33	2,558.03	15.29	168.258	
2,500.00	2,499.06	2,735.57	2,735.98	6.86	9.26	-161.160	11.09	2,519.13	2,570.16	2,554.16	16.01	160.549	
2,600.00	2,598.96	2,835.39	2,835.33	7.12	9.62	-161.245	13.36	2,509.64	2,564.95	2,548.35	16.60	154.476	
2,700.00	2,698.86	2,982.79	2,981.87	7.38	10.15	-161.379	17.00	2,494.24	2,558.68	2,541.33	17.35	147.442	
2,800.00	2,798.75	3,078.67	3,077.14	7.65	10.49	-161.471	19.53	2,483.84	2,552.14	2,534.19	17.95	142.173	
2,900.00	2,898.65	3,197.60	3,195.30	7.92	10.93	-161.549	21.06	2,470.39	2,545.13	2,526.51	18.62	136.664	
3,000.00	2,998.55	3,278.20	3,275.37	8.20	11.22	-161.584	21.29	2,461.11	2,537.95	2,518.76	19.18	132.296	
3,100.00	3,098.44	3,346.94	3,343.74	8.48	11.47	-161.613	21.46	2,454.03	2,531.94	2,512.23	19.71	128.454	
3,200.00	3,198.34	3,416.00	3,412.51	8.77	11.72	-161.643	21.70	2,447.74	2,527.14	2,506.90	20.24	124.856	
3,300.00	3,298.24	3,480.94	3,477.25	9.05	11.96	-161.672	21.92	2,442.67	2,523.64	2,502.89	20.76	121.579	
3,400.00	3,398.14	3,639.84	3,635.61	9.35	12.54	-161.760	23.28	2,429.71	2,519.87	2,498.29	21.58	116.757	
3,500.00	3,498.03	3,754.47	3,749.72	9.64	12.96	-161.827	24.37	2,418.92	2,514.83	2,492.56	22.27	112.943	
3,600.00	3,597.93	3,845.50	3,840.27	9.94	13.29	-161.860	24.31	2,409.60	2,508.91	2,486.03	22.88	109.660	
3,700.00	3,697.83	3,937.08	3,931.47	10.23	13.63	-161.887	24.02	2,401.22	2,504.03	2,480.54	23.50	106.575	
3,800.00	3,797.72	4,108.23	4,101.58	10.53	14.27	-161.951	23.97	2,382.56	2,497.31	2,472.95	24.36	102.521	
3,900.00	3,897.62	4,188.71	4,181.50	10.84	14.57	-161.980	23.87	2,373.01	2,489.75	2,464.80	24.95	99.792	
4,000.00	3,997.52	4,267.00	4,259.34	11.14	14.87	-162.006	23.67	2,364.67	2,483.32	2,457.78	25.53	97.257	
4,100.00	4,097.42	4,352.77	4,344.69	11.45	15.18	-162.038	23.65	2,356.13	2,477.63	2,451.48	26.14	94.776	
4,200.00	4,197.31	4,482.95	4,474.10	11.75	15.67	-162.110	24.54	2,342.10	2,471.11	2,444.22	26.89	91.899	
4,300.00	4,297.21	4,551.00	4,541.73	12.06	15.93	-162.157	25.43	2,334.62	2,464.58	2,437.13	27.45	89.789	
4,400.00	4,397.11	4,617.21	4,607.63	12.37	16.18	-162.202	26.25	2,328.22	2,459.38	2,431.38	28.00	87.838	
4,500.00	4,497.01	4,700.20	4,690.35	12.68	16.48	-162.248	26.88	2,321.67	2,455.77	2,427.16	28.60	85.860	
4,600.00	4,596.90	4,797.83	4,787.68	13.00	16.85	-162.299	27.48	2,313.90	2,452.14	2,422.89	29.25	83.823	
4,700.00	4,696.80	5,004.64	4,993.39	13.31	17.62	-162.447	30.33	2,293.27	2,446.55	2,416.30	30.25	80.879	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 434H - OH / 68223 - Surveys (H&P 474)													Offset Site Error: 0.00 usft
Survey Program: 176-MWD+HDCM													Offset Well Error: 1.00 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,800.00	4,796.70	5,119.00	5,106.81	13.62	18.06	-162.538	32.13	2,278.76	2,438.18	2,407.22	30.96	78.761	
4,900.00	4,896.59	5,192.33	5,179.63	13.94	18.34	-162.592	33.12	2,270.13	2,430.64	2,399.10	31.55	77.051	
5,000.00	4,996.49	5,307.00	5,293.40	14.25	18.78	-162.690	35.22	2,255.98	2,422.63	2,390.37	32.26	75.103	
5,100.00	5,096.39	5,402.00	5,387.67	14.57	19.15	-162.774	37.03	2,244.40	2,414.82	2,381.91	32.91	73.370	
5,200.00	5,196.29	5,475.43	5,460.64	14.89	19.43	-162.830	38.07	2,236.28	2,408.00	2,374.49	33.50	71.871	
5,300.00	5,296.18	5,665.62	5,649.02	15.20	20.17	-163.020	42.45	2,210.60	2,398.38	2,363.95	34.43	69.654	
5,400.00	5,396.08	5,753.64	5,736.06	15.52	20.51	-163.115	44.67	2,197.72	2,388.18	2,353.10	35.08	68.085	
5,500.00	5,495.98	5,836.39	5,817.97	15.84	20.84	-163.198	46.48	2,186.13	2,378.58	2,342.88	35.71	66.616	
5,600.00	5,595.87	5,921.50	5,902.31	16.16	21.17	-163.275	48.03	2,174.82	2,369.70	2,333.36	36.34	65.207	
5,700.00	5,695.77	6,015.41	5,995.44	16.48	21.53	-163.350	49.32	2,162.78	2,361.26	2,324.26	37.00	63.818	
5,800.00	5,795.67	6,111.34	6,090.58	16.80	21.91	-163.420	50.34	2,150.57	2,352.93	2,315.26	37.67	62.470	
5,900.00	5,895.57	6,197.31	6,175.89	17.12	22.24	-163.476	50.99	2,139.94	2,344.94	2,306.64	38.30	61.223	
6,000.00	5,995.46	6,285.32	6,263.30	17.44	22.58	-163.525	51.35	2,129.72	2,337.68	2,298.74	38.94	60.028	
6,100.00	6,095.36	6,394.45	6,371.69	17.76	23.00	-163.592	51.98	2,116.99	2,330.39	2,290.75	39.65	58.778	
6,200.00	6,195.26	6,491.81	6,468.34	18.09	23.38	-163.665	53.06	2,105.29	2,322.78	2,282.46	40.32	57.610	
6,300.00	6,295.16	6,578.88	6,554.82	18.41	23.71	-163.721	53.69	2,095.24	2,315.63	2,274.67	40.96	56.534	
6,400.00	6,395.05	6,671.54	6,646.91	18.73	24.07	-163.787	54.60	2,085.00	2,308.97	2,267.35	41.62	55.480	
6,500.00	6,494.95	6,770.16	6,744.92	19.06	24.45	-163.875	56.25	2,074.14	2,302.41	2,260.11	42.30	54.436	
6,600.00	6,594.85	6,864.30	6,838.48	19.38	24.81	-163.959	57.85	2,063.90	2,295.98	2,253.02	42.96	53.445	
6,700.00	6,694.74	6,954.18	6,927.85	19.70	25.16	-164.036	59.26	2,054.44	2,289.91	2,246.30	43.61	52.507	
6,800.00	6,794.64	7,042.32	7,015.54	20.03	25.49	-164.107	60.42	2,045.61	2,284.33	2,240.08	44.26	51.616	
6,900.00	6,894.54	7,139.63	7,112.40	20.35	25.86	-164.180	61.55	2,036.30	2,279.21	2,234.28	44.93	50.728	
7,000.00	6,994.44	7,268.26	7,240.34	20.68	26.35	-164.291	63.54	2,023.16	2,273.49	2,227.78	45.70	49.747	
7,100.00	7,094.33	7,369.96	7,341.38	21.00	26.75	-164.395	65.67	2,011.82	2,266.84	2,220.45	46.39	48.862	
7,200.00	7,194.23	7,452.84	7,423.77	21.33	27.07	-164.478	67.31	2,002.93	2,260.62	2,213.59	47.03	48.071	
7,300.00	7,294.13	7,538.39	7,508.88	21.65	27.39	-164.554	68.68	1,994.44	2,255.18	2,207.51	47.67	47.311	
7,400.00	7,394.02	7,629.38	7,599.46	21.98	27.74	-164.629	69.93	1,985.87	2,250.23	2,201.91	48.32	46.566	
7,500.00	7,493.92	7,724.70	7,694.38	22.30	28.10	-164.698	70.90	1,977.20	2,245.59	2,196.60	48.99	45.836	
7,600.00	7,593.82	7,864.32	7,833.34	22.63	28.63	-164.813	72.75	1,963.73	2,240.53	2,190.73	49.80	44.990	
7,700.00	7,693.72	7,965.05	7,933.41	22.95	29.02	-164.939	75.64	1,952.68	2,234.17	2,183.67	50.49	44.246	
7,800.00	7,793.61	8,049.00	8,016.86	23.28	29.34	-165.044	78.04	1,943.83	2,228.21	2,177.08	51.14	43.574	
7,900.00	7,893.51	8,124.33	8,091.81	23.61	29.63	-165.130	79.94	1,936.58	2,223.17	2,171.42	51.75	42.961	
8,000.00	7,993.41	8,204.54	8,171.71	23.93	29.93	-165.214	81.72	1,929.63	2,219.08	2,166.71	52.37	42.372	
8,100.00	8,093.31	8,281.79	8,248.71	24.26	30.22	-165.285	83.07	1,923.65	2,215.90	2,162.92	52.98	41.826	
8,200.00	8,193.20	8,332.00	8,298.80	24.59	30.40	-165.326	83.80	1,920.25	2,214.01	2,160.54	53.48	41.400	
8,300.00	8,293.10	8,426.00	8,392.66	24.92	30.74	-165.410	85.59	1,915.65	2,213.69	2,159.55	54.14	40.889	
8,302.46	8,295.56	8,426.00	8,392.66	24.92	30.74	-165.410	85.59	1,915.65	2,213.69	2,159.54	54.15	40.884 CC, ES	
8,400.00	8,393.00	8,480.31	8,446.93	25.24	30.93	-165.466	87.02	1,914.00	2,214.97	2,160.34	54.63	40.543	
8,500.00	8,492.89	8,566.77	8,533.33	25.57	31.23	-165.560	89.52	1,912.06	2,217.35	2,162.09	55.25	40.130	
8,600.00	8,592.79	8,661.88	8,628.40	25.90	31.57	-165.652	91.86	1,910.19	2,220.00	2,164.09	55.91	39.706	
8,700.00	8,692.69	8,755.04	8,721.52	26.23	31.89	-165.730	93.67	1,908.67	2,222.95	2,166.39	56.56	39.304	
8,800.00	8,792.59	8,848.46	8,814.93	26.55	32.21	-165.801	95.31	1,907.44	2,226.19	2,168.99	57.21	38.916	
8,900.00	8,892.48	8,943.89	8,910.33	26.88	32.54	-165.870	96.82	1,906.46	2,229.71	2,171.85	57.86	38.536	
9,000.00	8,992.38	9,041.04	9,007.47	27.21	32.87	-165.933	98.13	1,905.61	2,233.36	2,174.84	58.52	38.162	
9,100.00	9,092.28	9,134.81	9,101.23	27.54	33.19	-165.991	99.30	1,904.96	2,237.19	2,178.03	59.17	37.811	
9,200.00	9,192.17	9,227.97	9,194.38	27.87	33.51	-166.046	100.41	1,904.64	2,241.36	2,181.56	59.81	37.476	
9,300.00	9,292.07	9,323.51	9,289.92	28.19	33.83	-166.106	101.71	1,904.52	2,245.77	2,185.31	60.46	37.146	
9,400.00	9,391.97	9,418.40	9,384.80	28.52	34.15	-166.164	102.98	1,904.58	2,250.37	2,189.26	61.10	36.829	
9,500.00	9,491.87	9,513.42	9,479.81	28.85	34.47	-166.216	104.03	1,904.90	2,255.21	2,193.46	61.74	36.525	
9,600.00	9,591.76	9,617.10	9,583.48	29.18	34.81	-166.269	105.03	1,905.34	2,260.13	2,197.71	62.42	36.206	
9,700.00	9,691.66	9,730.37	9,696.75	29.51	35.19	-166.316	105.68	1,905.38	2,264.63	2,201.48	63.15	35.860	
9,800.00	9,791.56	9,819.45	9,785.83	29.84	35.49	-166.351	106.11	1,905.28	2,268.98	2,205.21	63.77	35.581	

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



Anticollision Report



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Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 434H - OH / 68223 - Surveys (H&P 474)													Offset Site Error: 0.00 usft
Survey Program: 176-MWD+HDCM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,900.00	9,891.45	9,910.73	9,877.11	30.17	35.79	-166.375	106.11	1,905.71	2,273.85	2,209.47	64.39	35.316	
10,000.00	9,991.35	10,013.32	9,979.70	30.50	36.11	-166.387	105.56	1,906.41	2,278.88	2,213.83	65.05	35.033	
10,100.00	10,091.25	10,113.13	10,079.50	30.83	36.43	-166.390	104.68	1,907.00	2,283.78	2,218.08	65.70	34.761	
10,200.00	10,191.15	10,218.04	10,184.40	31.15	36.77	-166.380	103.21	1,907.58	2,288.60	2,222.23	66.38	34.480	
10,300.00	10,291.04	10,315.60	10,281.95	31.48	37.09	-166.371	101.86	1,908.08	2,293.37	2,226.35	67.02	34.220	
10,400.00	10,390.94	10,430.85	10,397.20	31.81	37.47	-166.377	100.87	1,908.24	2,297.83	2,230.08	67.75	33.918	
10,500.00	10,490.84	10,540.85	10,507.20	32.14	37.85	-166.405	100.78	1,907.67	2,301.70	2,233.24	68.47	33.619	
10,600.00	10,590.74	10,643.48	10,609.81	32.47	38.21	-166.448	101.31	1,906.79	2,305.31	2,236.16	69.16	33.335	
10,700.00	10,690.63	10,743.46	10,709.79	32.80	38.55	-166.493	101.97	1,905.89	2,308.89	2,239.06	69.84	33.062	
10,800.00	10,790.53	10,855.10	10,821.42	33.13	38.95	-166.555	103.19	1,904.65	2,312.32	2,241.75	70.57	32.767	
10,900.00	10,890.43	10,970.42	10,936.71	33.46	39.35	-166.626	104.60	1,902.55	2,315.05	2,243.73	71.32	32.461	
11,000.00	10,990.32	11,067.00	11,033.27	33.79	39.69	-166.679	105.56	1,900.64	2,317.60	2,245.61	71.99	32.195	
11,100.00	11,090.22	11,167.23	11,133.47	34.12	40.05	-166.726	106.20	1,898.76	2,320.21	2,247.55	72.67	31.928	
11,200.00	11,190.12	11,258.16	11,224.40	34.45	40.37	-166.753	106.21	1,897.24	2,322.97	2,249.66	73.31	31.687	
11,300.00	11,290.02	11,375.33	11,341.53	34.78	40.78	-166.814	107.20	1,894.76	2,325.33	2,251.27	74.07	31.395	
11,400.00	11,389.91	11,446.00	11,412.18	35.11	41.03	-166.856	108.00	1,893.30	2,327.93	2,253.30	74.62	31.195	
11,444.32	11,434.18	11,480.00	11,446.18	35.25	41.15	-166.872	108.26	1,892.91	2,329.44	2,254.57	74.87	31.113	
11,500.00	11,489.83	11,511.60	11,477.77	35.42	41.25	-166.892	108.46	1,892.88	2,331.38	2,256.25	75.12	31.035	
11,574.22	11,564.04	11,559.98	11,526.15	35.53	41.41	83.628	108.69	1,893.45	2,333.17	2,257.81	75.36	30.960	
11,600.00	11,589.82	11,581.30	11,547.46	35.53	41.48	83.626	108.81	1,893.80	2,333.62	2,258.19	75.43	30.939	
11,700.00	11,689.82	11,673.58	11,639.72	35.54	41.78	83.613	109.58	1,895.69	2,335.73	2,259.99	75.74	30.840	
11,800.00	11,789.82	11,803.09	11,769.21	35.56	42.21	83.589	110.78	1,897.74	2,337.46	2,261.23	76.23	30.663	
11,900.00	11,889.82	11,892.46	11,858.56	35.58	42.51	83.555	112.26	1,898.40	2,338.40	2,261.85	76.54	30.550	
12,000.00	11,989.82	11,975.21	11,941.30	35.60	42.78	83.532	113.35	1,899.71	2,340.12	2,263.30	76.82	30.462	
12,074.22	12,064.04	12,038.05	12,004.12	35.61	42.99	83.523	113.88	1,901.13	2,341.84	2,264.82	77.02	30.404	
12,100.00	12,089.81	12,061.85	12,027.91	35.62	43.06	-95.846	113.99	1,901.74	2,342.57	2,265.47	77.11	30.381	
12,150.00	12,139.60	12,107.83	12,073.88	35.69	43.21	-95.762	114.03	1,902.99	2,344.39	2,267.10	77.29	30.332	
12,200.00	12,188.82	12,140.00	12,106.03	35.77	43.32	-95.646	113.92	1,903.93	2,346.78	2,269.36	77.43	30.310	
12,250.00	12,237.08	12,169.63	12,135.64	35.86	43.41	-95.483	113.34	1,905.08	2,350.03	2,272.47	77.56	30.299	
12,300.00	12,284.02	12,192.19	12,158.13	35.96	43.48	-95.218	112.32	1,906.31	2,354.31	2,276.63	77.67	30.310	
12,350.00	12,329.30	12,234.00	12,199.70	36.06	43.61	-95.060	109.12	1,909.39	2,359.75	2,281.85	77.90	30.293	
12,400.00	12,372.55	12,234.00	12,199.70	36.17	43.61	-94.448	109.12	1,909.39	2,365.85	2,287.92	77.92	30.361	
12,450.00	12,413.46	12,234.00	12,199.70	36.28	43.61	-93.695	109.12	1,909.39	2,373.31	2,295.36	77.95	30.445	
12,500.00	12,451.70	12,260.87	12,226.24	36.40	43.69	-93.183	105.92	1,912.15	2,381.58	2,303.44	78.14	30.478	
12,550.00	12,487.00	12,281.00	12,245.93	36.51	43.75	-92.510	102.74	1,914.81	2,391.07	2,312.76	78.31	30.534	
12,600.00	12,519.08	12,281.00	12,245.93	36.63	43.75	-91.447	102.74	1,914.81	2,401.47	2,323.10	78.38	30.640	
12,650.00	12,547.69	12,304.24	12,268.51	36.75	43.82	-90.675	98.50	1,918.32	2,412.75	2,334.16	78.59	30.700	
12,700.00	12,572.62	12,328.00	12,291.46	36.86	43.88	-89.862	93.76	1,922.22	2,424.85	2,346.02	78.83	30.761	
12,750.00	12,593.68	12,345.42	12,308.18	36.99	43.93	-88.877	89.89	1,925.24	2,437.62	2,358.58	79.04	30.840	
12,800.00	12,610.72	12,380.91	12,341.78	37.11	44.02	-88.193	80.46	1,931.68	2,450.90	2,371.53	79.37	30.878	
12,850.00	12,623.59	12,418.36	12,376.46	37.23	44.12	-87.515	68.29	1,938.84	2,464.58	2,384.85	79.73	30.913	
12,900.00	12,632.20	12,444.07	12,399.63	37.36	44.18	-86.566	58.47	1,944.06	2,478.64	2,398.62	80.02	30.975	
12,950.00	12,636.49	12,949.41	12,666.98	37.49	44.71	-91.042	-333.08	2,043.29	2,490.03	2,408.75	81.28	30.635	
12,974.22	12,637.00	12,960.90	12,667.98	37.55	44.72	-90.719	-344.39	2,044.99	2,493.40	2,411.98	81.42	30.623	
13,000.00	12,637.00	12,973.10	12,668.92	37.62	44.73	-90.741	-356.42	2,046.86	2,497.13	2,415.56	81.58	30.611	
13,100.00	12,637.00	13,025.11	12,671.61	37.92	44.81	-90.800	-407.62	2,055.55	2,512.88	2,430.69	82.19	30.575	
13,200.00	12,637.00	13,211.66	12,676.29	38.28	45.30	-90.899	-591.77	2,084.88	2,527.58	2,444.63	82.94	30.473	
13,300.00	12,637.00	13,267.08	12,676.62	38.69	45.48	-90.903	-646.57	2,093.22	2,541.62	2,457.91	83.71	30.363	
13,400.00	12,637.00	13,303.00	12,676.59	39.15	45.60	-90.901	-682.00	2,099.09	2,557.42	2,472.97	84.45	30.283	
13,500.00	12,637.00	13,367.20	12,676.69	39.66	45.83	-90.899	-745.13	2,110.77	2,574.88	2,489.59	85.29	30.189	
13,600.00	12,637.00	13,398.00	12,676.96	40.23	45.95	-90.903	-775.29	2,116.99	2,594.55	2,508.50	86.05	30.152	
13,700.00	12,637.00	13,477.04	12,676.78	40.84	46.30	-90.893	-852.42	2,134.26	2,615.53	2,528.50	87.04	30.051	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design:		El Campeon Fed Com - 434H - OH / 68223 - Surveys (H&P 474)											Offset Site Error:		0.00 usft	
Survey Program:		176-MWD+HDGM						Rule Assigned:						Offset Well Error:		1.00 usft
Reference		Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
13,800.00	12,637.00	13,535.77	12,675.26	41.49	46.56	-90.854	-909.47	2,148.09	2,638.08	2,550.13	87.95	29.995				
13,900.00	12,637.00	14,434.00	12,638.02	42.20	52.06	-90.022	-1,790.77	2,246.62	2,660.46	2,567.43	93.03	28.597				
14,000.00	12,637.00	14,434.00	12,638.02	42.94	52.06	-90.022	-1,790.77	2,246.62	2,656.00	2,561.83	94.18	28.202				
14,100.00	12,637.00	14,477.83	12,635.51	43.73	52.40	-89.968	-1,834.51	2,245.92	2,654.01	2,558.50	95.51	27.789				
14,116.81	12,637.00	14,482.50	12,635.45	43.87	52.43	-89.967	-1,839.18	2,245.96	2,653.97	2,558.25	95.72	27.727				
14,200.00	12,637.00	14,528.00	12,636.89	44.55	52.79	-89.998	-1,884.61	2,247.42	2,655.25	2,558.36	96.89	27.405				
14,300.00	12,637.00	14,547.56	12,638.26	45.41	52.94	-90.027	-1,904.10	2,248.49	2,658.48	2,560.41	98.07	27.107				
14,400.00	12,637.00	14,622.00	12,642.63	46.30	53.54	-90.121	-1,978.30	2,252.50	2,663.03	2,563.38	99.65	26.724				
14,500.00	12,637.00	14,906.82	12,644.33	47.23	55.95	-90.158	-2,262.50	2,262.91	2,667.01	2,564.21	102.80	25.943				
14,600.00	12,637.00	15,000.00	12,638.79	48.18	56.76	-90.038	-2,355.51	2,262.72	2,665.79	2,561.19	104.60	25.486				
14,700.00	12,637.00	15,149.38	12,632.80	49.16	58.10	-89.910	-2,504.72	2,260.14	2,662.80	2,555.95	106.84	24.923				
14,800.00	12,637.00	15,240.61	12,630.71	50.17	58.94	-89.865	-2,595.92	2,258.51	2,660.00	2,551.27	108.73	24.464				
14,900.00	12,637.00	15,326.90	12,629.13	51.19	59.75	-89.830	-2,682.19	2,257.06	2,657.34	2,546.73	110.62	24.022				
15,000.00	12,637.00	15,396.07	12,628.78	52.25	60.41	-89.823	-2,751.35	2,256.53	2,655.62	2,543.21	112.40	23.626				
15,100.00	12,637.00	15,471.00	12,630.99	53.32	61.14	-89.870	-2,826.24	2,257.17	2,655.34	2,541.07	114.26	23.239				
15,103.93	12,637.00	15,471.00	12,630.99	53.36	61.14	-89.870	-2,826.24	2,257.17	2,655.33	2,541.02	114.31	23.229				
15,200.00	12,637.00	15,534.38	12,634.59	54.41	61.77	-89.948	-2,889.50	2,258.44	2,656.17	2,540.12	116.05	22.888				
15,300.00	12,637.00	15,630.97	12,640.15	55.51	62.75	-90.068	-2,985.90	2,260.74	2,657.56	2,539.38	118.18	22.487				
15,400.00	12,637.00	15,705.05	12,642.53	56.64	63.51	-90.119	-3,059.91	2,262.70	2,659.27	2,539.17	120.09	22.143				
15,500.00	12,637.00	15,782.18	12,645.75	57.78	64.31	-90.188	-3,136.91	2,265.81	2,662.25	2,540.20	122.05	21.812				
15,600.00	12,637.00	15,967.29	12,651.04	58.93	66.26	-90.302	-3,321.86	2,270.96	2,664.21	2,539.01	125.19	21.281				
15,695.47	12,637.00	16,063.09	12,651.52	60.05	67.28	-90.312	-3,417.66	2,271.65	2,663.95	2,536.61	127.34	20.920				
15,700.00	12,637.00	16,066.04	12,651.51	60.10	67.31	-90.312	-3,420.61	2,271.68	2,663.95	2,536.53	127.42	20.906				
15,800.00	12,637.00	16,131.00	12,650.83	61.28	68.00	-90.297	-3,485.55	2,272.80	2,664.67	2,535.36	129.31	20.607				
15,900.00	12,637.00	16,201.80	12,649.56	62.47	68.78	-90.270	-3,556.31	2,274.87	2,666.58	2,535.32	131.26	20.315				
16,000.00	12,637.00	16,288.71	12,647.49	63.67	69.74	-90.225	-3,643.13	2,278.20	2,669.40	2,536.00	133.40	20.010				
16,100.00	12,637.00	16,408.87	12,644.84	64.88	71.08	-90.168	-3,763.17	2,282.66	2,672.13	2,536.18	135.96	19.654				
16,200.00	12,637.00	16,669.68	12,647.96	66.11	74.02	-90.235	-4,023.84	2,283.36	2,671.53	2,531.46	140.07	19.073				
16,300.00	12,637.00	16,783.71	12,647.32	67.34	75.31	-90.222	-4,137.82	2,280.20	2,667.80	2,525.22	142.58	18.711				
16,400.00	12,637.00	16,860.61	12,645.99	68.58	76.19	-90.194	-4,214.68	2,277.89	2,663.81	2,519.08	144.73	18.405				
16,500.00	12,637.00	16,941.69	12,645.42	69.82	77.13	-90.181	-4,295.74	2,276.23	2,660.76	2,513.81	146.94	18.108				
16,600.00	12,637.00	16,982.00	12,644.92	71.08	77.59	-90.171	-4,336.04	2,275.57	2,658.71	2,510.02	148.69	17.881				
16,660.73	12,637.00	17,028.92	12,644.49	71.84	78.14	-90.161	-4,382.95	2,275.45	2,658.08	2,508.07	150.01	17.720				
16,700.00	12,637.00	17,045.10	12,644.46	72.34	78.33	-90.161	-4,399.13	2,275.68	2,658.25	2,507.57	150.68	17.641				
16,800.00	12,637.00	17,111.87	12,644.55	73.61	79.12	-90.163	-4,465.87	2,277.72	2,660.12	2,507.41	152.71	17.419				
16,900.00	12,637.00	17,231.86	12,640.67	74.88	80.56	-90.079	-4,585.75	2,280.76	2,661.61	2,506.19	155.42	17.125				
17,000.00	12,637.00	17,299.23	12,638.03	76.16	81.37	-90.022	-4,653.04	2,282.57	2,663.39	2,505.94	157.45	16.916				
17,100.00	12,637.00	17,769.09	12,633.44	77.45	87.01	-89.923	-5,121.55	2,271.11	2,663.23	2,499.49	163.74	16.265				
17,200.00	12,637.00	17,832.00	12,634.09	78.74	87.76	-89.937	-5,184.25	2,266.04	2,653.62	2,487.66	165.97	15.989				
17,300.00	12,637.00	17,832.00	12,634.09	80.04	87.76	-89.937	-5,184.25	2,266.04	2,645.62	2,478.02	167.61	15.784				
17,400.00	12,637.00	17,885.81	12,635.37	81.34	88.42	-89.964	-5,237.99	2,263.55	2,640.17	2,470.50	169.67	15.560				
17,500.00	12,637.00	17,927.00	12,636.46	82.65	88.92	-89.988	-5,279.15	2,262.55	2,636.84	2,465.29	171.55	15.371				
17,600.00	12,637.00	17,995.59	12,637.95	83.96	89.77	-90.021	-5,347.71	2,262.06	2,635.18	2,461.45	173.72	15.169				
17,700.00	12,637.00	18,108.48	12,637.42	85.27	91.18	-90.009	-5,460.59	2,262.20	2,634.35	2,457.90	176.44	14.930				
17,791.74	12,637.00	18,162.03	12,635.97	86.48	91.85	-89.978	-5,514.12	2,262.27	2,633.60	2,455.31	178.30	14.771				
17,800.00	12,637.00	18,166.43	12,635.89	86.59	91.90	-89.976	-5,518.52	2,262.32	2,633.61	2,455.15	178.46	14.758				
17,900.00	12,637.00	18,210.00	12,635.51	87.91	92.45	-89.968	-5,562.08	2,263.13	2,634.68	2,454.45	180.23	14.618				
18,000.00	12,637.00	18,272.44	12,635.43	89.24	93.24	-89.966	-5,624.48	2,265.42	2,637.46	2,455.22	182.24	14.472				
18,100.00	12,637.00	18,358.37	12,634.42	90.57	94.33	-89.944	-5,710.27	2,270.06	2,641.81	2,457.20	184.61	14.310				
18,200.00	12,637.00	18,435.38	12,630.76	91.90	95.32	-89.865	-5,787.09	2,274.09	2,646.16	2,459.34	186.82	14.165				
18,300.00	12,637.00	18,494.00	12,628.18	93.24	96.07	-89.809	-5,845.50	2,278.25	2,652.19	2,463.49	188.70	14.055				
18,400.00	12,637.00	18,583.93	12,625.76	94.58	97.23	-89.757	-5,935.11	2,285.51	2,659.25	2,468.13	191.12	13.914				

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 434H - OH / 68223 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 176-MWD+HDCM												Offset Well Error:	1.00 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,500.00	12,637.00	18,842.98	12,637.37	95.92	100.58	-90.008	-6,193.53	2,297.23	2,661.93	2,465.49	196.44	13.551	
18,600.00	12,637.00	18,937.45	12,641.82	97.26	101.81	-90.104	-6,287.88	2,298.94	2,662.77	2,463.74	199.03	13.379	
18,700.00	12,637.00	19,025.76	12,646.09	98.61	102.96	-90.196	-6,376.05	2,301.25	2,664.39	2,462.86	201.53	13.221	
18,800.00	12,637.00	19,124.75	12,650.31	99.96	104.25	-90.286	-6,474.92	2,303.95	2,666.14	2,461.94	204.19	13.057	
18,900.00	12,637.00	19,224.53	12,653.04	101.31	105.55	-90.345	-6,574.62	2,306.70	2,667.91	2,461.05	206.86	12.897	
19,000.00	12,637.00	19,317.92	12,652.79	102.67	106.77	-90.339	-6,667.96	2,309.37	2,669.78	2,460.36	209.42	12.749	
19,100.00	12,637.00	19,408.71	12,652.35	104.02	107.96	-90.329	-6,758.72	2,312.27	2,671.97	2,460.04	211.93	12.608	
19,200.00	12,637.00	19,441.00	12,652.18	105.38	108.38	-90.326	-6,790.98	2,313.38	2,675.21	2,461.75	213.47	12.532	
19,300.00	12,637.00	19,521.66	12,651.68	106.74	109.45	-90.314	-6,871.54	2,317.45	2,679.50	2,463.70	215.80	12.417	
19,400.00	12,637.00	19,570.58	12,651.31	108.11	110.10	-90.306	-6,920.32	2,321.15	2,686.05	2,468.55	217.51	12.349	
19,500.00	12,637.00	20,009.00	12,638.77	109.47	115.87	-90.038	-7,357.60	2,328.79	2,685.16	2,459.93	225.23	11.922	
19,600.00	12,637.00	20,110.98	12,635.70	110.84	117.20	-89.972	-7,459.46	2,324.74	2,680.19	2,452.28	227.90	11.760	
19,700.00	12,637.00	20,201.92	12,634.73	112.20	118.39	-89.951	-7,550.32	2,321.17	2,675.26	2,444.78	230.48	11.607	
19,800.00	12,637.00	20,345.86	12,634.74	113.57	120.27	-89.951	-7,694.08	2,314.13	2,669.25	2,435.65	233.60	11.427	
19,900.00	12,637.00	20,456.45	12,635.13	114.95	121.72	-89.960	-7,804.49	2,307.93	2,662.65	2,426.28	236.38	11.264	
20,000.00	12,637.00	20,532.36	12,635.73	116.32	122.72	-89.973	-7,880.28	2,303.66	2,656.09	2,417.25	238.84	11.121	
20,100.00	12,637.00	20,577.00	12,636.63	117.69	123.30	-89.992	-7,924.87	2,301.65	2,650.91	2,409.96	240.95	11.002	
20,200.00	12,637.00	20,645.56	12,638.79	119.07	124.22	-90.039	-7,993.36	2,299.68	2,647.22	2,403.94	243.29	10.881	
20,300.00	12,637.00	20,742.28	12,642.70	120.45	125.51	-90.124	-8,089.99	2,298.51	2,645.00	2,399.02	245.98	10.753	
20,400.00	12,637.00	20,830.31	12,646.30	121.83	126.68	-90.202	-8,177.94	2,297.16	2,642.51	2,393.94	248.57	10.631	
20,500.00	12,637.00	20,912.00	12,650.39	123.21	127.78	-90.291	-8,259.52	2,296.41	2,640.63	2,389.57	251.07	10.518	
20,537.34	12,637.00	20,912.00	12,650.39	123.72	127.78	-90.291	-8,259.52	2,296.41	2,640.37	2,388.82	251.55	10.497	
20,600.00	12,637.00	20,912.00	12,650.39	124.59	127.78	-90.291	-8,259.52	2,296.41	2,641.11	2,388.86	252.25	10.470	
20,700.00	12,637.00	20,912.00	12,650.39	125.97	127.78	-90.291	-8,259.52	2,296.41	2,645.38	2,392.27	253.10	10.452 SF	
20,800.00	12,637.00	20,912.00	12,650.39	127.35	127.78	-90.291	-8,259.52	2,296.41	2,653.40	2,399.78	253.62	10.462	
20,900.00	12,637.00	20,912.00	12,650.39	128.74	127.78	-90.291	-8,259.52	2,296.41	2,665.16	2,411.33	253.82	10.500	
21,000.00	12,637.00	20,912.00	12,650.39	130.12	127.78	-90.291	-8,259.52	2,296.41	2,680.60	2,426.89	253.71	10.566	
21,100.00	12,637.00	20,912.00	12,650.39	131.51	127.78	-90.291	-8,259.52	2,296.41	2,699.65	2,446.37	253.29	10.659	
21,200.00	12,637.00	20,912.00	12,650.39	132.90	127.78	-90.291	-8,259.52	2,296.41	2,722.25	2,469.68	252.57	10.778	
21,300.00	12,637.00	20,912.00	12,650.39	134.29	127.78	-90.291	-8,259.52	2,296.41	2,748.31	2,496.72	251.59	10.924	
21,400.00	12,637.00	20,912.00	12,650.39	135.68	127.78	-90.291	-8,259.52	2,296.41	2,777.72	2,527.36	250.36	11.095	
21,500.00	12,637.00	20,912.00	12,650.39	137.07	127.78	-90.291	-8,259.52	2,296.41	2,810.39	2,561.49	248.89	11.291	
21,600.00	12,637.00	20,912.00	12,650.39	138.46	127.78	-90.291	-8,259.52	2,296.41	2,846.19	2,598.97	247.22	11.513	
21,700.00	12,637.00	20,912.00	12,650.39	139.85	127.78	-90.291	-8,259.52	2,296.41	2,885.02	2,639.65	245.37	11.758	
21,800.00	12,637.00	20,912.00	12,650.39	141.25	127.78	-90.291	-8,259.52	2,296.41	2,926.75	2,683.40	243.35	12.027	
21,900.00	12,637.00	20,912.00	12,650.39	142.64	127.78	-90.291	-8,259.52	2,296.41	2,971.26	2,730.06	241.20	12.319	
22,000.00	12,637.00	20,912.00	12,650.39	144.04	127.78	-90.291	-8,259.52	2,296.41	3,018.43	2,779.51	238.93	12.633	
22,100.00	12,637.00	20,912.00	12,650.39	145.43	127.78	-90.291	-8,259.52	2,296.41	3,068.14	2,831.58	236.56	12.970	
22,200.00	12,637.00	20,912.00	12,650.39	146.83	127.78	-90.291	-8,259.52	2,296.41	3,120.25	2,886.14	234.11	13.328	
22,300.00	12,637.00	20,912.00	12,650.39	148.23	127.78	-90.291	-8,259.52	2,296.41	3,174.67	2,943.06	231.61	13.707	
22,400.00	12,637.00	20,912.00	12,650.39	149.63	127.78	-90.291	-8,259.52	2,296.41	3,231.26	3,002.20	229.06	14.106	
22,500.00	12,637.00	20,912.00	12,650.39	151.02	127.78	-90.291	-8,259.52	2,296.41	3,289.92	3,063.43	226.49	14.526	
22,600.00	12,637.00	20,912.00	12,650.39	152.42	127.78	-90.291	-8,259.52	2,296.41	3,350.54	3,126.64	223.90	14.964	
22,700.00	12,637.00	20,912.00	12,650.39	153.83	127.78	-90.291	-8,259.52	2,296.41	3,413.01	3,191.70	221.31	15.422	
22,800.00	12,637.00	20,912.00	12,650.39	155.23	127.78	-90.291	-8,259.52	2,296.41	3,477.24	3,258.51	218.73	15.898	
22,900.00	12,637.00	20,912.00	12,650.39	156.63	127.78	-90.291	-8,259.52	2,296.41	3,543.12	3,326.96	216.16	16.391	
23,000.00	12,637.00	20,912.00	12,650.39	158.03	127.78	-90.291	-8,259.52	2,296.41	3,610.57	3,396.95	213.62	16.902	
23,100.00	12,637.00	20,912.00	12,650.39	159.43	127.78	-90.291	-8,259.52	2,296.41	3,679.51	3,468.39	211.11	17.429	
23,124.22	12,637.00	20,912.00	12,650.39	159.77	127.78	-90.291	-8,259.52	2,296.41	3,696.42	3,485.91	210.51	17.559	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 514H - OH / 68224 - Suveys (H&P 474)													Offset Site Error: 0.00 usft
Survey Program: 176-MWD+HDGM													Offset Well Error: 1.00 usft
Reference													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	2.00	1.00	1.00	90.101	-4.55	2,582.28	2,582.29				
100.00	100.00	102.84	104.83	1.08	1.01	90.104	-4.70	2,582.19	2,582.20	2,580.10	2.10	1,231.757	
200.00	200.00	207.13	209.13	1.60	1.07	90.114	-5.13	2,581.90	2,581.92	2,579.25	2.67	967.652	
300.00	300.00	311.00	313.00	2.01	1.25	90.123	-5.54	2,581.46	2,581.50	2,578.24	3.26	791.764	
400.00	400.00	409.81	411.80	2.35	1.49	90.139	-6.24	2,580.96	2,581.00	2,577.16	3.84	671.551	
500.00	500.00	513.30	515.29	2.65	1.78	90.148	-6.65	2,580.43	2,580.48	2,576.04	4.44	581.547	
600.00	600.00	607.89	609.88	2.93	2.07	90.164	-7.39	2,579.96	2,579.99	2,574.99	5.00	516.096	
700.00	700.00	705.66	707.64	3.18	2.38	90.188	-8.44	2,579.67	2,579.69	2,574.13	5.56	463.749	
800.00	800.00	815.49	817.47	3.41	2.75	90.207	-9.34	2,579.06	2,579.14	2,572.98	6.16	418.712	
900.00	900.00	909.13	911.10	3.64	3.06	90.219	-9.85	2,578.48	2,578.52	2,571.83	6.70	385.093	
1,000.00	1,000.00	1,002.06	1,004.03	3.85	3.38	90.232	-10.43	2,578.32	2,578.35	2,571.13	7.22	357.041	
1,100.00	1,100.00	1,107.53	1,109.49	4.05	3.74	90.252	-11.36	2,577.92	2,577.96	2,570.17	7.78	331.161	
1,169.31	1,169.31	1,167.35	1,169.31	4.18	3.94	90.266	-11.95	2,577.78	2,577.81	2,569.68	8.12	317.296 CC	
1,200.00	1,200.00	1,192.15	1,194.11	4.24	4.03	90.271	-12.19	2,577.80	2,577.84	2,569.57	8.27	311.763 ES	
1,300.00	1,300.00	1,273.25	1,275.20	4.43	4.30	90.290	-13.06	2,578.29	2,578.44	2,569.71	8.73	295.319	
1,400.00	1,400.00	1,359.74	1,361.68	4.61	4.60	90.315	-14.20	2,579.41	2,579.73	2,570.53	9.20	280.281	
1,500.00	1,500.00	1,531.29	1,533.20	4.78	5.19	90.372	-16.77	2,580.50	2,580.77	2,570.80	9.97	258.875	
1,547.97	1,547.97	1,586.69	1,588.58	4.90	5.38	-160.145	-17.82	2,579.78	2,580.54	2,570.26	10.28	250.943	
1,600.00	1,599.98	1,643.18	1,645.06	5.03	5.58	-160.130	-18.88	2,578.79	2,580.90	2,570.29	10.61	243.231	
1,629.90	1,629.86	1,671.61	1,673.47	5.06	5.68	-160.123	-19.41	2,578.30	2,581.51	2,570.77	10.74	240.342	
1,700.00	1,699.88	1,738.45	1,740.29	5.14	5.92	-160.119	-20.60	2,577.21	2,583.36	2,572.31	11.05	233.698	
1,800.00	1,799.78	1,834.13	1,835.95	5.31	6.26	-160.113	-22.35	2,575.78	2,586.14	2,574.59	11.55	223.834	
1,900.00	1,899.68	1,928.86	1,930.66	5.50	6.59	-160.107	-24.07	2,574.52	2,589.10	2,577.02	12.07	214.446	
2,000.00	1,999.58	2,025.74	2,027.51	5.70	6.94	-160.098	-25.96	2,573.46	2,592.27	2,579.66	12.61	205.528	
2,100.00	2,099.47	2,137.41	2,139.16	5.91	7.34	-160.090	-28.04	2,572.07	2,595.31	2,582.10	13.22	196.391	
2,200.00	2,199.37	2,250.81	2,252.52	6.14	7.74	-160.085	-29.97	2,569.97	2,597.74	2,583.91	13.83	187.808	
2,300.00	2,299.27	2,344.87	2,346.55	6.37	8.07	-160.087	-31.31	2,568.08	2,600.01	2,585.62	14.39	180.693	
2,400.00	2,399.16	2,435.91	2,437.57	6.61	8.40	-160.089	-32.63	2,566.58	2,602.63	2,587.68	14.94	174.160	
2,500.00	2,499.06	2,529.05	2,530.69	6.86	8.73	-160.090	-34.03	2,565.33	2,605.56	2,590.04	15.51	167.954	
2,600.00	2,598.96	2,620.22	2,621.84	7.12	9.06	-160.092	-35.32	2,564.35	2,608.76	2,592.68	16.08	162.211	
2,700.00	2,698.86	2,709.07	2,710.69	7.38	9.37	-160.096	-36.50	2,563.74	2,612.35	2,595.70	16.65	156.914	
2,800.00	2,798.75	2,796.83	2,798.44	7.65	9.68	-160.101	-37.63	2,563.54	2,616.39	2,599.17	17.21	151.994	
2,900.00	2,898.65	2,907.40	2,909.00	7.92	10.08	-160.108	-39.03	2,563.54	2,620.68	2,602.82	17.87	146.688	
3,000.00	2,998.55	3,047.63	3,049.20	8.20	10.58	-160.118	-40.73	2,561.74	2,623.63	2,605.01	18.63	140.841	
3,100.00	3,098.44	3,134.71	3,136.26	8.48	10.89	-160.121	-41.93	2,560.29	2,626.23	2,607.03	19.21	136.747	
3,200.00	3,198.34	3,233.20	3,234.73	8.77	11.24	-160.128	-43.09	2,558.91	2,629.11	2,609.28	19.83	132.611	
3,300.00	3,298.24	3,334.13	3,335.65	9.05	11.60	-160.152	-43.54	2,557.41	2,631.89	2,611.44	20.45	128.668	
3,400.00	3,398.14	3,408.00	3,409.52	9.35	11.86	-160.172	-43.74	2,556.55	2,635.06	2,614.07	20.99	125.542	
3,500.00	3,498.03	3,486.55	3,488.07	9.64	12.13	-160.193	-43.98	2,556.35	2,639.11	2,617.57	21.54	122.541	
3,600.00	3,597.93	3,571.11	3,572.62	9.94	12.41	-160.221	-44.02	2,556.97	2,644.10	2,622.00	22.10	119.654	
3,700.00	3,697.83	3,712.66	3,714.17	10.23	12.89	-160.268	-43.98	2,557.27	2,648.60	2,625.73	22.87	115.806	
3,800.00	3,797.72	3,802.25	3,803.75	10.53	13.21	-160.289	-44.41	2,556.91	2,652.46	2,628.98	23.47	112.998	
3,900.00	3,897.62	3,896.96	3,898.46	10.84	13.55	-160.306	-45.07	2,556.78	2,656.60	2,632.50	24.10	110.246	
4,000.00	3,997.52	3,991.81	3,993.31	11.14	13.89	-160.321	-45.79	2,556.84	2,660.93	2,636.20	24.72	107.639	
4,100.00	4,097.42	4,088.66	4,090.16	11.45	14.23	-160.337	-46.54	2,557.09	2,665.46	2,640.11	25.35	105.138	
4,200.00	4,197.31	4,234.95	4,236.44	11.75	14.75	-160.354	-48.01	2,556.62	2,669.54	2,643.37	26.17	102.015	
4,300.00	4,297.21	4,333.75	4,335.21	12.06	15.10	-160.348	-49.76	2,554.95	2,672.13	2,645.31	26.81	99.656	
4,400.00	4,397.11	4,412.59	4,414.03	12.37	15.38	-160.341	-51.28	2,554.11	2,675.34	2,647.96	27.39	97.685	
4,500.00	4,497.01	4,491.28	4,492.70	12.68	15.66	-160.335	-52.76	2,553.93	2,679.39	2,651.43	27.96	95.832	
4,600.00	4,596.90	4,589.81	4,591.22	13.00	16.01	-160.332	-54.44	2,554.34	2,684.07	2,655.47	28.60	93.834	
4,700.00	4,696.80	4,708.32	4,709.70	13.31	16.44	-160.309	-57.29	2,554.06	2,688.10	2,658.78	29.33	91.662	
4,800.00	4,796.70	4,849.16	4,850.45	13.62	16.94	-160.266	-61.48	2,551.99	2,690.82	2,660.69	30.13	89.307	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 514H - OH / 68224 - Suveys (H&P 474)													Offset Site Error: 0.00 usft
Survey Program: 176-MWD+HDCM													Offset Well Error: 1.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,896.59	4,922.00	4,923.25	13.94	17.21	-160.239	-63.83	2,551.09	2,693.79	2,663.10	30.69	87.781	
5,000.00	4,996.49	5,063.20	5,064.33	14.25	17.72	-160.173	-69.11	2,548.97	2,696.69	2,665.20	31.49	85.629	
5,100.00	5,096.39	5,247.88	5,248.64	14.57	18.38	-160.049	-77.71	2,541.21	2,696.71	2,664.27	32.44	83.140	
5,200.00	5,196.29	5,380.70	5,381.05	14.89	18.86	-159.958	-83.97	2,532.87	2,694.73	2,661.53	33.20	81.176	
5,300.00	5,296.18	5,471.88	5,471.90	15.20	19.19	-159.891	-88.50	2,526.65	2,692.21	2,658.38	33.83	79.590	
5,400.00	5,396.08	5,561.13	5,560.85	15.52	19.52	-159.819	-93.18	2,520.96	2,690.15	2,655.70	34.45	78.088	
5,500.00	5,495.98	5,669.28	5,668.64	15.84	19.91	-159.735	-98.75	2,514.19	2,688.21	2,653.07	35.13	76.512	
5,600.00	5,595.87	5,806.64	5,805.50	16.16	20.41	-159.661	-104.19	2,503.88	2,684.88	2,648.97	35.91	74.773	
5,700.00	5,695.77	5,885.55	5,884.14	16.48	20.70	-159.625	-107.03	2,498.03	2,681.75	2,645.25	36.50	73.470	
5,800.00	5,795.67	5,982.87	5,981.17	16.80	21.05	-159.578	-110.65	2,491.30	2,679.14	2,641.98	37.15	72.113	
5,900.00	5,895.57	6,090.18	6,088.14	17.12	21.44	-159.546	-113.74	2,483.38	2,676.03	2,638.20	37.83	70.733	
6,000.00	5,995.46	6,165.26	6,163.04	17.44	21.70	-159.551	-114.62	2,478.33	2,673.56	2,635.15	38.41	69.599	
6,100.00	6,095.36	6,244.00	6,241.64	17.76	21.98	-159.567	-115.00	2,473.67	2,671.91	2,632.90	39.00	68.504	
6,200.00	6,195.26	6,326.16	6,323.69	18.09	22.27	-159.593	-115.04	2,469.42	2,670.98	2,631.38	39.60	67.445	
6,284.37	6,279.54	6,395.57	6,393.03	18.36	22.52	-159.623	-114.69	2,466.28	2,670.75	2,630.64	40.11	66.592	
6,300.00	6,295.16	6,408.48	6,405.93	18.41	22.56	-159.629	-114.59	2,465.74	2,670.76	2,630.56	40.20	66.437	
6,400.00	6,395.05	6,485.54	6,482.93	18.73	22.83	-159.667	-113.97	2,462.86	2,671.26	2,630.48	40.78	65.507	
6,500.00	6,494.95	6,560.72	6,558.08	19.06	23.09	-159.697	-113.75	2,460.74	2,672.69	2,631.34	41.35	64.638	
6,600.00	6,594.85	6,641.58	6,638.93	19.38	23.38	-159.726	-113.66	2,459.20	2,675.02	2,633.08	41.94	63.786	
6,700.00	6,694.74	6,736.20	6,733.53	19.70	23.71	-159.762	-113.44	2,457.62	2,677.60	2,635.03	42.57	62.893	
6,800.00	6,794.64	6,811.00	6,808.32	20.03	23.96	-159.798	-112.89	2,456.95	2,680.94	2,637.81	43.13	62.156	
6,900.00	6,894.54	6,869.40	6,866.72	20.35	24.15	-159.836	-112.02	2,457.16	2,685.50	2,641.88	43.62	61.567	
7,000.00	6,994.44	6,947.35	6,944.63	20.68	24.41	-159.902	-110.19	2,458.49	2,691.39	2,647.21	44.17	60.926	
7,100.00	7,094.33	7,047.47	7,044.71	21.00	24.73	-159.984	-107.89	2,460.34	2,697.47	2,652.65	44.82	60.191	
7,200.00	7,194.23	7,152.17	7,149.37	21.33	25.08	-160.072	-105.41	2,462.25	2,703.54	2,658.06	45.48	59.450	
7,300.00	7,294.13	7,250.89	7,248.04	21.65	25.40	-160.160	-102.77	2,463.85	2,709.40	2,663.29	46.11	58.754	
7,400.00	7,394.02	7,335.77	7,332.85	21.98	25.68	-160.244	-100.11	2,465.49	2,715.59	2,668.89	46.70	58.150	
7,500.00	7,493.92	7,421.81	7,418.83	22.30	25.96	-160.328	-97.48	2,467.71	2,722.42	2,675.13	47.29	57.569	
7,600.00	7,593.82	7,518.07	7,515.01	22.63	26.28	-160.415	-94.83	2,470.47	2,729.54	2,681.62	47.92	56.959	
7,700.00	7,693.72	7,629.86	7,626.73	22.95	26.64	-160.508	-92.10	2,473.55	2,736.58	2,687.96	48.62	56.288	
7,800.00	7,793.61	7,750.74	7,747.55	23.28	27.04	-160.602	-89.41	2,476.04	2,742.91	2,693.56	49.35	55.581	
7,900.00	7,893.51	7,850.72	7,847.50	23.61	27.38	-160.680	-87.20	2,477.69	2,748.84	2,698.84	50.00	54.977	
8,000.00	7,993.41	7,972.24	7,968.98	23.93	27.78	-160.765	-84.92	2,479.22	2,754.38	2,703.65	50.73	54.290	
8,100.00	8,093.31	8,089.62	8,086.33	24.26	28.17	-160.851	-82.52	2,479.88	2,759.24	2,707.78	51.45	53.625	
8,200.00	8,193.20	8,201.89	8,198.59	24.59	28.55	-160.931	-80.37	2,479.86	2,763.51	2,711.35	52.16	52.985	
8,300.00	8,293.10	8,307.24	8,303.92	24.92	28.91	-160.997	-78.74	2,479.52	2,767.49	2,714.65	52.83	52.381	
8,400.00	8,393.00	8,403.37	8,400.04	25.24	29.24	-161.054	-77.42	2,479.18	2,771.43	2,717.95	53.48	51.825	
8,500.00	8,492.89	8,507.09	8,503.75	25.57	29.59	-161.110	-76.21	2,478.86	2,775.42	2,721.27	54.15	51.255	
8,600.00	8,592.79	8,599.26	8,595.91	25.90	29.91	-161.159	-75.21	2,478.60	2,779.45	2,724.67	54.78	50.740	
8,700.00	8,692.69	8,689.06	8,685.72	26.23	30.21	-161.205	-74.25	2,478.65	2,783.80	2,728.41	55.40	50.252	
8,800.00	8,792.59	8,784.49	8,781.13	26.55	30.53	-161.252	-73.36	2,478.97	2,788.44	2,732.41	56.04	49.762	
8,900.00	8,892.48	8,881.02	8,877.66	26.88	30.86	-161.300	-72.45	2,479.41	2,793.21	2,736.53	56.68	49.282	
9,000.00	8,992.38	8,975.25	8,971.89	27.21	31.18	-161.349	-71.39	2,479.99	2,798.13	2,740.81	57.31	48.822	
9,100.00	9,092.28	9,068.86	9,065.48	27.54	31.50	-161.402	-70.18	2,480.76	2,803.27	2,745.32	57.95	48.377	
9,200.00	9,192.17	9,171.58	9,168.19	27.87	31.84	-161.457	-68.93	2,481.68	2,808.48	2,749.87	58.62	47.913	
9,300.00	9,292.07	9,283.47	9,280.07	28.19	32.23	-161.516	-67.65	2,482.34	2,813.38	2,754.06	59.32	47.426	
9,400.00	9,391.97	9,380.87	9,377.46	28.52	32.56	-161.568	-66.50	2,482.78	2,818.15	2,758.18	59.97	46.991	
9,500.00	9,491.87	9,479.31	9,475.90	28.85	32.89	-161.620	-65.35	2,483.30	2,823.01	2,762.38	60.63	46.563	
9,600.00	9,591.76	9,588.65	9,585.23	29.18	33.27	-161.674	-64.23	2,483.80	2,827.80	2,766.47	61.33	46.111	
9,700.00	9,691.66	9,710.93	9,707.50	29.51	33.69	-161.724	-63.51	2,483.56	2,831.91	2,769.83	62.08	45.620	
9,800.00	9,791.56	9,809.39	9,805.96	29.84	34.04	-161.751	-63.58	2,482.95	2,835.60	2,772.86	62.74	45.196	
9,900.00	9,891.45	9,914.79	9,911.37	30.17	34.41	-161.773	-64.01	2,482.38	2,839.35	2,775.92	63.43	44.762	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 514H - OH / 68224 - Suveys (H&P 474)													Offset Site Error:	0.00 usft	
Survey Program:		176-MWD+HDMG		Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
10,000.00	9,991.35	10,020.48	10,017.05	30.50	34.79	-161.787	-64.82	2,481.54	2,842.85	2,778.73	64.12	44.334			
10,100.00	10,091.25	10,117.24	10,113.79	30.83	35.13	-161.797	-65.73	2,480.75	2,846.32	2,781.54	64.78	43.937			
10,200.00	10,191.15	10,247.09	10,243.63	31.15	35.59	-161.820	-66.44	2,479.04	2,849.29	2,783.73	65.56	43.458			
10,300.00	10,291.04	10,358.96	10,355.47	31.48	35.98	-161.858	-66.18	2,476.62	2,851.43	2,785.16	66.28	43.021			
10,400.00	10,390.94	10,455.24	10,451.74	31.81	36.32	-161.892	-65.90	2,474.48	2,853.52	2,786.59	66.94	42.630			
10,500.00	10,490.84	10,567.91	10,564.37	32.14	36.72	-161.937	-65.33	2,471.95	2,855.62	2,787.96	67.66	42.208			
10,600.00	10,590.74	10,660.22	10,656.65	32.47	37.05	-161.959	-65.56	2,469.61	2,857.39	2,789.09	68.30	41.836			
10,700.00	10,690.63	10,755.68	10,752.08	32.80	37.39	-161.963	-66.75	2,467.55	2,859.52	2,790.57	68.96	41.469			
10,800.00	10,790.53	10,870.73	10,867.08	33.13	37.80	-161.953	-68.94	2,464.89	2,861.48	2,791.80	69.68	41.067			
10,900.00	10,890.43	10,942.11	10,938.43	33.46	38.05	-161.945	-70.39	2,463.37	2,863.61	2,793.37	70.25	40.766			
11,000.00	10,990.32	11,024.98	11,021.28	33.79	38.35	-161.939	-71.89	2,462.34	2,866.61	2,795.76	70.85	40.459			
11,100.00	11,090.22	11,119.48	11,115.77	34.12	38.68	-161.939	-73.20	2,461.48	2,869.98	2,798.48	71.50	40.139			
11,200.00	11,190.12	11,217.13	11,213.41	34.45	39.03	-161.942	-74.48	2,460.67	2,873.44	2,801.27	72.16	39.818			
11,300.00	11,290.02	11,325.08	11,321.33	34.78	39.41	-161.935	-76.35	2,459.76	2,876.86	2,804.00	72.86	39.483			
11,400.00	11,389.91	11,418.90	11,415.13	35.11	39.75	-161.927	-78.12	2,458.82	2,880.13	2,806.62	73.51	39.180			
11,444.32	11,434.18	11,456.75	11,452.97	35.25	39.88	-161.921	-78.96	2,458.54	2,881.69	2,807.92	73.78	39.060			
11,500.00	11,489.83	11,501.90	11,498.10	35.42	40.04	-161.918	-80.11	2,458.36	2,883.32	2,809.23	74.09	38.916			
11,574.22	11,564.04	11,572.73	11,568.91	35.53	40.29	88.648	-82.17	2,458.32	2,884.13	2,809.69	74.44	38.744			
11,600.00	11,589.82	11,601.30	11,597.46	35.53	40.39	88.665	-83.01	2,458.28	2,884.08	2,809.54	74.54	38.691			
11,700.00	11,689.82	11,710.84	11,706.95	35.54	40.78	88.734	-86.49	2,457.88	2,883.64	2,808.71	74.94	38.481			
11,800.00	11,789.82	11,818.23	11,814.26	35.56	41.16	88.816	-90.63	2,457.19	2,882.92	2,807.59	75.33	38.272			
11,900.00	11,889.82	11,910.00	11,905.95	35.58	41.49	88.889	-94.35	2,456.65	2,882.25	2,806.59	75.66	38.096			
12,000.00	11,989.82	11,995.46	11,991.34	35.60	41.79	88.953	-97.57	2,456.48	2,881.97	2,806.00	75.96	37.939			
12,074.22	12,064.04	12,074.58	12,070.42	35.61	42.07	89.008	-100.29	2,456.44	2,881.89	2,805.64	76.25	37.797			
12,100.00	12,089.81	12,102.85	12,098.67	35.62	42.17	-90.421	-101.24	2,456.38	2,881.83	2,805.48	76.35	37.746			
12,150.00	12,139.60	12,157.58	12,153.38	35.69	42.36	-90.497	-103.05	2,456.20	2,881.66	2,805.10	76.56	37.638			
12,200.00	12,188.82	12,203.87	12,199.64	35.77	42.53	-90.643	-104.49	2,456.01	2,881.52	2,804.76	76.76	37.539			
12,217.31	12,205.65	12,218.64	12,214.40	35.80	42.58	-90.704	-104.89	2,455.97	2,881.50	2,804.67	76.83	37.505			
12,250.00	12,237.08	12,246.20	12,241.95	35.86	42.68	-90.837	-105.58	2,455.92	2,881.55	2,804.59	76.96	37.440			
12,300.00	12,284.02	12,287.34	12,283.09	35.96	42.82	-91.075	-106.44	2,455.92	2,881.82	2,804.64	77.18	37.338			
12,350.00	12,329.30	12,329.00	12,324.74	36.06	42.97	-91.358	-107.09	2,455.99	2,882.39	2,804.97	77.42	37.230			
12,400.00	12,372.55	12,378.79	12,374.53	36.17	43.14	-91.760	-107.81	2,456.07	2,883.23	2,805.51	77.72	37.100			
12,450.00	12,413.46	12,428.85	12,424.58	36.28	43.32	-92.209	-108.65	2,456.00	2,884.31	2,806.27	78.03	36.963			
12,500.00	12,451.70	12,460.24	12,455.91	36.40	43.43	-92.427	-110.52	2,456.05	2,885.86	2,807.57	78.29	36.860			
12,550.00	12,487.00	12,494.61	12,490.02	36.51	43.55	-92.634	-114.66	2,456.31	2,888.00	2,809.42	78.58	36.753			
12,600.00	12,519.08	12,627.82	12,617.48	36.63	44.03	-93.895	-151.98	2,456.96	2,890.02	2,810.83	79.19	36.493			
12,650.00	12,547.69	12,644.48	12,632.66	36.75	44.08	-93.854	-158.87	2,457.05	2,892.11	2,812.66	79.45	36.401			
12,700.00	12,572.62	12,660.00	12,646.61	36.86	44.14	-93.726	-165.64	2,457.31	2,895.11	2,815.39	79.72	36.316			
12,750.00	12,593.68	12,660.00	12,646.61	36.99	44.14	-93.321	-165.64	2,457.31	2,899.15	2,819.19	79.96	36.259			
12,800.00	12,610.72	12,682.76	12,666.86	37.11	44.22	-93.126	-176.01	2,458.05	2,903.99	2,823.72	80.28	36.175			
12,850.00	12,623.59	12,707.00	12,688.19	37.23	44.30	-92.891	-187.45	2,459.37	2,909.99	2,829.38	80.61	36.099			
12,900.00	12,632.20	12,707.00	12,688.19	37.36	44.30	-92.213	-187.45	2,459.37	2,916.72	2,835.84	80.88	36.064			
12,950.00	12,636.49	12,707.00	12,688.19	37.49	44.30	-91.431	-187.45	2,459.37	2,924.44	2,843.30	81.15	36.040			
12,974.22	12,637.00	12,723.33	12,702.42	37.55	44.36	-91.299	-195.38	2,460.48	2,928.46	2,847.13	81.34	36.005			
13,000.00	12,637.00	12,732.35	12,710.24	37.62	44.39	-91.454	-199.83	2,461.13	2,932.95	2,851.44	81.51	35.984			
13,100.00	12,637.00	13,260.82	12,999.79	37.92	46.19	-97.096	-614.42	2,493.99	2,943.89	2,860.64	83.26	35.360			
13,200.00	12,637.00	13,342.27	13,003.24	38.28	46.45	-97.149	-695.53	2,500.52	2,951.34	2,867.24	84.10	35.093			
13,300.00	12,637.00	13,434.14	13,004.95	38.69	46.79	-97.165	-787.04	2,508.35	2,959.06	2,874.03	85.03	34.799			
13,400.00	12,637.00	13,499.00	13,003.15	39.15	47.03	-97.118	-851.59	2,514.43	2,967.20	2,881.23	85.97	34.516			
13,500.00	12,637.00	13,961.85	12,987.02	39.66	49.30	-96.763	-1,313.02	2,538.15	2,973.56	2,885.52	88.04	33.777			
13,600.00	12,637.00	14,032.28	12,986.79	40.23	49.71	-96.763	-1,383.44	2,536.93	2,970.84	2,881.57	89.27	33.279			
13,700.00	12,637.00	14,114.24	12,987.52	40.84	50.21	-96.781	-1,465.40	2,536.25	2,969.11	2,878.52	90.59	32.777			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 514H - OH / 68224 - Suveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 176-MWD+HDGM												Offset Well Error:	1.00 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,800.00	12,637.00	14,195.94	12,987.88	41.49	50.72	-96.790	-1,547.10	2,535.91	2,967.77	2,875.82	91.95	32.275	
13,883.70	12,637.00	14,252.00	12,988.31	42.08	51.09	-96.799	-1,603.16	2,536.11	2,967.33	2,874.25	93.08	31.879	
13,900.00	12,637.00	14,252.00	12,988.31	42.20	51.09	-96.799	-1,603.16	2,536.11	2,967.38	2,874.13	93.25	31.822	
14,000.00	12,637.00	14,323.49	12,989.25	42.94	51.57	-96.817	-1,674.63	2,537.19	2,968.15	2,873.49	94.66	31.357	
14,100.00	12,637.00	14,376.16	12,990.24	43.73	51.94	-96.833	-1,727.27	2,538.78	2,970.42	2,874.42	95.99	30.944	
14,200.00	12,637.00	14,621.18	12,988.60	44.55	53.77	-96.791	-1,972.05	2,545.82	2,973.82	2,875.34	98.47	30.199	
14,300.00	12,637.00	14,706.09	12,985.18	45.41	54.44	-96.728	-2,056.89	2,545.69	2,972.22	2,872.09	100.12	29.685	
14,400.00	12,637.00	14,773.25	12,983.37	46.30	54.98	-96.694	-2,124.02	2,546.05	2,971.46	2,869.77	101.70	29.218	
14,412.80	12,637.00	14,781.42	12,983.21	46.42	55.05	-96.691	-2,132.19	2,546.14	2,971.45	2,869.55	101.90	29.161	
14,500.00	12,637.00	14,850.41	12,982.14	47.23	55.62	-96.669	-2,201.16	2,547.29	2,971.85	2,868.49	103.36	28.752	
14,600.00	12,637.00	14,954.59	12,979.97	48.18	56.50	-96.626	-2,305.30	2,549.14	2,972.37	2,867.12	105.25	28.241	
14,700.00	12,637.00	15,055.91	12,978.99	49.16	57.39	-96.606	-2,406.60	2,550.72	2,972.82	2,865.65	107.17	27.739	
14,800.00	12,637.00	15,157.21	12,979.10	50.17	58.30	-96.607	-2,507.89	2,552.13	2,973.23	2,864.10	109.13	27.246	
14,900.00	12,637.00	15,240.13	12,979.77	51.19	59.05	-96.619	-2,590.81	2,553.33	2,973.78	2,862.82	110.97	26.799	
15,000.00	12,637.00	15,317.68	12,980.05	52.25	59.77	-96.622	-2,668.33	2,555.18	2,975.18	2,862.39	112.79	26.377	
15,100.00	12,637.00	15,407.46	12,979.11	53.32	60.62	-96.600	-2,758.06	2,557.89	2,977.08	2,862.33	114.75	25.944	
15,200.00	12,637.00	15,494.27	12,979.07	54.41	61.46	-96.595	-2,844.82	2,560.70	2,979.30	2,862.59	116.71	25.528	
15,300.00	12,637.00	15,572.00	12,979.60	55.51	62.22	-96.600	-2,922.49	2,563.74	2,982.26	2,863.66	118.60	25.146	
15,400.00	12,637.00	15,669.07	12,979.93	56.64	63.19	-96.599	-3,019.47	2,568.00	2,985.66	2,864.95	120.70	24.736	
15,500.00	12,637.00	15,780.01	12,979.22	57.78	64.32	-96.578	-3,130.31	2,572.65	2,988.75	2,865.77	122.98	24.303	
15,600.00	12,637.00	15,870.80	12,977.84	58.93	65.25	-96.545	-3,221.00	2,576.55	2,991.86	2,866.78	125.08	23.920	
15,700.00	12,637.00	15,957.85	12,976.41	60.10	66.16	-96.511	-3,307.95	2,580.66	2,995.36	2,868.21	127.15	23.557	
15,800.00	12,637.00	16,083.17	12,973.39	61.28	67.50	-96.443	-3,433.07	2,586.92	2,999.17	2,869.49	129.68	23.128	
15,900.00	12,637.00	16,310.30	12,970.93	62.47	69.95	-96.394	-3,660.15	2,590.04	2,998.80	2,865.53	133.27	22.502	
16,000.00	12,637.00	16,440.65	12,971.68	63.67	71.38	-96.414	-3,790.47	2,588.53	2,996.66	2,860.78	135.88	22.054	
16,100.00	12,637.00	16,516.00	12,974.91	64.88	72.22	-96.479	-3,865.74	2,587.57	2,994.83	2,856.86	137.97	21.707	
16,200.00	12,637.00	16,676.61	12,978.98	66.11	74.02	-96.567	-4,026.24	2,584.19	2,991.90	2,850.98	140.93	21.230	
16,300.00	12,637.00	16,773.89	12,979.79	67.34	75.12	-96.591	-4,123.48	2,581.56	2,988.32	2,845.05	143.27	20.858	
16,400.00	12,637.00	16,877.66	12,979.21	68.58	76.31	-96.588	-4,227.22	2,579.00	2,984.81	2,839.12	145.69	20.488	
16,500.00	12,637.00	17,078.76	12,973.12	69.82	78.63	-96.495	-4,428.01	2,570.09	2,978.64	2,829.61	149.03	19.987	
16,600.00	12,637.00	17,127.37	12,971.95	71.08	79.19	-96.480	-4,476.53	2,567.46	2,972.26	2,821.28	150.98	19.686	
16,700.00	12,637.00	17,178.00	12,971.75	72.34	79.78	-96.480	-4,527.14	2,566.05	2,968.13	2,815.20	152.93	19.409	
16,800.00	12,637.00	17,178.00	12,971.75	73.61	79.78	-96.480	-4,527.14	2,566.05	2,966.18	2,811.90	154.28	19.226	
16,855.07	12,637.00	17,225.24	12,971.89	74.31	80.34	-96.484	-4,574.38	2,565.95	2,965.62	2,810.08	155.54	19.067	
16,900.00	12,637.00	17,243.50	12,971.87	74.88	80.56	-96.483	-4,592.63	2,566.22	2,965.82	2,809.50	156.32	18.973	
17,000.00	12,637.00	17,273.00	12,971.74	76.16	80.91	-96.480	-4,622.13	2,567.01	2,967.77	2,809.89	157.88	18.797	
17,100.00	12,637.00	17,334.89	12,971.75	77.45	81.65	-96.475	-4,683.95	2,569.78	2,971.40	2,811.56	159.84	18.590	
17,200.00	12,637.00	17,590.97	12,973.35	78.74	84.74	-96.494	-4,939.83	2,577.98	2,974.18	2,809.82	164.35	18.096	
17,300.00	12,637.00	17,705.45	12,973.60	80.04	86.13	-96.500	-5,054.31	2,578.36	2,973.59	2,806.56	167.03	17.803	
17,400.00	12,637.00	17,777.33	12,972.88	81.34	87.01	-96.488	-5,126.18	2,578.25	2,972.49	2,803.28	169.21	17.567	
17,412.07	12,637.00	17,782.43	12,972.82	81.50	87.07	-96.487	-5,131.28	2,578.31	2,972.47	2,803.05	169.43	17.544	
17,500.00	12,637.00	17,838.00	12,972.11	82.65	87.75	-96.472	-5,186.83	2,579.65	2,973.36	2,802.12	171.24	17.364	
17,600.00	12,637.00	17,865.61	12,971.94	83.96	88.09	-96.467	-5,214.42	2,580.79	2,975.87	2,803.08	172.79	17.223	
17,700.00	12,637.00	17,933.00	12,973.13	85.27	88.93	-96.483	-5,281.69	2,584.52	2,980.36	2,805.50	174.86	17.044	
17,800.00	12,637.00	18,133.53	12,980.74	86.59	91.44	-96.617	-5,481.92	2,591.69	2,983.42	2,804.58	178.84	16.682	
17,900.00	12,637.00	18,203.22	12,982.96	87.91	92.32	-96.657	-5,551.56	2,593.46	2,985.29	2,804.29	181.00	16.493	
18,000.00	12,637.00	18,289.89	12,985.25	89.24	93.41	-96.696	-5,638.15	2,596.26	2,987.81	2,804.42	183.39	16.293	
18,100.00	12,637.00	18,486.43	12,987.97	90.57	95.89	-96.745	-5,834.63	2,599.29	2,988.13	2,800.86	187.27	15.957	
18,200.00	12,637.00	18,603.44	12,987.90	91.90	97.37	-96.746	-5,951.64	2,599.54	2,987.34	2,797.27	190.07	15.717	
18,300.00	12,637.00	18,800.01	12,987.18	93.24	99.86	-96.741	-6,148.19	2,597.43	2,985.84	2,792.06	193.78	15.408	
18,400.00	12,637.00	18,831.40	12,987.19	94.58	100.26	-96.743	-6,179.57	2,597.00	2,982.91	2,787.31	195.60	15.250	
18,500.00	12,637.00	18,878.00	12,987.43	95.92	100.86	-96.749	-6,226.17	2,596.91	2,981.79	2,784.25	197.54	15.095	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 514H - OH / 68224 - Suveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 176-MWD+HDGM												Offset Well Error:	1.00 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,600.00	12,637.00	19,091.46	12,983.30	97.26	103.59	-96.681	-6,439.54	2,594.08	2,978.81	2,777.28	201.53	14.781	
18,700.00	12,637.00	19,189.54	12,979.26	98.61	104.85	-96.612	-6,537.50	2,591.51	2,974.73	2,770.60	204.13	14.573	
18,800.00	12,637.00	19,256.00	12,977.90	99.96	105.71	-96.591	-6,603.92	2,589.78	2,971.06	2,764.68	206.37	14.396	
18,900.00	12,637.00	19,351.00	12,977.28	101.31	106.93	-96.585	-6,698.91	2,588.17	2,968.31	2,759.36	208.95	14.206	
19,000.00	12,637.00	19,407.89	12,977.01	102.67	107.67	-96.582	-6,755.80	2,587.89	2,966.58	2,755.53	211.06	14.056	
19,100.00	12,637.00	19,498.26	12,977.01	104.02	108.85	-96.584	-6,846.16	2,587.94	2,965.64	2,752.06	213.58	13.885	
19,200.00	12,637.00	19,586.51	12,979.05	105.38	110.00	-96.625	-6,934.38	2,587.84	2,964.81	2,748.74	216.08	13.721	
19,300.00	12,637.00	19,722.41	12,982.01	106.74	111.78	-96.685	-7,070.25	2,587.95	2,964.32	2,745.12	219.20	13.523	
19,400.00	12,637.00	19,777.50	12,981.93	108.11	112.50	-96.684	-7,125.34	2,587.89	2,963.27	2,742.00	221.27	13.392	
19,412.23	12,637.00	19,783.61	12,981.89	108.27	112.58	-96.684	-7,131.45	2,587.95	2,963.26	2,741.74	221.51	13.377	
19,500.00	12,637.00	19,824.00	12,981.44	109.47	113.11	-96.674	-7,171.83	2,588.68	2,963.91	2,740.74	223.17	13.281	
19,600.00	12,637.00	19,919.00	12,980.59	110.84	114.37	-96.654	-7,266.79	2,591.38	2,965.64	2,739.87	225.77	13.136	
19,700.00	12,637.00	19,999.90	12,980.08	112.20	115.44	-96.640	-7,347.64	2,594.08	2,967.86	2,739.70	228.16	13.008	
19,800.00	12,637.00	20,116.02	12,978.60	113.57	116.98	-96.606	-7,463.69	2,597.98	2,970.06	2,738.97	231.09	12.852	
19,900.00	12,637.00	20,214.80	12,976.30	114.95	118.29	-96.556	-7,562.39	2,601.22	2,972.06	2,738.30	233.77	12.714	
20,000.00	12,637.00	20,344.80	12,974.38	116.32	120.02	-96.516	-7,692.33	2,604.27	2,973.17	2,736.26	236.91	12.550	
20,100.00	12,637.00	20,444.51	12,973.11	117.69	121.35	-96.489	-7,792.01	2,606.36	2,974.12	2,734.51	239.61	12.413	
20,200.00	12,637.00	20,616.18	12,968.14	119.07	123.64	-96.393	-7,963.58	2,608.54	2,974.23	2,730.92	243.31	12.224	
20,300.00	12,637.00	20,741.46	12,964.35	120.45	125.31	-96.326	-8,088.80	2,607.44	2,971.96	2,725.62	246.34	12.065	
20,400.00	12,637.00	20,836.57	12,961.77	121.83	126.58	-96.280	-8,183.87	2,606.51	2,969.69	2,720.71	248.98	11.927	
20,500.00	12,637.00	20,918.00	12,960.06	123.21	127.67	-96.250	-8,265.28	2,605.75	2,967.60	2,716.15	251.45	11.802	
20,546.18	12,637.00	20,918.00	12,960.06	123.84	127.67	-96.250	-8,265.28	2,605.75	2,967.24	2,715.17	252.07	11.772	
20,600.00	12,637.00	20,918.00	12,960.06	124.59	127.67	-96.250	-8,265.28	2,605.75	2,967.73	2,715.01	252.72	11.743	
20,700.00	12,637.00	20,918.00	12,960.06	125.97	127.67	-96.250	-8,265.28	2,605.75	2,971.22	2,717.49	253.73	11.710	
20,800.00	12,637.00	20,918.00	12,960.06	127.35	127.67	-96.250	-8,265.28	2,605.75	2,978.08	2,723.60	254.48	11.703 SF	
20,900.00	12,637.00	20,918.00	12,960.06	128.74	127.67	-96.250	-8,265.28	2,605.75	2,988.26	2,733.29	254.97	11.720	
21,000.00	12,637.00	20,918.00	12,960.06	130.12	127.67	-96.250	-8,265.28	2,605.75	3,001.74	2,746.54	255.20	11.762	
21,100.00	12,637.00	20,918.00	12,960.06	131.51	127.67	-96.250	-8,265.28	2,605.75	3,018.48	2,763.30	255.18	11.829	
21,200.00	12,637.00	20,918.00	12,960.06	132.90	127.67	-96.250	-8,265.28	2,605.75	3,038.42	2,783.49	254.93	11.919	
21,300.00	12,637.00	20,918.00	12,960.06	134.29	127.67	-96.250	-8,265.28	2,605.75	3,061.50	2,807.06	254.44	12.033	
21,400.00	12,637.00	20,918.00	12,960.06	135.68	127.67	-96.250	-8,265.28	2,605.75	3,087.64	2,833.91	253.73	12.169	
21,500.00	12,637.00	20,918.00	12,960.06	137.07	127.67	-96.250	-8,265.28	2,605.75	3,116.77	2,863.96	252.82	12.328	
21,600.00	12,637.00	20,918.00	12,960.06	138.46	127.67	-96.250	-8,265.28	2,605.75	3,148.82	2,897.10	251.71	12.510	
21,700.00	12,637.00	20,918.00	12,960.06	139.85	127.67	-96.250	-8,265.28	2,605.75	3,183.68	2,933.24	250.44	12.712	
21,800.00	12,637.00	20,918.00	12,960.06	141.25	127.67	-96.250	-8,265.28	2,605.75	3,221.27	2,972.26	249.01	12.937	
21,900.00	12,637.00	20,918.00	12,960.06	142.64	127.67	-96.250	-8,265.28	2,605.75	3,261.49	3,014.06	247.43	13.181	
22,000.00	12,637.00	20,918.00	12,960.06	144.04	127.67	-96.250	-8,265.28	2,605.75	3,304.26	3,058.53	245.73	13.447	
22,100.00	12,637.00	20,918.00	12,960.06	145.43	127.67	-96.250	-8,265.28	2,605.75	3,349.46	3,105.54	243.92	13.732	
22,200.00	12,637.00	20,918.00	12,960.06	146.83	127.67	-96.250	-8,265.28	2,605.75	3,397.00	3,154.99	242.01	14.036	
22,300.00	12,637.00	20,918.00	12,960.06	148.23	127.67	-96.250	-8,265.28	2,605.75	3,446.79	3,206.77	240.03	14.360	
22,400.00	12,637.00	20,918.00	12,960.06	149.63	127.67	-96.250	-8,265.28	2,605.75	3,498.74	3,260.76	237.98	14.702	
22,500.00	12,637.00	20,918.00	12,960.06	151.02	127.67	-96.250	-8,265.28	2,605.75	3,552.73	3,316.86	235.87	15.062	
22,600.00	12,637.00	20,918.00	12,960.06	152.42	127.67	-96.250	-8,265.28	2,605.75	3,608.70	3,374.97	233.72	15.440	
22,700.00	12,637.00	20,918.00	12,960.06	153.83	127.67	-96.250	-8,265.28	2,605.75	3,666.53	3,434.99	231.55	15.835	
22,800.00	12,637.00	20,918.00	12,960.06	155.23	127.67	-96.250	-8,265.28	2,605.75	3,726.15	3,496.81	229.35	16.247	
22,900.00	12,637.00	20,918.00	12,960.06	156.63	127.67	-96.250	-8,265.28	2,605.75	3,787.48	3,560.34	227.13	16.675	
23,000.00	12,637.00	20,918.00	12,960.06	158.03	127.67	-96.250	-8,265.28	2,605.75	3,850.42	3,625.50	224.92	17.119	
23,100.00	12,637.00	20,918.00	12,960.06	159.43	127.67	-96.250	-8,265.28	2,605.75	3,914.91	3,692.20	222.71	17.579	
23,124.22	12,637.00	20,918.00	12,960.06	159.77	127.67	-96.250	-8,265.28	2,605.75	3,930.75	3,708.58	222.17	17.692	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 413H - OH - Plan 1 08-31-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
0.00	0.00	1.00	0.00	1.00	1.00	89.528	10.14	1,230.11	1,230.15				
100.00	100.00	101.00	100.00	1.08	1.09	89.528	10.14	1,230.11	1,230.15	1,227.98	2.17	566.493	
200.00	200.00	201.00	200.00	1.60	1.60	89.528	10.14	1,230.11	1,230.15	1,226.95	3.20	384.291	
300.00	300.00	301.00	300.00	2.01	2.01	89.528	10.14	1,230.11	1,230.15	1,226.13	4.02	305.814	
400.00	400.00	401.00	400.00	2.35	2.36	89.528	10.14	1,230.11	1,230.15	1,225.44	4.71	261.280	
500.00	500.00	501.00	500.00	2.65	2.66	89.528	10.14	1,230.11	1,230.15	1,224.84	5.31	231.627	
600.00	600.00	601.00	600.00	2.93	2.93	89.528	10.14	1,230.11	1,230.15	1,224.30	5.86	210.052	
700.00	700.00	701.00	700.00	3.18	3.18	89.528	10.14	1,230.11	1,230.15	1,223.79	6.36	193.436	
800.00	800.00	801.00	800.00	3.41	3.42	89.528	10.14	1,230.11	1,230.15	1,223.32	6.83	180.125	
900.00	900.00	901.00	900.00	3.64	3.64	89.528	10.14	1,230.11	1,230.15	1,222.88	7.27	169.146	
1,000.00	1,000.00	1,001.00	1,000.00	3.85	3.85	89.528	10.14	1,230.11	1,230.15	1,222.46	7.69	159.885	
1,100.00	1,100.00	1,101.00	1,100.00	4.05	4.05	89.528	10.14	1,230.11	1,230.15	1,222.06	8.10	151.934	
1,200.00	1,200.00	1,201.00	1,200.00	4.24	4.24	89.528	10.14	1,230.11	1,230.15	1,221.67	8.48	145.009	
1,300.00	1,300.00	1,301.00	1,300.00	4.43	4.43	89.528	10.14	1,230.11	1,230.15	1,221.30	8.86	138.904	
1,400.00	1,400.00	1,401.00	1,400.00	4.61	4.61	89.528	10.14	1,230.11	1,230.15	1,220.94	9.22	133.469	
1,500.00	1,500.00	1,501.24	1,500.24	4.78	4.78	89.528	10.14	1,230.11	1,230.15	1,220.59	9.57	128.588	
1,501.40	1,501.40	1,502.96	1,501.96	4.79	4.79	-161.008	10.14	1,230.11	1,230.15	1,220.58	9.57	128.509 CC	
1,600.00	1,599.98	1,624.85	1,623.81	5.03	5.13	-160.923	7.69	1,228.92	1,230.82	1,220.81	10.01	122.958	
1,629.90	1,629.86	1,661.79	1,660.70	5.06	5.35	-160.865	6.03	1,228.11	1,231.29	1,221.17	10.12	121.621	
1,700.00	1,699.88	1,742.54	1,741.26	5.14	5.65	-160.688	1.01	1,225.66	1,232.13	1,221.82	10.31	119.484	
1,800.00	1,799.78	1,842.39	1,840.82	5.31	5.79	-160.440	-5.82	1,222.33	1,233.06	1,222.48	10.58	116.542	
1,900.00	1,899.68	1,942.24	1,940.38	5.50	5.97	-160.193	-12.65	1,219.00	1,234.02	1,223.12	10.90	113.210	
2,000.00	1,999.58	2,042.10	2,039.95	5.70	6.18	-159.947	-19.48	1,215.68	1,235.00	1,223.76	11.24	109.890	
2,100.00	2,099.47	2,141.95	2,139.51	5.91	6.39	-159.700	-26.31	1,212.35	1,236.00	1,224.41	11.59	106.644	
2,200.00	2,199.37	2,241.80	2,239.08	6.14	6.63	-159.454	-33.14	1,209.02	1,237.02	1,225.07	11.95	103.491	
2,300.00	2,299.27	2,341.66	2,338.64	6.37	6.87	-159.209	-39.97	1,205.69	1,238.07	1,225.74	12.33	100.442	
2,400.00	2,399.16	2,441.51	2,438.20	6.61	7.13	-158.964	-46.80	1,202.36	1,239.14	1,226.43	12.71	97.507	
2,500.00	2,499.06	2,541.36	2,537.77	6.86	7.39	-158.719	-53.63	1,199.04	1,240.23	1,227.13	13.10	94.689	
2,600.00	2,598.96	2,641.22	2,637.33	7.12	7.67	-158.475	-60.46	1,195.71	1,241.35	1,227.85	13.49	91.989	
2,700.00	2,698.86	2,741.07	2,736.90	7.38	7.95	-158.231	-67.29	1,192.38	1,242.49	1,228.59	13.90	89.408	
2,800.00	2,798.75	2,840.92	2,836.46	7.65	8.24	-157.988	-74.12	1,189.05	1,243.65	1,229.34	14.30	86.944	
2,900.00	2,898.65	2,940.78	2,936.02	7.92	8.54	-157.745	-80.94	1,185.72	1,244.83	1,230.11	14.72	84.593	
3,000.00	2,998.55	3,040.63	3,035.59	8.20	8.84	-157.502	-87.77	1,182.39	1,246.03	1,230.90	15.13	82.351	
3,100.00	3,098.44	3,140.48	3,135.15	8.48	9.15	-157.260	-94.60	1,179.07	1,247.26	1,231.71	15.55	80.215	
3,200.00	3,198.34	3,240.34	3,234.72	8.77	9.47	-157.019	-101.43	1,175.74	1,248.51	1,232.54	15.97	78.180	
3,300.00	3,298.24	3,340.19	3,334.28	9.05	9.78	-156.778	-108.26	1,172.41	1,249.78	1,233.39	16.39	76.241	
3,400.00	3,398.14	3,440.05	3,433.84	9.35	10.11	-156.537	-115.09	1,169.08	1,251.08	1,234.26	16.82	74.394	
3,500.00	3,498.03	3,539.90	3,533.41	9.64	10.43	-156.297	-121.92	1,165.75	1,252.39	1,235.15	17.24	72.633	
3,600.00	3,597.93	3,639.75	3,632.97	9.94	10.76	-156.058	-128.75	1,162.43	1,253.73	1,236.06	17.67	70.954	
3,700.00	3,697.83	3,739.61	3,732.54	10.23	11.09	-155.819	-135.58	1,159.10	1,255.09	1,236.99	18.10	69.353	
3,800.00	3,797.72	3,839.46	3,832.10	10.53	11.43	-155.580	-142.41	1,155.77	1,256.47	1,237.95	18.53	67.825	
3,900.00	3,897.62	3,939.31	3,931.66	10.84	11.76	-155.342	-149.24	1,152.44	1,257.88	1,238.92	18.95	66.367	
4,000.00	3,997.52	4,039.17	4,031.23	11.14	12.10	-155.105	-156.07	1,149.11	1,259.30	1,239.92	19.38	64.974	
4,100.00	4,097.42	4,139.02	4,130.79	11.45	12.44	-154.868	-162.90	1,145.79	1,260.75	1,240.94	19.81	63.643	
4,200.00	4,197.31	4,238.87	4,230.36	11.75	12.79	-154.632	-169.73	1,142.46	1,262.22	1,241.98	20.24	62.370	
4,300.00	4,297.21	4,338.73	4,329.92	12.06	13.13	-154.396	-176.56	1,139.13	1,263.71	1,243.04	20.66	61.153	
4,400.00	4,397.11	4,438.58	4,429.48	12.37	13.48	-154.161	-183.39	1,135.80	1,265.22	1,244.13	21.09	59.988	
4,500.00	4,497.01	4,538.43	4,529.05	12.68	13.83	-153.926	-190.22	1,132.47	1,266.75	1,245.23	21.52	58.872	
4,600.00	4,596.90	4,638.29	4,628.61	13.00	14.18	-153.692	-197.05	1,129.14	1,268.30	1,246.36	21.94	57.802	
4,700.00	4,696.80	4,738.14	4,728.18	13.31	14.53	-153.458	-203.88	1,125.82	1,269.88	1,247.51	22.37	56.777	
4,800.00	4,796.70	4,837.99	4,827.74	13.62	14.88	-153.226	-210.70	1,122.49	1,271.47	1,248.69	22.79	55.793	
4,900.00	4,896.59	4,937.85	4,927.30	13.94	15.23	-152.993	-217.53	1,119.16	1,273.09	1,249.88	23.21	54.849	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 413H - OH - Plan 1 08-31-22												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,996.49	5,037.70	5,026.87	14.25	15.58	-152.761	-224.36	1,115.83	1,274.73	1,251.10	23.63	53.942	
5,100.00	5,096.39	5,137.55	5,126.43	14.57	15.94	-152.530	-231.19	1,112.50	1,276.39	1,252.34	24.05	53.071	
5,200.00	5,196.29	5,237.41	5,225.99	14.89	16.30	-152.300	-238.02	1,109.18	1,278.07	1,253.60	24.47	52.233	
5,300.00	5,296.18	5,337.26	5,325.56	15.20	16.65	-152.070	-244.85	1,105.85	1,279.77	1,254.88	24.89	51.427	
5,400.00	5,396.08	5,437.11	5,425.12	15.52	17.01	-151.840	-251.68	1,102.52	1,281.49	1,256.19	25.30	50.651	
5,500.00	5,495.98	5,536.97	5,524.69	15.84	17.37	-151.612	-258.51	1,099.19	1,283.23	1,257.52	25.71	49.904	
5,600.00	5,595.87	5,636.82	5,624.25	16.16	17.73	-151.384	-265.34	1,095.86	1,284.99	1,258.87	26.13	49.184	
5,700.00	5,695.77	5,736.67	5,723.81	16.48	18.09	-151.156	-272.17	1,092.54	1,286.78	1,260.24	26.54	48.490	
5,800.00	5,795.67	5,836.53	5,823.38	16.80	18.45	-150.929	-279.00	1,089.21	1,288.58	1,261.63	26.95	47.821	
5,900.00	5,895.57	5,936.38	5,922.94	17.12	18.81	-150.703	-285.83	1,085.88	1,290.40	1,263.05	27.35	47.176	
6,000.00	5,995.46	6,036.23	6,022.51	17.44	19.17	-150.478	-292.66	1,082.55	1,292.24	1,264.48	27.76	46.552	
6,100.00	6,095.36	6,136.09	6,122.07	17.76	19.53	-150.253	-299.49	1,079.22	1,294.11	1,265.94	28.16	45.951	
6,200.00	6,195.26	6,235.94	6,221.63	18.09	19.89	-150.028	-306.32	1,075.89	1,295.99	1,267.42	28.57	45.369	
6,300.00	6,295.16	6,335.79	6,321.20	18.41	20.26	-149.805	-313.15	1,072.57	1,297.89	1,268.93	28.97	44.807	
6,400.00	6,395.05	6,435.65	6,420.76	18.73	20.62	-149.582	-319.98	1,069.24	1,299.81	1,270.45	29.37	44.263	
6,500.00	6,494.95	6,535.50	6,520.33	19.06	20.98	-149.360	-326.81	1,065.91	1,301.76	1,271.99	29.76	43.737	
6,600.00	6,594.85	6,635.35	6,619.89	19.38	21.35	-149.138	-333.63	1,062.58	1,303.72	1,273.56	30.16	43.229	
6,700.00	6,694.74	6,735.21	6,719.45	19.70	21.71	-148.917	-340.46	1,059.25	1,305.70	1,275.15	30.55	42.736	
6,800.00	6,794.64	6,835.06	6,819.02	20.03	22.08	-148.697	-347.29	1,055.93	1,307.70	1,276.75	30.95	42.259	
6,900.00	6,894.54	6,934.91	6,918.58	20.35	22.44	-148.477	-354.12	1,052.60	1,309.72	1,278.38	31.34	41.796	
7,000.00	6,994.44	7,034.77	7,018.15	20.68	22.81	-148.258	-360.95	1,049.27	1,311.76	1,280.03	31.72	41.348	
7,100.00	7,094.33	7,134.62	7,117.71	21.00	23.18	-148.040	-367.78	1,045.94	1,313.82	1,281.70	32.11	40.913	
7,200.00	7,194.23	7,234.47	7,217.27	21.33	23.54	-147.822	-374.61	1,042.61	1,315.89	1,283.40	32.50	40.492	
7,300.00	7,294.13	7,334.33	7,316.84	21.65	23.91	-147.605	-381.44	1,039.28	1,317.99	1,285.11	32.88	40.083	
7,400.00	7,394.02	7,434.18	7,416.40	21.98	24.28	-147.389	-388.27	1,035.96	1,320.11	1,286.84	33.26	39.686	
7,500.00	7,493.92	7,534.03	7,515.97	22.30	24.64	-147.174	-395.10	1,032.63	1,322.24	1,288.59	33.64	39.300	
7,600.00	7,593.82	7,633.89	7,615.53	22.63	25.01	-146.959	-401.93	1,029.30	1,324.39	1,290.37	34.02	38.925	
7,700.00	7,693.72	7,733.74	7,715.09	22.95	25.38	-146.745	-408.76	1,025.97	1,326.56	1,292.16	34.40	38.562	
7,800.00	7,793.61	7,833.60	7,814.66	23.28	25.75	-146.531	-415.59	1,022.64	1,328.75	1,293.98	34.78	38.208	
7,900.00	7,893.51	7,933.45	7,914.22	23.61	26.11	-146.319	-422.42	1,019.32	1,330.96	1,295.81	35.15	37.864	
8,000.00	7,993.41	8,033.30	8,013.79	23.93	26.48	-146.107	-429.25	1,015.99	1,333.19	1,297.66	35.52	37.530	
8,100.00	8,093.31	8,133.16	8,113.35	24.26	26.85	-145.895	-436.08	1,012.66	1,335.43	1,299.54	35.89	37.204	
8,200.00	8,193.20	8,233.01	8,212.91	24.59	27.22	-145.685	-442.91	1,009.33	1,337.69	1,301.43	36.26	36.888	
8,300.00	8,293.10	8,332.86	8,312.48	24.92	27.59	-145.475	-449.74	1,006.00	1,339.98	1,303.34	36.63	36.580	
8,400.00	8,393.00	8,432.72	8,412.04	25.24	27.96	-145.266	-456.57	1,002.68	1,342.27	1,305.28	37.00	36.279	
8,500.00	8,492.89	8,532.57	8,511.61	25.57	28.33	-145.057	-463.39	999.35	1,344.59	1,307.23	37.36	35.987	
8,600.00	8,592.79	8,632.42	8,611.17	25.90	28.70	-144.850	-470.22	996.02	1,346.93	1,309.20	37.73	35.702	
8,700.00	8,692.69	8,732.28	8,710.73	26.23	29.07	-144.643	-477.05	992.69	1,349.28	1,311.19	38.09	35.425	
8,800.00	8,792.59	8,832.13	8,810.30	26.55	29.44	-144.436	-483.88	989.36	1,351.65	1,313.20	38.45	35.155	
8,900.00	8,892.48	8,931.98	8,909.86	26.88	29.81	-144.231	-490.71	986.03	1,354.03	1,315.23	38.81	34.891	
9,000.00	8,992.38	9,031.84	9,009.43	27.21	30.18	-144.026	-497.54	982.71	1,356.44	1,317.27	39.17	34.634	
9,100.00	9,092.28	9,131.69	9,108.99	27.54	30.55	-143.822	-504.37	979.38	1,358.86	1,319.34	39.52	34.383	
9,200.00	9,192.17	9,231.54	9,208.55	27.87	30.92	-143.618	-511.20	976.05	1,361.30	1,321.42	39.88	34.138	
9,300.00	9,292.07	9,331.40	9,308.12	28.19	31.29	-143.416	-518.03	972.72	1,363.76	1,323.53	40.23	33.899	
9,400.00	9,391.97	9,431.25	9,407.68	28.52	31.66	-143.214	-524.86	969.39	1,366.23	1,325.65	40.58	33.666	
9,500.00	9,491.87	9,531.10	9,507.25	28.85	32.03	-143.013	-531.69	966.07	1,368.72	1,327.79	40.93	33.438	
9,600.00	9,591.76	9,630.96	9,606.81	29.18	32.40	-142.812	-538.52	962.74	1,371.23	1,329.94	41.28	33.216	
9,700.00	9,691.66	9,730.81	9,706.37	29.51	32.77	-142.612	-545.35	959.41	1,373.75	1,332.12	41.63	32.998	
9,800.00	9,791.56	9,830.66	9,805.94	29.84	33.14	-142.413	-552.18	956.08	1,376.29	1,334.31	41.98	32.786	
9,900.00	9,891.45	9,930.52	9,905.50	30.17	33.51	-142.215	-559.01	952.75	1,378.85	1,336.52	42.32	32.578	
10,000.00	9,991.35	10,030.37	10,005.07	30.50	33.88	-142.018	-565.84	949.43	1,381.42	1,338.75	42.67	32.375	
10,100.00	10,091.25	10,130.22	10,104.63	30.83	34.26	-141.821	-572.67	946.10	1,384.01	1,341.00	43.01	32.177	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 413H - OH - Plan 1 08-31-22												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre	Distance	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,200.00	10,191.15	10,230.08	10,204.19	31.15	34.63	-141.625	-579.50	942.77	1,386.62	1,343.26	43.35	31.983	
10,300.00	10,291.04	10,329.93	10,303.76	31.48	35.00	-141.430	-586.33	939.44	1,389.24	1,345.54	43.70	31.793	
10,400.00	10,390.94	10,429.78	10,403.32	31.81	35.37	-141.235	-593.15	936.11	1,391.88	1,347.84	44.04	31.607	
10,500.00	10,490.84	10,529.64	10,502.89	32.14	35.74	-141.041	-599.98	932.78	1,394.53	1,350.16	44.38	31.426	
10,600.00	10,590.74	10,629.49	10,602.45	32.47	36.12	-140.848	-606.81	929.46	1,397.20	1,352.49	44.71	31.248	
10,700.00	10,690.63	10,729.34	10,702.01	32.80	36.49	-140.656	-613.64	926.13	1,399.89	1,354.84	45.05	31.073	
10,800.00	10,790.53	10,829.20	10,801.58	33.13	36.86	-140.464	-620.47	922.80	1,402.59	1,357.20	45.39	30.903	
10,900.00	10,890.43	10,929.05	10,901.14	33.46	37.23	-140.273	-627.30	919.47	1,405.31	1,359.58	45.72	30.736	
11,000.00	10,990.32	11,028.90	11,000.71	33.79	37.60	-140.083	-634.13	916.14	1,408.04	1,361.98	46.06	30.572	
11,100.00	11,090.22	11,128.76	11,100.27	34.12	37.98	-139.893	-640.96	912.82	1,410.79	1,364.40	46.39	30.411	
11,200.00	11,190.12	11,228.61	11,199.83	34.45	38.35	-139.705	-647.79	909.49	1,413.55	1,366.83	46.72	30.254	
11,300.00	11,290.02	11,328.46	11,299.40	34.78	38.72	-139.517	-654.62	906.16	1,416.33	1,369.28	47.05	30.102	
11,400.00	11,389.91	11,426.44	11,397.11	35.11	39.08	-139.347	-661.00	903.05	1,419.16	1,371.79	47.37	29.961	
11,444.32	11,434.18	11,468.96	11,439.57	35.25	39.23	-139.308	-663.03	902.06	1,420.48	1,372.98	47.51	29.899	
11,500.00	11,489.83	11,522.42	11,493.00	35.42	39.37	-139.297	-664.77	901.21	1,421.82	1,374.15	47.68	29.822	
11,574.22	11,564.04	11,593.71	11,564.28	35.53	39.48	111.247	-665.69	900.76	1,422.46	1,374.66	47.80	29.760	
11,585.42	11,575.24	11,604.67	11,575.24	35.53	39.50	111.247	-665.70	900.76	1,422.46	1,374.66	47.80	29.757	
11,600.00	11,589.82	11,619.25	11,589.82	35.53	39.50	111.247	-665.70	900.76	1,422.46	1,374.66	47.80	29.756	
11,700.00	11,689.82	11,719.25	11,689.82	35.54	39.52	111.247	-665.70	900.76	1,422.46	1,374.62	47.84	29.736	
11,800.00	11,789.82	11,819.25	11,789.82	35.56	39.53	111.247	-665.70	900.76	1,422.46	1,374.59	47.87	29.717	
11,900.00	11,889.82	11,919.25	11,889.82	35.58	39.53	111.247	-665.70	900.76	1,422.46	1,374.56	47.90	29.697	
12,000.00	11,989.82	12,019.25	11,989.82	35.60	39.54	111.247	-665.70	900.76	1,422.46	1,374.53	47.93	29.677	
12,074.22	12,064.04	12,093.47	12,064.04	35.61	39.54	111.247	-665.70	900.76	1,422.46	1,374.51	47.95	29.666	
12,100.00	12,089.81	12,099.47	12,070.04	35.62	39.54	-68.189	-665.70	900.76	1,422.38	1,374.45	47.93	29.674	
12,150.00	12,139.60	12,135.78	12,106.33	35.69	39.62	-68.332	-666.85	900.77	1,421.42	1,373.46	47.96	29.639	
12,200.00	12,188.82	12,150.00	12,120.50	35.77	39.65	-68.520	-667.92	900.78	1,419.86	1,371.83	48.03	29.561	
12,250.00	12,237.08	12,187.84	12,158.06	35.86	39.85	-68.927	-672.50	900.83	1,417.37	1,369.18	48.19	29.411	
12,300.00	12,284.02	12,213.88	12,183.69	35.96	39.99	-69.389	-677.08	900.87	1,414.25	1,365.85	48.40	29.219	
12,350.00	12,329.30	12,250.00	12,218.84	36.06	40.20	-70.044	-685.36	900.95	1,410.53	1,361.87	48.66	28.989	
12,400.00	12,372.55	12,266.04	12,234.27	36.17	40.29	-70.630	-689.74	900.99	1,406.05	1,357.04	49.01	28.692	
12,450.00	12,413.46	12,300.00	12,266.50	36.28	40.50	-71.496	-700.43	901.10	1,401.10	1,351.71	49.38	28.372	
12,500.00	12,451.70	12,318.31	12,283.60	36.40	40.61	-72.269	-706.98	901.16	1,395.56	1,345.70	49.87	27.987	
12,550.00	12,487.00	12,350.00	12,312.66	36.51	40.80	-73.310	-719.60	901.28	1,389.66	1,339.29	50.37	27.588	
12,600.00	12,519.08	12,370.75	12,331.29	36.63	40.92	-74.263	-728.72	901.37	1,383.38	1,332.39	50.99	27.131	
12,650.00	12,547.69	12,400.00	12,356.98	36.75	41.09	-75.429	-742.72	901.51	1,376.86	1,325.23	51.64	26.665	
12,700.00	12,572.62	12,423.41	12,376.99	36.86	41.23	-76.548	-754.85	901.62	1,370.18	1,317.80	52.38	26.158	
12,750.00	12,593.68	12,450.00	12,399.11	36.99	41.38	-77.780	-769.61	901.77	1,363.47	1,310.30	53.17	25.643	
12,800.00	12,610.72	12,476.37	12,420.34	37.11	41.53	-79.047	-785.25	901.92	1,356.81	1,302.78	54.03	25.111	
12,850.00	12,623.59	12,500.00	12,438.74	37.23	41.66	-80.270	-800.08	902.06	1,350.35	1,295.39	54.96	24.568	
12,900.00	12,632.20	12,529.74	12,460.99	37.36	41.81	-81.662	-819.79	902.25	1,344.19	1,288.28	55.92	24.039	
12,950.00	12,636.49	12,550.00	12,475.56	37.49	41.92	-82.790	-833.88	902.39	1,338.50	1,281.52	56.98	23.492	
12,974.22	12,637.00	12,569.70	12,489.23	37.55	42.02	-83.615	-848.06	902.52	1,335.90	1,278.46	57.44	23.258	
13,000.00	12,637.00	12,583.97	12,498.83	37.62	42.09	-84.026	-858.61	902.62	1,333.38	1,275.40	57.98	22.997	
13,100.00	12,637.00	12,650.00	12,539.68	37.92	42.39	-85.785	-910.44	903.13	1,326.17	1,266.15	60.02	22.096	
13,200.00	12,637.00	12,718.66	12,575.55	38.28	42.65	-87.336	-968.93	903.69	1,322.31	1,260.26	62.05	21.311	
13,300.00	12,637.00	12,802.93	12,609.62	38.69	42.91	-88.812	-1,045.92	904.43	1,320.76	1,256.86	63.90	20.671	
13,400.00	12,637.00	12,897.00	12,633.86	39.15	43.12	-89.864	-1,136.71	905.31	1,320.41	1,254.81	65.60	20.128	
13,500.00	12,637.00	12,996.95	12,642.99	39.66	43.23	-90.260	-1,236.11	906.27	1,320.39	1,253.19	67.20	19.649	
13,600.00	12,637.00	13,096.98	12,643.00	40.23	43.30	-90.260	-1,336.13	907.24	1,320.36	1,251.54	68.81	19.188	
13,700.00	12,637.00	13,196.98	12,643.00	40.84	43.39	-90.260	-1,436.12	908.20	1,320.32	1,249.82	70.51	18.726	
13,800.00	12,637.00	13,296.98	12,643.00	41.49	43.50	-90.260	-1,536.12	909.17	1,320.29	1,248.01	72.28	18.267	
13,900.00	12,637.00	13,396.98	12,643.00	42.20	43.62	-90.260	-1,636.11	910.14	1,320.26	1,246.14	74.12	17.813	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 413H - OH - Plan 1 08-31-22												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,000.00	12,637.00	13,496.98	12,643.00	42.94	43.77	-90.260	-1,736.11	911.10	1,320.23	1,244.21	76.02	17.368	
14,100.00	12,637.00	13,596.98	12,643.00	43.73	43.95	-90.260	-1,836.11	912.07	1,320.20	1,242.22	77.97	16.931	
14,200.00	12,637.00	13,696.98	12,643.00	44.55	44.17	-90.260	-1,936.10	913.04	1,320.16	1,240.18	79.99	16.505	
14,300.00	12,637.00	13,796.98	12,643.00	45.41	44.43	-90.260	-2,036.10	914.00	1,320.13	1,238.08	82.05	16.089	
14,400.00	12,637.00	13,896.98	12,643.00	46.30	44.73	-90.260	-2,136.09	914.97	1,320.10	1,235.94	84.16	15.686	
14,500.00	12,637.00	13,996.98	12,643.00	47.23	45.10	-90.260	-2,236.09	915.93	1,320.07	1,233.76	86.31	15.294	
14,600.00	12,637.00	14,096.98	12,643.00	48.18	45.53	-90.260	-2,336.08	916.90	1,320.04	1,231.53	88.50	14.915	
14,700.00	12,637.00	14,196.98	12,643.00	49.16	46.04	-90.260	-2,436.08	917.87	1,320.00	1,229.27	90.73	14.548	
14,800.00	12,637.00	14,296.98	12,643.00	50.17	46.63	-90.260	-2,536.07	918.83	1,319.97	1,226.97	93.00	14.194	
14,900.00	12,637.00	14,396.98	12,643.00	51.19	47.30	-90.260	-2,636.07	919.80	1,319.94	1,224.65	95.29	13.851	
15,000.00	12,637.00	14,496.98	12,643.00	52.25	48.07	-90.260	-2,736.06	920.76	1,319.91	1,222.29	97.62	13.521	
15,100.00	12,637.00	14,596.98	12,643.00	53.32	48.91	-90.260	-2,836.06	921.73	1,319.87	1,219.90	99.97	13.203	
15,200.00	12,637.00	14,696.98	12,643.00	54.41	49.83	-90.260	-2,936.05	922.70	1,319.84	1,217.49	102.35	12.895	
15,300.00	12,637.00	14,796.98	12,643.00	55.51	50.82	-90.260	-3,036.05	923.66	1,319.81	1,215.06	104.75	12.599	
15,400.00	12,637.00	14,896.98	12,643.00	56.64	51.86	-90.260	-3,136.04	924.63	1,319.78	1,212.60	107.18	12.314	
15,500.00	12,637.00	14,996.98	12,643.00	57.78	52.95	-90.260	-3,236.04	925.59	1,319.75	1,210.12	109.63	12.039	
15,600.00	12,637.00	15,096.98	12,643.00	58.93	54.09	-90.260	-3,336.04	926.56	1,319.71	1,207.62	112.09	11.773	
15,700.00	12,637.00	15,196.98	12,643.00	60.10	55.26	-90.260	-3,436.03	927.53	1,319.68	1,205.10	114.58	11.518	
15,800.00	12,637.00	15,296.98	12,643.00	61.28	56.46	-90.261	-3,536.03	928.49	1,319.65	1,202.57	117.08	11.271	
15,900.00	12,637.00	15,396.98	12,643.00	62.47	57.68	-90.261	-3,636.02	929.46	1,319.62	1,200.02	119.60	11.034	
16,000.00	12,637.00	15,496.98	12,643.00	63.67	58.92	-90.261	-3,736.02	930.43	1,319.59	1,197.45	122.13	10.805	
16,100.00	12,637.00	15,596.98	12,643.00	64.88	60.18	-90.261	-3,836.01	931.39	1,319.55	1,194.87	124.68	10.583	
16,200.00	12,637.00	15,696.98	12,643.00	66.11	61.46	-90.261	-3,936.01	932.36	1,319.52	1,192.28	127.24	10.370	
16,300.00	12,637.00	15,796.98	12,643.00	67.34	62.75	-90.261	-4,036.00	933.32	1,319.49	1,189.67	129.82	10.164	
16,400.00	12,637.00	15,896.98	12,643.00	68.58	64.05	-90.261	-4,136.00	934.29	1,319.46	1,187.05	132.40	9.965	
16,500.00	12,637.00	15,996.98	12,643.00	69.82	65.36	-90.261	-4,235.99	935.26	1,319.43	1,184.42	135.00	9.773	
16,600.00	12,637.00	16,096.98	12,643.00	71.08	66.68	-90.261	-4,335.99	936.22	1,319.39	1,181.78	137.61	9.588	
16,700.00	12,637.00	16,196.98	12,643.00	72.34	68.00	-90.261	-4,435.98	937.19	1,319.36	1,179.13	140.23	9.409	
16,800.00	12,637.00	16,296.98	12,643.00	73.61	69.34	-90.261	-4,535.98	938.15	1,319.33	1,176.47	142.86	9.235	
16,900.00	12,637.00	16,396.98	12,643.00	74.88	70.68	-90.261	-4,635.97	939.12	1,319.30	1,173.80	145.50	9.068	
17,000.00	12,637.00	16,496.98	12,643.00	76.16	72.02	-90.261	-4,735.97	940.09	1,319.26	1,171.12	148.14	8.905	
17,100.00	12,637.00	16,596.98	12,643.00	77.45	73.38	-90.261	-4,835.97	941.05	1,319.23	1,168.44	150.80	8.748	
17,200.00	12,637.00	16,696.98	12,643.00	78.74	74.73	-90.261	-4,935.96	942.02	1,319.20	1,165.74	153.46	8.596	
17,300.00	12,637.00	16,796.98	12,643.00	80.04	76.09	-90.261	-5,035.96	942.99	1,319.17	1,163.04	156.13	8.449	
17,400.00	12,637.00	16,896.98	12,643.00	81.34	77.45	-90.261	-5,135.95	943.95	1,319.14	1,160.33	158.80	8.307	
17,500.00	12,637.00	16,996.98	12,643.00	82.65	78.82	-90.261	-5,235.95	944.92	1,319.10	1,157.62	161.49	8.168	
17,600.00	12,637.00	17,096.98	12,643.00	83.96	80.19	-90.261	-5,335.94	945.88	1,319.07	1,154.90	164.18	8.034	
17,700.00	12,637.00	17,196.98	12,643.00	85.27	81.56	-90.261	-5,435.94	946.85	1,319.04	1,152.17	166.87	7.904	
17,800.00	12,637.00	17,296.98	12,643.00	86.59	82.94	-90.261	-5,535.93	947.82	1,319.01	1,149.43	169.57	7.778	
17,900.00	12,637.00	17,396.98	12,643.00	87.91	84.32	-90.261	-5,635.93	948.78	1,318.98	1,146.70	172.28	7.656	
18,000.00	12,637.00	17,496.98	12,643.00	89.24	85.70	-90.261	-5,735.92	949.75	1,318.94	1,143.95	174.99	7.537	
18,100.00	12,637.00	17,596.98	12,643.00	90.57	87.08	-90.261	-5,835.92	950.71	1,318.91	1,141.20	177.71	7.422	
18,200.00	12,637.00	17,696.98	12,643.00	91.90	88.47	-90.261	-5,935.91	951.68	1,318.88	1,138.45	180.43	7.310	
18,300.00	12,637.00	17,796.98	12,643.00	93.24	89.85	-90.261	-6,035.91	952.65	1,318.85	1,135.69	183.16	7.201	
18,400.00	12,637.00	17,896.98	12,643.00	94.58	91.24	-90.261	-6,135.90	953.61	1,318.82	1,132.93	185.89	7.095	
18,500.00	12,637.00	17,996.98	12,643.00	95.92	92.63	-90.261	-6,235.90	954.58	1,318.78	1,130.16	188.62	6.992	
18,600.00	12,637.00	18,096.98	12,643.00	97.26	94.02	-90.261	-6,335.90	955.54	1,318.75	1,127.39	191.36	6.891	
18,700.00	12,637.00	18,196.98	12,643.00	98.61	95.42	-90.261	-6,435.89	956.51	1,318.72	1,124.62	194.10	6.794	
18,800.00	12,637.00	18,296.98	12,643.00	99.96	96.81	-90.261	-6,535.89	957.48	1,318.69	1,121.84	196.85	6.699	
18,900.00	12,637.00	18,396.98	12,643.00	101.31	98.21	-90.261	-6,635.88	958.44	1,318.66	1,119.06	199.60	6.607	
19,000.00	12,637.00	18,496.98	12,643.00	102.67	99.61	-90.261	-6,735.88	959.41	1,318.62	1,116.27	202.35	6.516	
19,100.00	12,637.00	18,596.98	12,643.00	104.02	101.01	-90.261	-6,835.87	960.38	1,318.59	1,113.48	205.11	6.429	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 413H - OH - Plan 1 08-31-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 1.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,200.00	12,637.00	18,696.98	12,643.00	105.38	102.41	-90.261	-6,935.87	961.34	1,318.56	1,110.69	207.87	6.343	
19,300.00	12,637.00	18,796.98	12,643.00	106.74	103.81	-90.261	-7,035.86	962.31	1,318.53	1,107.90	210.63	6.260	
19,400.00	12,637.00	18,896.98	12,643.00	108.11	105.21	-90.261	-7,135.86	963.27	1,318.49	1,105.10	213.40	6.179	
19,500.00	12,637.00	18,996.98	12,643.00	109.47	106.61	-90.261	-7,235.85	964.24	1,318.46	1,102.30	216.16	6.099	
19,600.00	12,637.00	19,096.98	12,643.00	110.84	108.02	-90.261	-7,335.85	965.21	1,318.43	1,099.50	218.93	6.022	
19,700.00	12,637.00	19,196.98	12,643.00	112.20	109.42	-90.261	-7,435.84	966.17	1,318.40	1,096.69	221.71	5.947	
19,800.00	12,637.00	19,296.98	12,643.00	113.57	110.83	-90.261	-7,535.84	967.14	1,318.37	1,093.88	224.48	5.873	
19,900.00	12,637.00	19,396.98	12,643.00	114.95	112.23	-90.261	-7,635.83	968.10	1,318.33	1,091.07	227.26	5.801	
20,000.00	12,637.00	19,496.98	12,643.00	116.32	113.64	-90.261	-7,735.83	969.07	1,318.30	1,088.26	230.04	5.731	
20,100.00	12,637.00	19,596.98	12,643.00	117.69	115.05	-90.261	-7,835.83	970.04	1,318.27	1,085.45	232.82	5.662	
20,200.00	12,637.00	19,696.98	12,643.00	119.07	116.46	-90.261	-7,935.82	971.00	1,318.24	1,082.63	235.61	5.595	
20,300.00	12,637.00	19,796.98	12,643.00	120.45	117.87	-90.261	-8,035.82	971.97	1,318.21	1,079.81	238.40	5.529	
20,400.00	12,637.00	19,896.98	12,643.00	121.83	119.28	-90.261	-8,135.81	972.94	1,318.17	1,076.99	241.19	5.465	
20,500.00	12,637.00	19,996.98	12,643.00	123.21	120.69	-90.261	-8,235.81	973.90	1,318.14	1,074.17	243.98	5.403	
20,600.00	12,637.00	20,096.98	12,643.00	124.59	122.10	-90.261	-8,335.80	974.87	1,318.11	1,071.34	246.77	5.341	
20,700.00	12,637.00	20,196.98	12,643.00	125.97	123.51	-90.261	-8,435.80	975.83	1,318.08	1,068.51	249.56	5.282	
20,800.00	12,637.00	20,296.98	12,643.00	127.35	124.93	-90.261	-8,535.79	976.80	1,318.05	1,065.69	252.36	5.223	
20,900.00	12,637.00	20,396.98	12,643.00	128.74	126.34	-90.261	-8,635.79	977.77	1,318.01	1,062.86	255.16	5.165	
21,000.00	12,637.00	20,496.98	12,643.00	130.12	127.76	-90.261	-8,735.78	978.73	1,317.98	1,060.02	257.96	5.109	
21,100.00	12,637.00	20,596.98	12,643.00	131.51	129.17	-90.261	-8,835.78	979.70	1,317.95	1,057.19	260.76	5.054	
21,200.00	12,637.00	20,696.98	12,643.00	132.90	130.58	-90.261	-8,935.77	980.66	1,317.92	1,054.36	263.56	5.000	
21,300.00	12,637.00	20,796.98	12,643.00	134.29	132.00	-90.261	-9,035.77	981.63	1,317.88	1,051.52	266.36	4.948	
21,400.00	12,637.00	20,896.98	12,643.00	135.68	133.42	-90.261	-9,135.76	982.60	1,317.85	1,048.68	269.17	4.896	
21,500.00	12,637.00	20,996.98	12,643.00	137.07	134.83	-90.261	-9,235.76	983.56	1,317.82	1,045.84	271.98	4.845	
21,600.00	12,637.00	21,096.98	12,643.00	138.46	136.25	-90.261	-9,335.76	984.53	1,317.79	1,043.00	274.79	4.796	
21,700.00	12,637.00	21,196.98	12,643.00	139.85	137.67	-90.261	-9,435.75	985.49	1,317.76	1,040.16	277.59	4.747	
21,800.00	12,637.00	21,296.98	12,643.00	141.25	139.08	-90.261	-9,535.75	986.46	1,317.72	1,037.32	280.41	4.699	
21,900.00	12,637.00	21,396.98	12,643.00	142.64	140.50	-90.261	-9,635.74	987.43	1,317.69	1,034.47	283.22	4.653	
22,000.00	12,637.00	21,496.98	12,643.00	144.04	141.92	-90.261	-9,735.74	988.39	1,317.66	1,031.63	286.03	4.607	
22,100.00	12,637.00	21,596.98	12,643.00	145.43	143.34	-90.261	-9,835.73	989.36	1,317.63	1,028.78	288.85	4.562	
22,200.00	12,637.00	21,696.98	12,643.00	146.83	144.76	-90.261	-9,935.73	990.33	1,317.60	1,025.94	291.66	4.518	
22,300.00	12,637.00	21,796.98	12,643.00	148.23	146.18	-90.261	-10,035.72	991.29	1,317.56	1,023.09	294.48	4.474	
22,400.00	12,637.00	21,896.98	12,643.00	149.63	147.60	-90.261	-10,135.72	992.26	1,317.53	1,020.24	297.29	4.432	
22,500.00	12,637.00	21,996.98	12,643.00	151.02	149.02	-90.261	-10,235.71	993.22	1,317.50	1,017.39	300.11	4.390	
22,600.00	12,637.00	22,096.98	12,643.00	152.42	150.44	-90.261	-10,335.71	994.19	1,317.47	1,014.53	302.93	4.349	
22,700.00	12,637.00	22,196.98	12,643.00	153.83	151.86	-90.261	-10,435.70	995.16	1,317.44	1,011.68	305.75	4.309	
22,702.97	12,637.00	22,199.47	12,643.00	153.87	151.89	-90.261	-10,438.20	995.18	1,317.43	1,011.61	305.83	4.308 ES, SF	
22,800.00	12,637.00	22,199.47	12,643.00	155.23	151.89	-90.261	-10,438.20	995.18	1,321.01	1,014.86	306.15	4.315	
22,900.00	12,637.00	22,199.47	12,643.00	156.63	151.89	-90.261	-10,438.20	995.18	1,332.09	1,027.21	304.88	4.369	
23,000.00	12,637.00	22,199.47	12,643.00	158.03	151.89	-90.261	-10,438.20	995.18	1,350.52	1,048.40	302.11	4.470	
23,100.00	12,637.00	22,199.47	12,643.00	159.43	151.89	-90.261	-10,438.20	995.18	1,375.98	1,077.98	298.00	4.617	
23,124.22	12,637.00	22,199.47	12,643.00	159.77	151.89	-90.261	-10,438.20	995.18	1,383.16	1,086.33	296.82	4.660	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 432H - OH - Plan 1 08-31-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	1.00	1.00	89.523	0.50	60.01	60.01				
100.00	100.00	100.00	100.00	1.08	1.08	89.523	0.50	60.01	60.01	57.84	2.17	27.677	
200.00	200.00	200.00	200.00	1.60	1.60	89.523	0.50	60.01	60.01	56.81	3.20	18.770	
300.00	300.00	300.00	300.00	2.01	2.01	89.523	0.50	60.01	60.01	55.99	4.02	14.931	
400.00	400.00	400.00	400.00	2.35	2.35	89.523	0.50	60.01	60.01	55.31	4.71	12.754	
500.00	500.00	500.00	500.00	2.65	2.65	89.523	0.50	60.01	60.01	54.70	5.31	11.306	
600.00	600.00	600.00	600.00	2.93	2.93	89.523	0.50	60.01	60.01	54.16	5.85	10.252	
700.00	700.00	700.00	700.00	3.18	3.18	89.523	0.50	60.01	60.01	53.65	6.36	9.440	
800.00	800.00	800.00	800.00	3.41	3.41	89.523	0.50	60.01	60.01	53.18	6.83	8.790	
900.00	900.00	900.00	900.00	3.64	3.64	89.523	0.50	60.01	60.01	52.74	7.27	8.254	
1,000.00	1,000.00	1,000.00	1,000.00	3.85	3.85	89.523	0.50	60.01	60.01	52.32	7.69	7.802	
1,100.00	1,100.00	1,100.00	1,100.00	4.05	4.05	89.523	0.50	60.01	60.01	51.92	8.09	7.414	
1,200.00	1,200.00	1,200.00	1,200.00	4.24	4.24	89.523	0.50	60.01	60.01	51.53	8.48	7.076	
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	89.523	0.50	60.01	60.01	51.16	8.85	6.778	
1,400.00	1,400.00	1,400.00	1,400.00	4.61	4.61	89.523	0.50	60.01	60.01	50.80	9.21	6.512	
1,500.00	1,500.00	1,500.00	1,500.00	4.78	4.78	89.523	0.50	60.01	60.01	50.45	9.56	6.274 CC, ES	
1,600.00	1,599.98	1,599.13	1,599.11	5.03	4.98	-160.063	-1.07	60.69	62.34	52.40	9.95	6.268	
1,629.90	1,629.86	1,628.73	1,628.68	5.06	5.01	-159.449	-2.15	61.16	63.96	53.97	9.99	6.404	
1,700.00	1,699.88	1,698.67	1,698.56	5.14	5.08	-158.011	-5.00	62.39	68.24	58.12	10.12	6.744	
1,800.00	1,799.78	1,798.46	1,798.25	5.31	5.24	-156.247	-9.06	64.15	74.41	64.01	10.41	7.151	
1,900.00	1,899.68	1,898.24	1,897.94	5.50	5.41	-154.754	-13.12	65.91	80.65	69.92	10.73	7.518	
2,000.00	1,999.58	1,998.03	1,997.62	5.70	5.61	-153.477	-17.18	67.66	86.93	75.87	11.06	7.858	
2,100.00	2,099.47	2,097.81	2,097.31	5.91	5.81	-152.371	-21.24	69.42	93.25	81.84	11.41	8.172	
2,200.00	2,199.37	2,197.60	2,197.00	6.14	6.03	-151.407	-25.30	71.18	99.59	87.83	11.77	8.463	
2,300.00	2,299.27	2,297.38	2,296.68	6.37	6.26	-150.558	-29.36	72.94	105.97	93.83	12.14	8.730	
2,400.00	2,399.16	2,397.17	2,396.37	6.61	6.49	-149.806	-33.41	74.69	112.36	99.84	12.52	8.977	
2,500.00	2,499.06	2,496.95	2,496.06	6.86	6.74	-149.134	-37.47	76.45	118.77	105.87	12.90	9.204	
2,600.00	2,598.96	2,596.74	2,595.74	7.12	6.99	-148.532	-41.53	78.21	125.20	111.90	13.30	9.414	
2,700.00	2,698.86	2,696.53	2,695.43	7.38	7.24	-147.988	-45.59	79.97	131.63	117.93	13.70	9.607	
2,800.00	2,798.75	2,796.31	2,795.12	7.65	7.51	-147.495	-49.65	81.72	138.08	123.97	14.11	9.785	
2,900.00	2,898.65	2,896.10	2,894.81	7.92	7.77	-147.046	-53.71	83.48	144.54	130.01	14.53	9.950	
3,000.00	2,998.55	2,995.88	2,994.49	8.20	8.05	-146.636	-57.77	85.24	151.00	136.06	14.95	10.102	
3,100.00	3,098.44	3,095.67	3,094.18	8.48	8.32	-146.259	-61.83	87.00	157.48	142.10	15.37	10.243	
3,200.00	3,198.34	3,195.45	3,193.87	8.77	8.60	-145.912	-65.89	88.75	163.96	148.15	15.80	10.374	
3,300.00	3,298.24	3,295.24	3,293.55	9.05	8.89	-145.591	-69.95	90.51	170.44	154.20	16.24	10.495	
3,400.00	3,398.14	3,395.02	3,393.24	9.35	9.17	-145.294	-74.01	92.27	176.93	160.25	16.68	10.608	
3,500.00	3,498.03	3,494.81	3,492.93	9.64	9.46	-145.018	-78.07	94.03	183.42	166.30	17.12	10.713	
3,600.00	3,597.93	3,594.59	3,592.62	9.94	9.75	-144.761	-82.13	95.78	189.92	172.35	17.57	10.810	
3,700.00	3,697.83	3,694.38	3,692.30	10.23	10.05	-144.521	-86.19	97.54	196.42	178.40	18.02	10.901	
3,800.00	3,797.72	3,794.16	3,791.99	10.53	10.35	-144.296	-90.25	99.30	202.93	184.46	18.47	10.986	
3,900.00	3,897.62	3,893.95	3,891.68	10.84	10.64	-144.085	-94.31	101.06	209.43	190.51	18.93	11.066	
4,000.00	3,997.52	3,993.73	3,991.36	11.14	10.95	-143.887	-98.36	102.81	215.94	196.56	19.38	11.140	
4,100.00	4,097.42	4,093.52	4,091.05	11.45	11.25	-143.701	-102.42	104.57	222.46	202.61	19.85	11.210	
4,200.00	4,197.31	4,193.30	4,190.74	11.75	11.55	-143.525	-106.48	106.33	228.97	208.66	20.31	11.275	
4,300.00	4,297.21	4,293.09	4,290.43	12.06	11.86	-143.359	-110.54	108.09	235.49	214.72	20.77	11.337	
4,400.00	4,397.11	4,392.87	4,390.11	12.37	12.16	-143.201	-114.60	109.84	242.01	220.77	21.24	11.394	
4,500.00	4,497.01	4,492.66	4,489.80	12.68	12.47	-143.052	-118.66	111.60	248.53	226.82	21.71	11.449	
4,600.00	4,596.90	4,592.44	4,589.49	13.00	12.78	-142.911	-122.72	113.36	255.05	232.87	22.18	11.500	
4,700.00	4,696.80	4,692.23	4,689.17	13.31	13.09	-142.777	-126.78	115.12	261.57	238.92	22.65	11.549	
4,800.00	4,796.70	4,792.01	4,788.86	13.62	13.40	-142.649	-130.84	116.87	268.10	244.97	23.12	11.594	
4,900.00	4,896.59	4,891.80	4,888.55	13.94	13.71	-142.527	-134.90	118.63	274.62	251.03	23.60	11.638	
5,000.00	4,996.49	4,991.58	4,988.23	14.25	14.02	-142.411	-138.96	120.39	281.15	257.08	24.07	11.679	

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



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Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
5,100.00	5,096.39	5,091.37	5,087.92	14.57	14.34	-142.300	-143.02	122.15	287.68	263.13	24.55	11.718	
5,200.00	5,196.29	5,191.15	5,187.61	14.89	14.65	-142.195	-147.08	123.91	294.21	269.18	25.03	11.755	
5,300.00	5,296.18	5,290.94	5,287.30	15.20	14.97	-142.093	-151.14	125.66	300.74	275.23	25.51	11.790	
5,400.00	5,396.08	5,390.72	5,386.98	15.52	15.28	-141.996	-155.20	127.42	307.27	281.28	25.99	11.823	
5,500.00	5,495.98	5,490.51	5,486.67	15.84	15.60	-141.903	-159.26	129.18	313.80	287.33	26.47	11.855	
5,600.00	5,595.87	5,590.30	5,586.36	16.16	15.91	-141.814	-163.32	130.94	320.33	293.38	26.95	11.885	
5,700.00	5,695.77	5,690.08	5,686.04	16.48	16.23	-141.729	-167.37	132.69	326.87	299.43	27.44	11.913	
5,800.00	5,795.67	5,789.87	5,785.73	16.80	16.55	-141.646	-171.43	134.45	333.40	305.48	27.92	11.941	
5,900.00	5,895.57	5,889.65	5,885.42	17.12	16.87	-141.567	-175.49	136.21	339.94	311.53	28.41	11.967	
6,000.00	5,995.46	5,989.44	5,985.11	17.44	17.18	-141.491	-179.55	137.97	346.47	317.58	28.89	11.992	
6,100.00	6,095.36	6,089.22	6,084.79	17.76	17.50	-141.418	-183.61	139.72	353.01	323.63	29.38	12.016	
6,200.00	6,195.26	6,189.01	6,184.48	18.09	17.82	-141.347	-187.67	141.48	359.55	329.68	29.87	12.039	
6,300.00	6,295.16	6,288.79	6,284.17	18.41	18.14	-141.279	-191.73	143.24	366.08	335.73	30.35	12.060	
6,400.00	6,395.05	6,388.58	6,383.85	18.73	18.46	-141.214	-195.79	145.00	372.62	341.78	30.84	12.081	
6,500.00	6,494.95	6,488.36	6,483.54	19.06	18.78	-141.150	-199.85	146.75	379.16	347.83	31.33	12.101	
6,600.00	6,594.85	6,588.15	6,583.23	19.38	19.10	-141.089	-203.91	148.51	385.70	353.88	31.82	12.121	
6,700.00	6,694.74	6,687.93	6,682.92	19.70	19.42	-141.030	-207.97	150.27	392.24	359.92	32.31	12.139	
6,800.00	6,794.64	6,787.72	6,782.60	20.03	19.75	-140.972	-212.03	152.03	398.77	365.97	32.80	12.157	
6,900.00	6,894.54	6,887.50	6,882.29	20.35	20.07	-140.917	-216.09	153.78	405.31	372.02	33.29	12.174	
7,000.00	6,994.44	6,987.29	6,981.98	20.68	20.39	-140.863	-220.15	155.54	411.85	378.07	33.79	12.190	
7,100.00	7,094.33	7,087.07	7,081.66	21.00	20.71	-140.811	-224.21	157.30	418.40	384.12	34.28	12.206	
7,200.00	7,194.23	7,186.86	7,181.35	21.33	21.03	-140.761	-228.27	159.06	424.94	390.17	34.77	12.221	
7,300.00	7,294.13	7,286.64	7,281.04	21.65	21.36	-140.712	-232.32	160.81	431.48	396.21	35.26	12.236	
7,400.00	7,394.02	7,386.43	7,380.72	21.98	21.68	-140.665	-236.38	162.57	438.02	402.26	35.76	12.250	
7,500.00	7,493.92	7,486.21	7,480.41	22.30	22.00	-140.619	-240.44	164.33	444.56	408.31	36.25	12.264	
7,600.00	7,593.82	7,586.00	7,580.10	22.63	22.33	-140.574	-244.50	166.09	451.10	414.36	36.74	12.277	
7,700.00	7,693.72	7,685.78	7,679.79	22.95	22.65	-140.531	-248.56	167.84	457.64	420.41	37.24	12.289	
7,800.00	7,793.61	7,785.57	7,779.47	23.28	22.97	-140.488	-252.62	169.60	464.19	426.45	37.73	12.302	
7,900.00	7,893.51	7,885.35	7,879.16	23.61	23.30	-140.447	-256.68	171.36	470.73	432.50	38.23	12.313	
8,000.00	7,993.41	7,985.14	7,978.85	23.93	23.62	-140.408	-260.74	173.12	477.27	438.55	38.72	12.325	
8,100.00	8,093.31	8,084.92	8,078.53	24.26	23.95	-140.369	-264.80	174.87	483.82	444.60	39.22	12.336	
8,200.00	8,193.20	8,184.71	8,178.22	24.59	24.27	-140.331	-268.86	176.63	490.36	450.64	39.72	12.346	
8,300.00	8,293.10	8,284.49	8,277.91	24.92	24.59	-140.294	-272.92	178.39	496.90	456.69	40.21	12.357	
8,400.00	8,393.00	8,384.28	8,377.60	25.24	24.92	-140.258	-276.98	180.15	503.45	462.74	40.71	12.367	
8,500.00	8,492.89	8,484.07	8,477.28	25.57	25.24	-140.223	-281.04	181.90	509.99	468.78	41.21	12.376	
8,600.00	8,592.79	8,583.85	8,576.97	25.90	25.57	-140.189	-285.10	183.66	516.54	474.83	41.70	12.386	
8,700.00	8,692.69	8,683.64	8,676.66	26.23	25.89	-140.156	-289.16	185.42	523.08	480.88	42.20	12.395	
8,800.00	8,792.59	8,783.42	8,776.34	26.55	26.22	-140.124	-293.22	187.18	529.62	486.93	42.70	12.404	
8,900.00	8,892.48	8,883.21	8,876.03	26.88	26.55	-140.092	-297.28	188.93	536.17	492.97	43.20	12.412	
9,000.00	8,992.38	8,982.99	8,975.72	27.21	26.87	-140.062	-301.33	190.69	542.71	499.02	43.70	12.420	
9,100.00	9,092.28	9,082.78	9,075.41	27.54	27.20	-140.032	-305.39	192.45	549.26	505.07	44.19	12.429	
9,200.00	9,192.17	9,182.56	9,175.09	27.87	27.52	-140.002	-309.45	194.21	555.80	511.11	44.69	12.436	
9,300.00	9,292.07	9,282.35	9,274.78	28.19	27.85	-139.974	-313.51	195.96	562.35	517.16	45.19	12.444	
9,400.00	9,391.97	9,382.13	9,374.47	28.52	28.17	-139.946	-317.57	197.72	568.89	523.21	45.69	12.451	
9,500.00	9,491.87	9,481.92	9,474.15	28.85	28.50	-139.918	-321.63	199.48	575.44	529.25	46.19	12.458	
9,600.00	9,591.76	9,581.70	9,573.84	29.18	28.83	-139.891	-325.69	201.24	581.99	535.30	46.69	12.465	
9,700.00	9,691.66	9,681.49	9,673.53	29.51	29.15	-139.865	-329.75	202.99	588.53	541.34	47.19	12.472	
9,800.00	9,791.56	9,781.27	9,773.21	29.84	29.48	-139.840	-333.81	204.75	595.08	547.39	47.69	12.479	
9,900.00	9,891.45	9,881.06	9,872.90	30.17	29.80	-139.815	-337.87	206.51	601.62	553.44	48.19	12.485	
10,000.00	9,991.35	9,980.84	9,972.59	30.50	30.13	-139.790	-341.93	208.27	608.17	559.48	48.69	12.491	
10,100.00	10,091.25	10,080.63	10,072.28	30.83	30.46	-139.766	-345.99	210.03	614.72	565.53	49.19	12.497	
10,200.00	10,191.15	10,180.41	10,171.96	31.15	30.78	-139.743	-350.05	211.78	621.26	571.58	49.69	12.503	

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10,300.00	10,291.04	10,280.20	10,271.65	31.48	31.11	-139.720	-354.11	213.54	627.81	577.62	50.19	12.509	
10,400.00	10,390.94	10,379.98	10,371.34	31.81	31.44	-139.697	-358.17	215.30	634.36	583.67	50.69	12.515	
10,500.00	10,490.84	10,479.77	10,471.02	32.14	31.77	-139.675	-362.23	217.06	640.90	589.71	51.19	12.520	
10,600.00	10,590.74	10,579.55	10,570.71	32.47	32.09	-139.654	-366.28	218.81	647.45	595.76	51.69	12.525	
10,700.00	10,690.63	10,679.34	10,670.40	32.80	32.42	-139.632	-370.34	220.57	654.00	601.80	52.19	12.531	
10,800.00	10,790.53	10,779.12	10,770.09	33.13	32.75	-139.612	-374.40	222.33	660.54	607.85	52.69	12.536	
10,900.00	10,890.43	10,878.91	10,869.77	33.46	33.07	-139.591	-378.46	224.09	667.09	613.90	53.19	12.541	
11,000.00	10,990.32	10,978.69	10,969.46	33.79	33.40	-139.571	-382.52	225.84	673.64	619.94	53.70	12.545	
11,100.00	11,090.22	11,078.48	11,069.15	34.12	33.73	-139.552	-386.58	227.60	680.18	625.99	54.20	12.550	
11,200.00	11,190.12	11,178.26	11,168.83	34.45	34.06	-139.533	-390.64	229.36	686.73	632.03	54.70	12.555	
11,300.00	11,290.02	11,278.05	11,268.52	34.78	34.38	-139.514	-394.70	231.12	693.28	638.08	55.20	12.559	
11,400.00	11,389.91	11,377.84	11,368.21	35.11	34.71	-139.495	-398.76	232.87	699.83	644.12	55.70	12.564	
11,444.32	11,434.18	11,422.06	11,412.39	35.25	34.86	-139.487	-400.56	233.65	702.73	646.81	55.92	12.567	
11,500.00	11,489.83	11,477.64	11,467.92	35.42	35.04	-139.491	-402.82	234.63	705.96	649.78	56.18	12.565	
11,574.22	11,564.04	11,551.98	11,542.18	35.53	35.28	111.145	-405.84	235.94	709.00	652.55	56.45	12.560	
11,600.00	11,589.82	11,583.16	11,573.34	35.53	35.37	111.214	-406.95	236.42	709.70	653.17	56.52	12.556	
11,700.00	11,689.82	11,699.66	11,689.82	35.54	35.53	111.304	-408.38	237.04	710.61	653.95	56.66	12.542	
11,800.00	11,789.82	11,799.66	11,789.82	35.56	35.53	111.304	-408.38	237.04	710.61	653.92	56.68	12.536	
11,900.00	11,889.82	11,899.66	11,889.82	35.58	35.54	111.304	-408.38	237.04	710.61	653.89	56.71	12.530	
12,000.00	11,989.82	11,999.66	11,989.82	35.60	35.55	111.304	-408.38	237.04	710.61	653.87	56.74	12.524	
12,074.22	12,064.04	12,073.88	12,064.04	35.61	35.55	111.304	-408.38	237.04	710.61	653.85	56.76	12.520	
12,100.00	12,089.81	12,099.65	12,089.81	35.62	35.55	-68.187	-408.38	237.04	710.39	653.64	56.75	12.518	
12,150.00	12,139.60	12,149.44	12,139.60	35.69	35.55	-68.670	-408.38	237.04	708.76	652.05	56.71	12.498	
12,200.00	12,188.82	12,192.33	12,182.48	35.77	35.57	-69.500	-408.56	237.04	705.69	649.02	56.67	12.453	
12,250.00	12,237.08	12,226.55	12,216.65	35.86	35.70	-70.382	-410.45	237.06	702.08	645.42	56.66	12.391	
12,300.00	12,284.02	12,261.02	12,250.89	35.96	35.86	-71.377	-414.40	237.10	698.16	641.51	56.65	12.323	
12,350.00	12,329.30	12,300.00	12,289.24	36.06	36.09	-72.571	-421.35	237.17	694.03	637.37	56.66	12.249	
12,400.00	12,372.55	12,330.90	12,319.25	36.17	36.29	-73.690	-428.69	237.24	689.71	633.07	56.63	12.178	
12,450.00	12,413.46	12,366.41	12,353.19	36.28	36.51	-74.996	-439.12	237.34	685.33	628.72	56.61	12.106	
12,500.00	12,451.70	12,400.00	12,384.64	36.40	36.72	-76.327	-450.90	237.46	680.99	624.42	56.57	12.038	
12,550.00	12,487.00	12,438.85	12,420.08	36.51	36.96	-77.878	-466.79	237.61	676.77	620.20	56.56	11.965	
12,600.00	12,519.08	12,475.93	12,452.83	36.63	37.19	-79.437	-484.17	237.78	672.78	616.23	56.55	11.898	
12,650.00	12,547.69	12,513.69	12,484.95	36.75	37.42	-81.063	-504.00	237.98	669.12	612.58	56.54	11.834	
12,700.00	12,572.62	12,550.00	12,514.55	36.86	37.63	-82.667	-525.03	238.18	665.91	609.37	56.54	11.778	
12,750.00	12,593.68	12,591.66	12,546.78	36.99	37.87	-84.480	-551.40	238.44	663.23	606.60	56.62	11.713	
12,800.00	12,610.72	12,632.11	12,576.16	37.11	38.08	-86.252	-579.19	238.71	661.19	604.45	56.74	11.653	
12,850.00	12,623.59	12,673.74	12,604.28	37.23	38.29	-88.053	-609.88	239.01	659.89	602.96	56.93	11.592	
12,900.00	12,632.20	12,716.73	12,630.90	37.36	38.49	-89.876	-643.63	239.34	659.39	602.19	57.20	11.528	
12,903.91	12,632.69	12,720.16	12,632.91	37.37	38.50	-90.019	-646.40	239.37	659.39	602.16	57.23	11.522	
12,950.00	12,636.49	12,761.29	12,655.74	37.49	38.68	-91.714	-680.60	239.70	659.77	602.19	57.58	11.459	
12,974.22	12,637.00	12,783.51	12,667.03	37.55	38.76	-92.608	-699.74	239.89	660.28	602.48	57.80	11.424	
13,000.00	12,637.00	12,807.96	12,678.59	37.62	38.85	-93.609	-721.28	240.10	661.02	602.96	58.07	11.384	
13,100.00	12,637.00	12,912.94	12,717.42	37.92	39.15	-96.954	-818.65	241.05	664.66	605.25	59.42	11.187	
13,200.00	12,637.00	13,030.51	12,739.04	38.28	39.35	-98.798	-934.00	242.18	667.23	606.14	61.09	10.921	
13,300.00	12,637.00	13,139.02	12,741.00	38.69	39.42	-98.964	-1,042.45	243.24	667.46	604.81	62.66	10.652	
13,400.00	12,637.00	13,239.02	12,741.00	39.15	39.49	-98.964	-1,142.44	244.22	667.44	603.27	64.17	10.401	
13,500.00	12,637.00	13,339.02	12,741.00	39.66	39.57	-98.965	-1,242.44	245.20	667.42	601.65	65.78	10.146	
13,600.00	12,637.00	13,439.02	12,741.00	40.23	39.66	-98.965	-1,342.44	246.18	667.40	599.94	67.47	9.892	
13,700.00	12,637.00	13,539.02	12,741.00	40.84	39.78	-98.965	-1,442.43	247.16	667.39	598.15	69.23	9.640	
13,800.00	12,637.00	13,639.02	12,741.00	41.49	39.91	-98.965	-1,542.43	248.14	667.37	596.30	71.07	9.390	
13,900.00	12,637.00	13,739.02	12,741.00	42.20	40.08	-98.966	-1,642.42	249.11	667.35	594.38	72.97	9.146	
14,000.00	12,637.00	13,839.02	12,741.00	42.94	40.27	-98.966	-1,742.42	250.09	667.33	592.40	74.93	8.906	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 432H - OH - Plan 1 08-31-22												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,100.00	12,637.00	13,939.02	12,741.00	43.73	40.51	-98.966	-1,842.41	251.07	667.31	590.36	76.94	8.673	
14,200.00	12,637.00	14,039.02	12,741.00	44.55	40.80	-98.966	-1,942.41	252.05	667.29	588.28	79.01	8.446	
14,300.00	12,637.00	14,139.02	12,741.00	45.41	41.15	-98.967	-2,042.40	253.03	667.27	586.15	81.12	8.226	
14,400.00	12,637.00	14,239.02	12,741.00	46.30	41.57	-98.967	-2,142.40	254.01	667.25	583.98	83.27	8.013	
14,500.00	12,637.00	14,339.02	12,741.00	47.23	42.07	-98.967	-2,242.39	254.98	667.23	581.76	85.46	7.807	
14,600.00	12,637.00	14,439.02	12,741.00	48.18	42.67	-98.967	-2,342.39	255.96	667.21	579.51	87.69	7.608	
14,700.00	12,637.00	14,539.02	12,741.00	49.16	43.37	-98.968	-2,442.38	256.94	667.19	577.23	89.96	7.417	
14,800.00	12,637.00	14,639.02	12,741.00	50.17	44.17	-98.968	-2,542.38	257.92	667.17	574.92	92.25	7.232	
14,900.00	12,637.00	14,739.02	12,741.00	51.19	45.05	-98.968	-2,642.37	258.90	667.15	572.57	94.58	7.054	
15,000.00	12,637.00	14,839.02	12,741.00	52.25	46.02	-98.969	-2,742.37	259.88	667.13	570.20	96.93	6.883	
15,100.00	12,637.00	14,939.02	12,741.00	53.32	47.05	-98.969	-2,842.36	260.85	667.11	567.80	99.31	6.718	
15,200.00	12,637.00	15,039.02	12,741.00	54.41	48.14	-98.969	-2,942.36	261.83	667.09	565.38	101.71	6.559	
15,300.00	12,637.00	15,139.02	12,741.00	55.51	49.28	-98.969	-3,042.35	262.81	667.07	562.94	104.13	6.406	
15,400.00	12,637.00	15,239.02	12,741.00	56.64	50.45	-98.970	-3,142.35	263.79	667.05	560.48	106.57	6.259	
15,500.00	12,637.00	15,339.02	12,741.00	57.78	51.66	-98.970	-3,242.34	264.77	667.03	558.00	109.03	6.118	
15,600.00	12,637.00	15,439.02	12,741.00	58.93	52.89	-98.970	-3,342.34	265.75	667.01	555.50	111.51	5.982	
15,700.00	12,637.00	15,539.02	12,741.00	60.10	54.15	-98.970	-3,442.33	266.72	666.99	552.99	114.01	5.850	
15,800.00	12,637.00	15,639.02	12,741.00	61.28	55.42	-98.971	-3,542.33	267.70	666.97	550.45	116.52	5.724	
15,900.00	12,637.00	15,739.02	12,741.00	62.47	56.71	-98.971	-3,642.33	268.68	666.95	547.91	119.04	5.603	
16,000.00	12,637.00	15,839.02	12,741.00	63.67	58.01	-98.971	-3,742.32	269.66	666.93	545.35	121.58	5.485	
16,100.00	12,637.00	15,939.02	12,741.00	64.88	59.32	-98.971	-3,842.32	270.64	666.91	542.78	124.14	5.372	
16,200.00	12,637.00	16,039.02	12,741.00	66.11	60.64	-98.972	-3,942.31	271.62	666.89	540.19	126.70	5.263	
16,300.00	12,637.00	16,139.02	12,741.00	67.34	61.97	-98.972	-4,042.31	272.59	666.87	537.59	129.28	5.158	
16,400.00	12,637.00	16,239.02	12,741.00	68.58	63.31	-98.972	-4,142.30	273.57	666.86	534.99	131.87	5.057	
16,500.00	12,637.00	16,339.02	12,741.00	69.82	64.65	-98.973	-4,242.30	274.55	666.84	532.37	134.47	4.959	
16,600.00	12,637.00	16,439.02	12,741.00	71.08	66.00	-98.973	-4,342.29	275.53	666.82	529.74	137.07	4.865	
16,700.00	12,637.00	16,539.02	12,741.00	72.34	67.36	-98.973	-4,442.29	276.51	666.80	527.11	139.69	4.773	
16,800.00	12,637.00	16,639.02	12,741.00	73.61	68.72	-98.973	-4,542.28	277.49	666.78	524.46	142.31	4.685	
16,900.00	12,637.00	16,739.02	12,741.00	74.88	70.08	-98.974	-4,642.28	278.46	666.76	521.81	144.95	4.600	
17,000.00	12,637.00	16,839.02	12,741.00	76.16	71.45	-98.974	-4,742.27	279.44	666.74	519.15	147.59	4.518	
17,100.00	12,637.00	16,939.02	12,741.00	77.45	72.82	-98.974	-4,842.27	280.42	666.72	516.48	150.24	4.438	
17,200.00	12,637.00	17,039.02	12,741.00	78.74	74.19	-98.974	-4,942.26	281.40	666.70	513.80	152.89	4.361	
17,300.00	12,637.00	17,139.02	12,741.00	80.04	75.57	-98.975	-5,042.26	282.38	666.68	511.12	155.56	4.286	
17,400.00	12,637.00	17,239.02	12,741.00	81.34	76.95	-98.975	-5,142.25	283.36	666.66	508.43	158.22	4.213	
17,500.00	12,637.00	17,339.02	12,741.00	82.65	78.33	-98.975	-5,242.25	284.33	666.64	505.74	160.90	4.143	
17,600.00	12,637.00	17,439.02	12,741.00	83.96	79.72	-98.975	-5,342.24	285.31	666.62	503.04	163.58	4.075	
17,700.00	12,637.00	17,539.02	12,741.00	85.27	81.10	-98.976	-5,442.24	286.29	666.60	500.34	166.26	4.009	
17,800.00	12,637.00	17,639.02	12,741.00	86.59	82.49	-98.976	-5,542.23	287.27	666.58	497.63	168.96	3.945	
17,900.00	12,637.00	17,739.02	12,741.00	87.91	83.88	-98.976	-5,642.23	288.25	666.56	494.91	171.65	3.883	
18,000.00	12,637.00	17,839.02	12,741.00	89.24	85.28	-98.976	-5,742.22	289.23	666.54	492.19	174.35	3.823	
18,100.00	12,637.00	17,939.02	12,741.00	90.57	86.67	-98.977	-5,842.22	290.20	666.52	489.47	177.06	3.764	
18,200.00	12,637.00	18,039.02	12,741.00	91.90	88.07	-98.977	-5,942.22	291.18	666.50	486.74	179.77	3.708	
18,300.00	12,637.00	18,139.02	12,741.00	93.24	89.47	-98.977	-6,042.21	292.16	666.48	484.00	182.48	3.652	
18,400.00	12,637.00	18,239.02	12,741.00	94.58	90.87	-98.978	-6,142.21	293.14	666.46	481.27	185.20	3.599	
18,500.00	12,637.00	18,339.02	12,741.00	95.92	92.27	-98.978	-6,242.20	294.12	666.44	478.53	187.92	3.546	
18,600.00	12,637.00	18,439.02	12,741.00	97.26	93.67	-98.978	-6,342.20	295.10	666.42	475.78	190.64	3.496	
18,700.00	12,637.00	18,539.02	12,741.00	98.61	95.07	-98.978	-6,442.19	296.07	666.40	473.03	193.37	3.446	
18,800.00	12,637.00	18,639.02	12,741.00	99.96	96.47	-98.979	-6,542.19	297.05	666.38	470.28	196.10	3.398	
18,900.00	12,637.00	18,739.02	12,741.00	101.31	97.88	-98.979	-6,642.18	298.03	666.36	467.53	198.84	3.351	
19,000.00	12,637.00	18,839.02	12,741.00	102.67	99.28	-98.979	-6,742.18	299.01	666.34	464.77	201.58	3.306	
19,100.00	12,637.00	18,939.02	12,741.00	104.02	100.69	-98.979	-6,842.17	299.99	666.33	462.01	204.32	3.261	
19,200.00	12,637.00	19,039.02	12,741.00	105.38	102.10	-98.980	-6,942.17	300.97	666.31	459.25	207.06	3.218	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 432H - OH - Plan 1 08-31-22													Offset Site Error:	0.00 usft	
Survey Program:		0-MWD+HRGM		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
19,300.00	12,637.00	19,139.02	12,741.00	106.74	103.51	-98.980	-7,042.16	301.94	666.29	456.48	209.81	3.176			
19,400.00	12,637.00	19,239.02	12,741.00	108.11	104.92	-98.980	-7,142.16	302.92	666.27	453.71	212.55	3.135			
19,500.00	12,637.00	19,339.02	12,741.00	109.47	106.33	-98.980	-7,242.15	303.90	666.25	450.94	215.31	3.094			
19,600.00	12,637.00	19,439.02	12,741.00	110.84	107.74	-98.981	-7,342.15	304.88	666.23	448.17	218.06	3.055			
19,700.00	12,637.00	19,539.02	12,741.00	112.20	109.15	-98.981	-7,442.14	305.86	666.21	445.39	220.82	3.017			
19,800.00	12,637.00	19,639.02	12,741.00	113.57	110.56	-98.981	-7,542.14	306.84	666.19	442.61	223.57	2.980			
19,900.00	12,637.00	19,739.02	12,741.00	114.95	111.98	-98.982	-7,642.13	307.81	666.17	439.83	226.34	2.943			
20,000.00	12,637.00	19,839.02	12,741.00	116.32	113.39	-98.982	-7,742.13	308.79	666.15	437.05	229.10	2.908			
20,100.00	12,637.00	19,939.02	12,741.00	117.69	114.80	-98.982	-7,842.12	309.77	666.13	434.27	231.86	2.873			
20,200.00	12,637.00	20,039.02	12,741.00	119.07	116.22	-98.982	-7,942.12	310.75	666.11	431.48	234.63	2.839			
20,300.00	12,637.00	20,139.02	12,741.00	120.45	117.63	-98.983	-8,042.11	311.73	666.09	428.69	237.40	2.806			
20,400.00	12,637.00	20,239.02	12,741.00	121.83	119.05	-98.983	-8,142.11	312.71	666.07	425.90	240.17	2.773			
20,500.00	12,637.00	20,339.02	12,741.00	123.21	120.47	-98.983	-8,242.11	313.68	666.05	423.11	242.94	2.742			
20,600.00	12,637.00	20,439.02	12,741.00	124.59	121.88	-98.983	-8,342.10	314.66	666.03	420.32	245.71	2.711			
20,700.00	12,637.00	20,539.02	12,741.00	125.97	123.30	-98.984	-8,442.10	315.64	666.01	417.52	248.49	2.680			
20,800.00	12,637.00	20,639.02	12,741.00	127.35	124.72	-98.984	-8,542.09	316.62	665.99	414.72	251.27	2.651			
20,900.00	12,637.00	20,739.02	12,741.00	128.74	126.14	-98.984	-8,642.09	317.60	665.97	411.93	254.05	2.621			
21,000.00	12,637.00	20,839.02	12,741.00	130.12	127.55	-98.984	-8,742.08	318.58	665.95	409.13	256.83	2.593			
21,100.00	12,637.00	20,939.02	12,741.00	131.51	128.97	-98.985	-8,842.08	319.55	665.93	406.33	259.61	2.565			
21,200.00	12,637.00	21,039.02	12,741.00	132.90	130.39	-98.985	-8,942.07	320.53	665.91	403.52	262.39	2.538			
21,300.00	12,637.00	21,139.02	12,741.00	134.29	131.81	-98.985	-9,042.07	321.51	665.89	400.72	265.17	2.511			
21,400.00	12,637.00	21,239.02	12,741.00	135.68	133.23	-98.986	-9,142.06	322.49	665.87	397.91	267.96	2.485			
21,500.00	12,637.00	21,339.02	12,741.00	137.07	134.65	-98.986	-9,242.06	323.47	665.85	395.11	270.75	2.459			
21,600.00	12,637.00	21,439.02	12,741.00	138.46	136.07	-98.986	-9,342.05	324.45	665.83	392.30	273.53	2.434			
21,700.00	12,637.00	21,539.02	12,741.00	139.85	137.50	-98.986	-9,442.05	325.42	665.82	389.49	276.32	2.410			
21,800.00	12,637.00	21,639.02	12,741.00	141.25	138.92	-98.987	-9,542.04	326.40	665.80	386.68	279.11	2.385			
21,900.00	12,637.00	21,739.02	12,741.00	142.64	140.34	-98.987	-9,642.04	327.38	665.78	383.87	281.91	2.362			
22,000.00	12,637.00	21,839.02	12,741.00	144.04	141.76	-98.987	-9,742.03	328.36	665.76	381.06	284.70	2.338			
22,100.00	12,637.00	21,939.02	12,741.00	145.43	143.18	-98.987	-9,842.03	329.34	665.74	378.24	287.49	2.316			
22,200.00	12,637.00	22,039.02	12,741.00	146.83	144.61	-98.988	-9,942.02	330.32	665.72	375.43	290.29	2.293			
22,300.00	12,637.00	22,139.02	12,741.00	148.23	146.03	-98.988	-10,042.02	331.29	665.70	372.61	293.08	2.271			
22,400.00	12,637.00	22,239.02	12,741.00	149.63	147.45	-98.988	-10,142.01	332.27	665.68	369.80	295.88	2.250			
22,500.00	12,637.00	22,339.02	12,741.00	151.02	148.88	-98.989	-10,242.01	333.25	665.66	366.98	298.68	2.229			
22,600.00	12,637.00	22,439.02	12,741.00	152.42	150.30	-98.989	-10,342.00	334.23	665.64	364.16	301.48	2.208			
22,700.00	12,637.00	22,539.02	12,741.00	153.83	151.72	-98.989	-10,442.00	335.21	665.62	361.34	304.28	2.188			
22,800.00	12,637.00	22,639.02	12,741.00	155.23	153.15	-98.989	-10,542.00	336.19	665.60	358.52	307.08	2.168			
22,900.00	12,637.00	22,739.02	12,741.00	156.63	154.57	-98.990	-10,641.99	337.16	665.58	355.70	309.88	2.148			
22,914.21	12,637.00	22,752.88	12,741.00	156.83	154.77	-98.990	-10,655.85	337.30	665.58	355.31	310.27	2.145 SF			
23,000.00	12,637.00	22,752.88	12,741.00	158.03	154.77	-98.990	-10,655.85	337.30	671.11	362.14	308.97	2.172			
23,100.00	12,637.00	22,752.88	12,741.00	159.43	154.77	-98.990	-10,655.85	337.30	691.08	389.20	301.88	2.289			
23,124.22	12,637.00	22,752.88	12,741.00	159.77	154.77	-98.990	-10,655.85	337.30	697.99	398.60	299.39	2.331			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 433H - OH - Plan 1 08-31-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	1.00	0.00	1.00	1.00	89.532	10.54	1,290.18	1,290.22				
100.00	100.00	101.00	100.00	1.08	1.09	89.532	10.54	1,290.18	1,290.22	1,288.05	2.17	594.156	
200.00	200.00	201.00	200.00	1.60	1.60	89.532	10.54	1,290.18	1,290.22	1,287.02	3.20	403.057	
300.00	300.00	301.00	300.00	2.01	2.01	89.532	10.54	1,290.18	1,290.22	1,286.20	4.02	320.748	
400.00	400.00	401.00	400.00	2.35	2.36	89.532	10.54	1,290.18	1,290.22	1,285.51	4.71	274.039	
500.00	500.00	501.00	500.00	2.65	2.66	89.532	10.54	1,290.18	1,290.22	1,284.91	5.31	242.938	
600.00	600.00	601.00	600.00	2.93	2.93	89.532	10.54	1,290.18	1,290.22	1,284.37	5.86	220.309	
700.00	700.00	701.00	700.00	3.18	3.18	89.532	10.54	1,290.18	1,290.22	1,283.86	6.36	202.882	
800.00	800.00	801.00	800.00	3.41	3.42	89.532	10.54	1,290.18	1,290.22	1,283.39	6.83	188.921	
900.00	900.00	901.00	900.00	3.64	3.64	89.532	10.54	1,290.18	1,290.22	1,282.95	7.27	177.406	
1,000.00	1,000.00	1,001.00	1,000.00	3.85	3.85	89.532	10.54	1,290.18	1,290.22	1,282.53	7.69	167.693	
1,100.00	1,100.00	1,101.00	1,100.00	4.05	4.05	89.532	10.54	1,290.18	1,290.22	1,282.13	8.10	159.353	
1,200.00	1,200.00	1,201.00	1,200.00	4.24	4.24	89.532	10.54	1,290.18	1,290.22	1,281.74	8.48	152.090	
1,300.00	1,300.00	1,301.00	1,300.00	4.43	4.43	89.532	10.54	1,290.18	1,290.22	1,281.37	8.86	145.687	
1,400.00	1,400.00	1,401.00	1,400.00	4.61	4.61	89.532	10.54	1,290.18	1,290.22	1,281.01	9.22	139.987	
1,416.33	1,416.33	1,417.33	1,416.33	4.64	4.64	89.532	10.54	1,290.18	1,290.22	1,280.95	9.27	139.125 CC	
1,500.00	1,500.00	1,500.00	1,499.00	4.78	4.78	89.532	10.54	1,290.18	1,290.22	1,280.66	9.56	134.892 ES	
1,600.00	1,599.98	1,586.30	1,585.29	5.03	4.95	-160.957	9.34	1,290.68	1,292.45	1,282.52	9.93	130.181	
1,629.90	1,629.86	1,611.81	1,610.78	5.06	5.05	-160.926	8.53	1,291.02	1,293.97	1,283.97	10.00	129.387	
1,700.00	1,699.88	1,671.51	1,670.41	5.14	5.41	-160.844	5.80	1,292.15	1,298.28	1,288.08	10.20	127.299	
1,800.00	1,799.78	1,766.27	1,764.94	5.31	5.80	-160.643	-0.17	1,294.64	1,305.15	1,294.63	10.52	124.038	
1,900.00	1,899.68	1,865.91	1,864.34	5.50	6.02	-160.427	-6.58	1,297.31	1,312.11	1,301.26	10.85	120.936	
2,000.00	1,999.58	1,965.54	1,963.73	5.70	6.20	-160.214	-12.99	1,299.98	1,319.08	1,307.89	11.18	117.954	
2,100.00	2,099.47	2,065.18	2,063.13	5.91	6.40	-160.003	-19.41	1,302.65	1,326.06	1,314.53	11.53	115.012	
2,200.00	2,199.37	2,164.82	2,162.52	6.14	6.61	-159.794	-25.82	1,305.32	1,333.07	1,321.18	11.89	112.128	
2,300.00	2,299.27	2,264.45	2,261.92	6.37	6.83	-159.587	-32.23	1,307.99	1,340.09	1,327.84	12.26	109.315	
2,400.00	2,399.16	2,364.09	2,361.31	6.61	7.07	-159.383	-38.65	1,310.66	1,347.13	1,334.50	12.64	106.583	
2,500.00	2,499.06	2,463.73	2,460.70	6.86	7.32	-159.180	-45.06	1,313.33	1,354.19	1,341.16	13.03	103.938	
2,600.00	2,598.96	2,563.36	2,560.10	7.12	7.57	-158.980	-51.47	1,316.00	1,361.27	1,347.84	13.43	101.385	
2,700.00	2,698.86	2,663.00	2,659.49	7.38	7.84	-158.782	-57.89	1,318.67	1,368.36	1,354.53	13.83	98.924	
2,800.00	2,798.75	2,762.64	2,758.89	7.65	8.11	-158.586	-64.30	1,321.34	1,375.46	1,361.22	14.25	96.557	
2,900.00	2,898.65	2,862.27	2,858.28	7.92	8.39	-158.391	-70.71	1,324.01	1,382.59	1,367.92	14.66	94.283	
3,000.00	2,998.55	2,961.91	2,957.68	8.20	8.68	-158.199	-77.13	1,326.68	1,389.73	1,374.64	15.09	92.099	
3,100.00	3,098.44	3,061.55	3,057.07	8.48	8.97	-158.009	-83.54	1,329.36	1,396.88	1,381.36	15.52	90.004	
3,200.00	3,198.34	3,161.18	3,156.46	8.77	9.27	-157.821	-89.95	1,332.03	1,404.05	1,388.09	15.96	87.995	
3,300.00	3,298.24	3,260.82	3,255.86	9.05	9.57	-157.634	-96.37	1,334.70	1,411.23	1,394.84	16.40	86.068	
3,400.00	3,398.14	3,360.46	3,355.25	9.35	9.88	-157.450	-102.78	1,337.37	1,418.43	1,401.59	16.84	84.221	
3,500.00	3,498.03	3,460.09	3,454.65	9.64	10.19	-157.267	-109.19	1,340.04	1,425.65	1,408.35	17.29	82.451	
3,600.00	3,597.93	3,559.73	3,554.04	9.94	10.50	-157.086	-115.61	1,342.71	1,432.87	1,415.13	17.74	80.753	
3,700.00	3,697.83	3,659.37	3,653.44	10.23	10.82	-156.907	-122.02	1,345.38	1,440.11	1,421.91	18.20	79.125	
3,800.00	3,797.72	3,759.00	3,752.83	10.53	11.14	-156.730	-128.43	1,348.05	1,447.37	1,428.71	18.66	77.564	
3,900.00	3,897.62	3,858.64	3,852.22	10.84	11.47	-156.555	-134.85	1,350.72	1,454.64	1,435.52	19.12	76.065	
4,000.00	3,997.52	3,958.28	3,951.62	11.14	11.79	-156.381	-141.26	1,353.39	1,461.92	1,442.33	19.59	74.627	
4,100.00	4,097.42	4,057.91	4,051.01	11.45	12.12	-156.209	-147.67	1,356.06	1,469.22	1,449.16	20.06	73.246	
4,200.00	4,197.31	4,157.55	4,150.41	11.75	12.45	-156.039	-154.09	1,358.73	1,476.53	1,456.00	20.53	71.919	
4,300.00	4,297.21	4,257.19	4,249.80	12.06	12.78	-155.870	-160.50	1,361.40	1,483.85	1,462.84	21.00	70.645	
4,400.00	4,397.11	4,356.82	4,349.20	12.37	13.12	-155.703	-166.91	1,364.07	1,491.18	1,469.70	21.48	69.419	
4,500.00	4,497.01	4,456.46	4,448.59	12.68	13.45	-155.538	-173.33	1,366.74	1,498.53	1,476.57	21.96	68.240	
4,600.00	4,596.90	4,556.10	4,547.98	13.00	13.79	-155.374	-179.74	1,369.41	1,505.89	1,483.45	22.44	67.106	
4,700.00	4,696.80	4,655.73	4,647.38	13.31	14.13	-155.212	-186.15	1,372.08	1,513.26	1,490.34	22.92	66.013	
4,800.00	4,796.70	4,755.37	4,746.77	13.62	14.47	-155.052	-192.57	1,374.75	1,520.64	1,497.24	23.41	64.961	
4,900.00	4,896.59	4,855.01	4,846.17	13.94	14.81	-154.893	-198.98	1,377.42	1,528.04	1,504.14	23.90	63.948	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 433H - OH - Plan 1 08-31-22												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,996.49	4,954.65	4,945.56	14.25	15.16	-154.735	-205.39	1,380.09	1,535.45	1,511.06	24.38	62.970	
5,100.00	5,096.39	5,054.28	5,044.96	14.57	15.50	-154.579	-211.81	1,382.77	1,542.87	1,517.99	24.87	62.027	
5,200.00	5,196.29	5,153.92	5,144.35	14.89	15.84	-154.425	-218.22	1,385.44	1,550.29	1,524.93	25.37	61.118	
5,300.00	5,296.18	5,253.56	5,243.74	15.20	16.19	-154.272	-224.63	1,388.11	1,557.74	1,531.88	25.86	60.239	
5,400.00	5,396.08	5,353.19	5,343.14	15.52	16.54	-154.120	-231.05	1,390.78	1,565.19	1,538.83	26.35	59.391	
5,500.00	5,495.98	5,452.83	5,442.53	15.84	16.89	-153.970	-237.46	1,393.45	1,572.65	1,545.80	26.85	58.571	
5,600.00	5,595.87	5,552.47	5,541.93	16.16	17.23	-153.821	-243.87	1,396.12	1,580.12	1,552.77	27.35	57.779	
5,700.00	5,695.77	5,652.10	5,641.32	16.48	17.58	-153.674	-250.29	1,398.79	1,587.61	1,559.76	27.85	57.012	
5,800.00	5,795.67	5,751.74	5,740.72	16.80	17.93	-153.528	-256.70	1,401.46	1,595.10	1,566.75	28.35	56.271	
5,900.00	5,895.57	5,851.38	5,840.11	17.12	18.28	-153.384	-263.11	1,404.13	1,602.60	1,573.76	28.85	55.553	
6,000.00	5,995.46	5,951.01	5,939.50	17.44	18.64	-153.240	-269.53	1,406.80	1,610.12	1,580.77	29.35	54.858	
6,100.00	6,095.36	6,050.65	6,038.90	17.76	18.99	-153.099	-275.94	1,409.47	1,617.64	1,587.79	29.85	54.184	
6,200.00	6,195.26	6,150.29	6,138.29	18.09	19.34	-152.958	-282.35	1,412.14	1,625.18	1,594.82	30.36	53.532	
6,300.00	6,295.16	6,249.92	6,237.69	18.41	19.69	-152.819	-288.77	1,414.81	1,632.72	1,601.86	30.86	52.899	
6,400.00	6,395.05	6,349.56	6,337.08	18.73	20.05	-152.681	-295.18	1,417.48	1,640.27	1,608.90	31.37	52.285	
6,500.00	6,494.95	6,449.20	6,436.48	19.06	20.40	-152.544	-301.59	1,420.15	1,647.84	1,615.96	31.88	51.690	
6,600.00	6,594.85	6,548.83	6,535.87	19.38	20.75	-152.409	-308.01	1,422.82	1,655.41	1,623.02	32.39	51.112	
6,700.00	6,694.74	6,648.47	6,635.26	19.70	21.11	-152.274	-314.42	1,425.49	1,662.99	1,630.09	32.90	50.551	
6,800.00	6,794.64	6,748.11	6,734.66	20.03	21.46	-152.141	-320.83	1,428.16	1,670.58	1,637.17	33.41	50.005	
6,900.00	6,894.54	6,847.74	6,834.05	20.35	21.82	-152.010	-327.24	1,430.83	1,678.18	1,644.26	33.92	49.476	
7,000.00	6,994.44	6,947.38	6,933.45	20.68	22.18	-151.879	-333.66	1,433.51	1,685.78	1,651.35	34.43	48.961	
7,100.00	7,094.33	7,047.02	7,032.84	21.00	22.53	-151.750	-340.07	1,436.18	1,693.40	1,658.46	34.94	48.460	
7,200.00	7,194.23	7,146.65	7,132.24	21.33	22.89	-151.621	-346.48	1,438.85	1,701.02	1,665.57	35.46	47.973	
7,300.00	7,294.13	7,246.29	7,231.63	21.65	23.25	-151.494	-352.90	1,441.52	1,708.66	1,672.69	35.97	47.500	
7,400.00	7,394.02	7,345.93	7,331.02	21.98	23.60	-151.368	-359.31	1,444.19	1,716.30	1,679.81	36.49	47.039	
7,500.00	7,493.92	7,445.56	7,430.42	22.30	23.96	-151.243	-365.72	1,446.86	1,723.95	1,686.95	37.00	46.590	
7,600.00	7,593.82	7,545.20	7,529.81	22.63	24.32	-151.119	-372.14	1,449.53	1,731.61	1,694.09	37.52	46.153	
7,700.00	7,693.72	7,644.84	7,629.21	22.95	24.68	-150.997	-378.55	1,452.20	1,739.27	1,701.24	38.04	45.727	
7,800.00	7,793.61	7,744.47	7,728.60	23.28	25.04	-150.875	-384.96	1,454.87	1,746.95	1,708.39	38.55	45.312	
7,900.00	7,893.51	7,844.11	7,828.00	23.61	25.39	-150.754	-391.38	1,457.54	1,754.63	1,715.56	39.07	44.908	
8,000.00	7,993.41	7,943.75	7,927.39	23.93	25.75	-150.635	-397.79	1,460.21	1,762.32	1,722.73	39.59	44.513	
8,100.00	8,093.31	8,043.39	8,026.78	24.26	26.11	-150.516	-404.20	1,462.88	1,770.01	1,729.90	40.11	44.129	
8,200.00	8,193.20	8,143.02	8,126.18	24.59	26.47	-150.399	-410.62	1,465.55	1,777.72	1,737.09	40.63	43.754	
8,300.00	8,293.10	8,242.66	8,225.57	24.92	26.83	-150.283	-417.03	1,468.22	1,785.43	1,744.28	41.15	43.388	
8,400.00	8,393.00	8,342.30	8,324.97	25.24	27.19	-150.167	-423.44	1,470.89	1,793.15	1,751.47	41.67	43.030	
8,500.00	8,492.89	8,441.93	8,424.36	25.57	27.55	-150.053	-429.86	1,473.56	1,800.87	1,758.68	42.19	42.682	
8,600.00	8,592.79	8,541.57	8,523.76	25.90	27.91	-149.939	-436.27	1,476.23	1,808.61	1,765.89	42.72	42.341	
8,700.00	8,692.69	8,641.21	8,623.15	26.23	28.27	-149.827	-442.68	1,478.90	1,816.35	1,773.11	43.24	42.008	
8,800.00	8,792.59	8,740.84	8,722.54	26.55	28.63	-149.715	-449.10	1,481.57	1,824.09	1,780.33	43.76	41.683	
8,900.00	8,892.48	8,840.48	8,821.94	26.88	28.99	-149.604	-455.51	1,484.24	1,831.85	1,787.56	44.28	41.366	
9,000.00	8,992.38	8,940.12	8,921.33	27.21	29.35	-149.495	-461.92	1,486.92	1,839.61	1,794.80	44.81	41.055	
9,100.00	9,092.28	9,039.75	9,020.73	27.54	29.72	-149.386	-468.34	1,489.59	1,847.37	1,802.04	45.33	40.752	
9,200.00	9,192.17	9,139.39	9,120.12	27.87	30.08	-149.278	-474.75	1,492.26	1,855.15	1,809.29	45.86	40.455	
9,300.00	9,292.07	9,239.03	9,219.52	28.19	30.44	-149.171	-481.16	1,494.93	1,862.93	1,816.54	46.38	40.165	
9,400.00	9,391.97	9,338.66	9,318.91	28.52	30.80	-149.065	-487.58	1,497.60	1,870.71	1,823.81	46.91	39.881	
9,500.00	9,491.87	9,438.30	9,418.30	28.85	31.16	-148.960	-493.99	1,500.27	1,878.51	1,831.07	47.43	39.603	
9,600.00	9,591.76	9,537.94	9,517.70	29.18	31.52	-148.856	-500.40	1,502.94	1,886.31	1,838.35	47.96	39.331	
9,700.00	9,691.66	9,637.57	9,617.09	29.51	31.89	-148.752	-506.82	1,505.61	1,894.11	1,845.62	48.49	39.065	
9,800.00	9,791.56	9,737.21	9,716.49	29.84	32.25	-148.650	-513.23	1,508.28	1,901.92	1,852.91	49.01	38.804	
9,900.00	9,891.45	9,836.85	9,815.88	30.17	32.61	-148.548	-519.64	1,510.95	1,909.74	1,860.20	49.54	38.549	
10,000.00	9,991.35	9,936.48	9,915.28	30.50	32.97	-148.447	-526.06	1,513.62	1,917.56	1,867.49	50.07	38.299	
10,100.00	10,091.25	10,036.12	10,014.67	30.83	33.33	-148.347	-532.47	1,516.29	1,925.39	1,874.80	50.60	38.054	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 433H - OH - Plan 1 08-31-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,200.00	10,191.15	10,135.76	10,114.06	31.15	33.70	-148.247	-538.88	1,518.96	1,933.23	1,882.10	51.12	37.814	
10,300.00	10,291.04	10,235.39	10,213.46	31.48	34.06	-148.149	-545.30	1,521.63	1,941.07	1,889.41	51.65	37.579	
10,400.00	10,390.94	10,335.03	10,312.85	31.81	34.42	-148.051	-551.71	1,524.30	1,948.91	1,896.73	52.18	37.349	
10,500.00	10,490.84	10,434.67	10,412.25	32.14	34.78	-147.954	-558.12	1,526.97	1,956.77	1,904.06	52.71	37.123	
10,600.00	10,590.74	10,534.30	10,511.64	32.47	35.15	-147.858	-564.54	1,529.64	1,964.62	1,911.38	53.24	36.901	
10,700.00	10,690.63	10,633.94	10,611.04	32.80	35.51	-147.763	-570.95	1,532.31	1,972.49	1,918.72	53.77	36.684	
10,800.00	10,790.53	10,733.58	10,710.43	33.13	35.87	-147.668	-577.36	1,534.98	1,980.35	1,926.05	54.30	36.471	
10,900.00	10,890.43	10,833.21	10,809.82	33.46	36.24	-147.574	-583.78	1,537.65	1,988.23	1,933.40	54.83	36.261	
11,000.00	10,990.32	10,932.85	10,909.22	33.79	36.60	-147.481	-590.19	1,540.33	1,996.11	1,940.75	55.36	36.056	
11,100.00	11,090.22	11,032.49	11,008.61	34.12	36.96	-147.389	-596.60	1,543.00	2,003.99	1,948.10	55.89	35.855	
11,200.00	11,190.12	11,132.12	11,108.01	34.45	37.33	-147.297	-603.02	1,545.67	2,011.88	1,955.46	56.42	35.657	
11,300.00	11,290.02	11,231.76	11,207.40	34.78	37.69	-147.206	-609.43	1,548.34	2,019.78	1,962.82	56.95	35.463	
11,400.00	11,389.91	11,331.40	11,306.80	35.11	38.05	-147.116	-615.84	1,551.01	2,027.68	1,970.19	57.49	35.273	
11,444.32	11,434.18	11,375.55	11,350.84	35.25	38.22	-147.076	-618.68	1,552.19	2,031.18	1,973.46	57.71	35.193	
11,500.00	11,489.83	11,431.06	11,406.21	35.42	38.42	-147.061	-622.26	1,553.68	2,035.13	1,977.13	58.00	35.090	
11,574.22	11,564.04	11,505.09	11,480.06	35.53	38.69	103.536	-627.02	1,555.66	2,038.99	1,980.70	58.28	34.984	
11,600.00	11,589.82	11,545.69	11,520.58	35.53	38.83	103.595	-629.43	1,556.67	2,039.97	1,981.59	58.38	34.943	
11,700.00	11,689.82	11,715.02	11,689.82	35.54	39.34	103.702	-633.80	1,558.48	2,041.59	1,982.87	58.72	34.768	
11,800.00	11,789.82	11,815.02	11,789.82	35.56	39.34	103.702	-633.80	1,558.48	2,041.59	1,982.85	58.74	34.757	
11,900.00	11,889.82	11,915.02	11,889.82	35.58	39.35	103.702	-633.80	1,558.48	2,041.59	1,982.83	58.76	34.742	
12,000.00	11,989.82	12,015.02	11,989.82	35.60	39.35	103.702	-633.80	1,558.48	2,041.59	1,982.80	58.79	34.727	
12,074.22	12,064.04	12,089.24	12,064.04	35.61	39.36	103.702	-633.80	1,558.48	2,041.59	1,982.79	58.80	34.718	
12,100.00	12,089.81	12,115.01	12,089.81	35.62	39.36	-75.756	-633.80	1,558.48	2,041.45	1,982.65	58.80	34.720	
12,150.00	12,139.60	12,164.80	12,139.60	35.69	39.36	-75.981	-633.80	1,558.48	2,040.36	1,981.60	58.76	34.721	
12,200.00	12,188.82	12,210.24	12,185.04	35.77	39.36	-76.399	-633.80	1,558.48	2,038.25	1,979.53	58.72	34.712	
12,250.00	12,237.08	12,238.64	12,213.43	35.86	39.41	-76.852	-634.50	1,558.49	2,035.46	1,976.78	58.68	34.686	
12,300.00	12,284.02	12,265.04	12,239.76	35.96	39.51	-77.362	-636.42	1,558.51	2,032.29	1,973.63	58.65	34.649	
12,350.00	12,329.30	12,300.00	12,274.43	36.06	39.69	-78.013	-640.81	1,558.55	2,028.79	1,970.14	58.65	34.592	
12,400.00	12,372.55	12,317.97	12,292.14	36.17	39.79	-78.571	-643.89	1,558.58	2,024.94	1,966.32	58.61	34.547	
12,450.00	12,413.46	12,350.00	12,323.42	36.28	39.98	-79.322	-650.76	1,558.65	2,020.88	1,962.27	58.62	34.476	
12,500.00	12,451.70	12,371.13	12,343.82	36.40	40.11	-79.998	-656.24	1,558.70	2,016.62	1,958.03	58.59	34.416	
12,550.00	12,487.00	12,400.00	12,371.35	36.51	40.29	-80.808	-664.93	1,558.78	2,012.26	1,953.66	58.60	34.337	
12,600.00	12,519.08	12,424.59	12,394.42	36.63	40.45	-81.594	-673.42	1,558.86	2,007.85	1,949.24	58.61	34.256	
12,650.00	12,547.69	12,450.00	12,417.86	36.75	40.60	-82.415	-683.23	1,558.96	2,003.47	1,944.84	58.63	34.170	
12,700.00	12,572.62	12,478.47	12,443.58	36.86	40.78	-83.301	-695.44	1,559.08	1,999.20	1,940.50	58.69	34.063	
12,750.00	12,593.68	12,500.00	12,462.61	36.99	40.91	-84.075	-705.51	1,559.17	1,995.12	1,936.40	58.72	33.976	
12,800.00	12,610.72	12,532.91	12,490.93	37.11	41.11	-85.051	-722.28	1,559.33	1,991.28	1,932.43	58.86	33.833	
12,850.00	12,623.59	12,560.41	12,513.82	37.23	41.28	-85.922	-737.51	1,559.48	1,987.81	1,928.83	58.98	33.705	
12,900.00	12,632.20	12,588.15	12,536.14	37.36	41.44	-86.779	-753.96	1,559.64	1,984.77	1,925.64	59.13	33.565	
12,950.00	12,636.49	12,616.16	12,557.84	37.49	41.59	-87.613	-771.66	1,559.81	1,982.24	1,922.92	59.32	33.416	
12,974.22	12,637.00	12,629.84	12,568.13	37.55	41.67	-88.006	-780.69	1,559.90	1,981.22	1,921.80	59.42	33.341	
13,000.00	12,637.00	12,644.87	12,579.17	37.62	41.75	-88.326	-790.88	1,560.00	1,980.32	1,920.77	59.54	33.258	
13,100.00	12,637.00	12,712.00	12,625.08	37.92	42.09	-89.655	-839.81	1,560.47	1,978.56	1,918.37	60.19	32.871	
13,126.60	12,637.00	12,732.48	12,637.91	38.01	42.18	-90.026	-855.76	1,560.62	1,978.49	1,918.07	60.42	32.745	
13,200.00	12,637.00	12,795.32	12,673.61	38.28	42.46	-91.060	-907.44	1,561.12	1,978.93	1,917.77	61.16	32.357	
13,300.00	12,637.00	12,896.51	12,718.60	38.69	42.80	-92.362	-997.93	1,561.99	1,980.36	1,917.86	62.51	31.683	
13,400.00	12,637.00	13,013.71	12,749.89	39.15	43.06	-93.266	-1,110.65	1,563.07	1,981.70	1,917.49	64.21	30.863	
13,500.00	12,637.00	13,133.37	12,758.00	39.66	43.17	-93.500	-1,229.85	1,564.22	1,982.05	1,916.00	66.05	30.008	
13,600.00	12,637.00	13,233.37	12,758.00	40.23	43.23	-93.500	-1,329.85	1,565.18	1,982.01	1,914.30	67.71	29.271	
13,700.00	12,637.00	13,333.37	12,758.00	40.84	43.30	-93.500	-1,429.84	1,566.14	1,981.98	1,912.52	69.46	28.536	
13,800.00	12,637.00	13,433.37	12,758.00	41.49	43.39	-93.500	-1,529.84	1,567.11	1,981.94	1,910.67	71.27	27.808	
13,900.00	12,637.00	13,533.37	12,758.00	42.20	43.49	-93.500	-1,629.83	1,568.07	1,981.91	1,908.75	73.15	27.092	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 433H - OH - Plan 1 08-31-22												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,000.00	12,637.00	13,633.37	12,758.00	42.94	43.61	-93.500	-1,729.83	1,569.03	1,981.87	1,906.77	75.10	26.391	
14,100.00	12,637.00	13,733.37	12,758.00	43.73	43.75	-93.500	-1,829.82	1,569.99	1,981.83	1,904.74	77.10	25.706	
14,200.00	12,637.00	13,833.37	12,758.00	44.55	43.92	-93.500	-1,929.82	1,570.96	1,981.80	1,902.65	79.15	25.039	
14,300.00	12,637.00	13,933.37	12,758.00	45.41	44.12	-93.500	-2,029.81	1,571.92	1,981.76	1,900.51	81.25	24.391	
14,400.00	12,637.00	14,033.37	12,758.00	46.30	44.37	-93.501	-2,129.81	1,572.88	1,981.73	1,898.33	83.39	23.764	
14,500.00	12,637.00	14,133.37	12,758.00	47.23	44.67	-93.501	-2,229.80	1,573.84	1,981.69	1,896.11	85.58	23.156	
14,600.00	12,637.00	14,233.37	12,758.00	48.18	45.04	-93.501	-2,329.80	1,574.81	1,981.66	1,893.85	87.80	22.569	
14,700.00	12,637.00	14,333.37	12,758.00	49.16	45.47	-93.501	-2,429.79	1,575.77	1,981.62	1,891.56	90.06	22.003	
14,800.00	12,637.00	14,433.37	12,758.00	50.17	46.00	-93.501	-2,529.79	1,576.73	1,981.58	1,889.23	92.35	21.456	
14,900.00	12,637.00	14,533.37	12,758.00	51.19	46.62	-93.501	-2,629.79	1,577.69	1,981.55	1,886.87	94.68	20.930	
15,000.00	12,637.00	14,633.37	12,758.00	52.25	47.34	-93.501	-2,729.78	1,578.66	1,981.51	1,884.49	97.03	20.422	
15,100.00	12,637.00	14,733.37	12,758.00	53.32	48.16	-93.501	-2,829.78	1,579.62	1,981.48	1,882.07	99.40	19.934	
15,200.00	12,637.00	14,833.37	12,758.00	54.41	49.07	-93.501	-2,929.77	1,580.58	1,981.44	1,879.64	101.81	19.463	
15,300.00	12,637.00	14,933.37	12,758.00	55.51	50.06	-93.501	-3,029.77	1,581.54	1,981.41	1,877.18	104.23	19.010	
15,400.00	12,637.00	15,033.37	12,758.00	56.64	51.11	-93.501	-3,129.76	1,582.51	1,981.37	1,874.69	106.68	18.574	
15,500.00	12,637.00	15,133.37	12,758.00	57.78	52.21	-93.501	-3,229.76	1,583.47	1,981.33	1,872.19	109.14	18.154	
15,600.00	12,637.00	15,233.37	12,758.00	58.93	53.37	-93.501	-3,329.75	1,584.43	1,981.30	1,869.67	111.63	17.749	
15,700.00	12,637.00	15,333.37	12,758.00	60.10	54.55	-93.501	-3,429.75	1,585.39	1,981.26	1,867.13	114.13	17.360	
15,800.00	12,637.00	15,433.37	12,758.00	61.28	55.77	-93.501	-3,529.74	1,586.36	1,981.23	1,864.58	116.65	16.985	
15,900.00	12,637.00	15,533.37	12,758.00	62.47	57.01	-93.501	-3,629.74	1,587.32	1,981.19	1,862.01	119.18	16.623	
16,000.00	12,637.00	15,633.37	12,758.00	63.67	58.28	-93.502	-3,729.73	1,588.28	1,981.16	1,859.43	121.73	16.275	
16,100.00	12,637.00	15,733.37	12,758.00	64.88	59.56	-93.502	-3,829.73	1,589.24	1,981.12	1,856.83	124.29	15.939	
16,200.00	12,637.00	15,833.37	12,758.00	66.11	60.85	-93.502	-3,929.72	1,590.21	1,981.08	1,854.22	126.87	15.615	
16,300.00	12,637.00	15,933.37	12,758.00	67.34	62.16	-93.502	-4,029.72	1,591.17	1,981.05	1,851.59	129.45	15.303	
16,400.00	12,637.00	16,033.37	12,758.00	68.58	63.48	-93.502	-4,129.72	1,592.13	1,981.01	1,848.96	132.05	15.002	
16,500.00	12,637.00	16,133.37	12,758.00	69.82	64.80	-93.502	-4,229.71	1,593.09	1,980.98	1,846.32	134.66	14.711	
16,600.00	12,637.00	16,233.37	12,758.00	71.08	66.14	-93.502	-4,329.71	1,594.06	1,980.94	1,843.66	137.28	14.430	
16,700.00	12,637.00	16,333.37	12,758.00	72.34	67.48	-93.502	-4,429.70	1,595.02	1,980.91	1,841.00	139.91	14.159	
16,800.00	12,637.00	16,433.37	12,758.00	73.61	68.82	-93.502	-4,529.70	1,595.98	1,980.87	1,838.32	142.55	13.896	
16,900.00	12,637.00	16,533.37	12,758.00	74.88	70.18	-93.502	-4,629.69	1,596.94	1,980.83	1,835.64	145.19	13.643	
17,000.00	12,637.00	16,633.37	12,758.00	76.16	71.54	-93.502	-4,729.69	1,597.90	1,980.80	1,832.95	147.85	13.398	
17,100.00	12,637.00	16,733.37	12,758.00	77.45	72.90	-93.502	-4,829.68	1,598.87	1,980.76	1,830.25	150.51	13.160	
17,200.00	12,637.00	16,833.37	12,758.00	78.74	74.26	-93.502	-4,929.68	1,599.83	1,980.73	1,827.55	153.18	12.931	
17,300.00	12,637.00	16,933.37	12,758.00	80.04	75.63	-93.502	-5,029.67	1,600.79	1,980.69	1,824.84	155.85	12.709	
17,400.00	12,637.00	17,033.37	12,758.00	81.34	77.01	-93.502	-5,129.67	1,601.75	1,980.66	1,822.12	158.54	12.493	
17,500.00	12,637.00	17,133.37	12,758.00	82.65	78.38	-93.502	-5,229.66	1,602.72	1,980.62	1,819.39	161.23	12.285	
17,600.00	12,637.00	17,233.37	12,758.00	83.96	79.76	-93.503	-5,329.66	1,603.68	1,980.58	1,816.66	163.92	12.083	
17,700.00	12,637.00	17,333.37	12,758.00	85.27	81.14	-93.503	-5,429.66	1,604.64	1,980.55	1,813.93	166.62	11.886	
17,800.00	12,637.00	17,433.37	12,758.00	86.59	82.53	-93.503	-5,529.65	1,605.60	1,980.51	1,811.18	169.33	11.696	
17,900.00	12,637.00	17,533.37	12,758.00	87.91	83.91	-93.503	-5,629.65	1,606.57	1,980.48	1,808.44	172.04	11.512	
18,000.00	12,637.00	17,633.37	12,758.00	89.24	85.30	-93.503	-5,729.64	1,607.53	1,980.44	1,805.68	174.76	11.333	
18,100.00	12,637.00	17,733.37	12,758.00	90.57	86.69	-93.503	-5,829.64	1,608.49	1,980.41	1,802.93	177.48	11.159	
18,200.00	12,637.00	17,833.37	12,758.00	91.90	88.09	-93.503	-5,929.63	1,609.45	1,980.37	1,800.17	180.20	10.990	
18,300.00	12,637.00	17,933.37	12,758.00	93.24	89.48	-93.503	-6,029.63	1,610.42	1,980.33	1,797.40	182.93	10.825	
18,400.00	12,637.00	18,033.37	12,758.00	94.58	90.87	-93.503	-6,129.62	1,611.38	1,980.30	1,794.63	185.67	10.666	
18,500.00	12,637.00	18,133.37	12,758.00	95.92	92.27	-93.503	-6,229.62	1,612.34	1,980.26	1,791.86	188.40	10.511	
18,600.00	12,637.00	18,233.37	12,758.00	97.26	93.67	-93.503	-6,329.61	1,613.30	1,980.23	1,789.08	191.15	10.360	
18,700.00	12,637.00	18,333.37	12,758.00	98.61	95.07	-93.503	-6,429.61	1,614.27	1,980.19	1,786.30	193.89	10.213	
18,800.00	12,637.00	18,433.37	12,758.00	99.96	96.47	-93.503	-6,529.60	1,615.23	1,980.16	1,783.52	196.64	10.070	
18,900.00	12,637.00	18,533.37	12,758.00	101.31	97.87	-93.503	-6,629.60	1,616.19	1,980.12	1,780.73	199.39	9.931	
19,000.00	12,637.00	18,633.37	12,758.00	102.67	99.27	-93.503	-6,729.59	1,617.15	1,980.08	1,777.94	202.15	9.795	
19,100.00	12,637.00	18,733.37	12,758.00	104.02	100.68	-93.504	-6,829.59	1,618.12	1,980.05	1,775.14	204.91	9.663	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 433H - OH - Plan 1 08-31-22												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,200.00	12,637.00	18,833.37	12,758.00	105.38	102.08	-93.504	-6,929.59	1,619.08	1,980.01	1,772.35	207.67	9.535	
19,300.00	12,637.00	18,933.37	12,758.00	106.74	103.49	-93.504	-7,029.58	1,620.04	1,979.98	1,769.55	210.43	9.409	
19,400.00	12,637.00	19,033.37	12,758.00	108.11	104.90	-93.504	-7,129.58	1,621.00	1,979.94	1,766.74	213.20	9.287	
19,500.00	12,637.00	19,133.37	12,758.00	109.47	106.31	-93.504	-7,229.57	1,621.97	1,979.91	1,763.94	215.97	9.168	
19,600.00	12,637.00	19,233.37	12,758.00	110.84	107.71	-93.504	-7,329.57	1,622.93	1,979.87	1,761.13	218.74	9.051	
19,700.00	12,637.00	19,333.37	12,758.00	112.20	109.12	-93.504	-7,429.56	1,623.89	1,979.83	1,758.32	221.51	8.938	
19,800.00	12,637.00	19,433.37	12,758.00	113.57	110.53	-93.504	-7,529.56	1,624.85	1,979.80	1,755.51	224.29	8.827	
19,900.00	12,637.00	19,533.37	12,758.00	114.95	111.94	-93.504	-7,629.55	1,625.82	1,979.76	1,752.69	227.07	8.719	
20,000.00	12,637.00	19,633.37	12,758.00	116.32	113.36	-93.504	-7,729.55	1,626.78	1,979.73	1,749.88	229.85	8.613	
20,100.00	12,637.00	19,733.37	12,758.00	117.69	114.77	-93.504	-7,829.54	1,627.74	1,979.69	1,747.06	232.63	8.510	
20,200.00	12,637.00	19,833.37	12,758.00	119.07	116.18	-93.504	-7,929.54	1,628.70	1,979.66	1,744.24	235.42	8.409	
20,300.00	12,637.00	19,933.37	12,758.00	120.45	117.60	-93.504	-8,029.53	1,629.66	1,979.62	1,741.41	238.21	8.310	
20,400.00	12,637.00	20,033.37	12,758.00	121.83	119.01	-93.504	-8,129.53	1,630.63	1,979.58	1,738.59	241.00	8.214	
20,500.00	12,637.00	20,133.37	12,758.00	123.21	120.42	-93.504	-8,229.53	1,631.59	1,979.55	1,735.76	243.79	8.120	
20,600.00	12,637.00	20,233.37	12,758.00	124.59	121.84	-93.504	-8,329.52	1,632.55	1,979.51	1,732.93	246.58	8.028	
20,700.00	12,637.00	20,333.37	12,758.00	125.97	123.25	-93.505	-8,429.52	1,633.51	1,979.48	1,730.10	249.37	7.938	
20,800.00	12,637.00	20,433.37	12,758.00	127.35	124.67	-93.505	-8,529.51	1,634.48	1,979.44	1,727.27	252.17	7.850	
20,900.00	12,637.00	20,533.37	12,758.00	128.74	126.09	-93.505	-8,629.51	1,635.44	1,979.41	1,724.44	254.97	7.763	
21,000.00	12,637.00	20,633.37	12,758.00	130.12	127.50	-93.505	-8,729.50	1,636.40	1,979.37	1,721.60	257.77	7.679	
21,100.00	12,637.00	20,733.37	12,758.00	131.51	128.92	-93.505	-8,829.50	1,637.36	1,979.33	1,718.77	260.57	7.596	
21,200.00	12,637.00	20,833.37	12,758.00	132.90	130.34	-93.505	-8,929.49	1,638.33	1,979.30	1,715.93	263.37	7.515	
21,300.00	12,637.00	20,933.37	12,758.00	134.29	131.76	-93.505	-9,029.49	1,639.29	1,979.26	1,713.09	266.17	7.436	
21,400.00	12,637.00	21,033.37	12,758.00	135.68	133.18	-93.505	-9,129.48	1,640.25	1,979.23	1,710.25	268.98	7.358	
21,500.00	12,637.00	21,133.37	12,758.00	137.07	134.60	-93.505	-9,229.48	1,641.21	1,979.19	1,707.41	271.78	7.282	
21,600.00	12,637.00	21,233.37	12,758.00	138.46	136.02	-93.505	-9,329.47	1,642.18	1,979.16	1,704.56	274.59	7.208	
21,700.00	12,637.00	21,333.37	12,758.00	139.85	137.44	-93.505	-9,429.47	1,643.14	1,979.12	1,701.72	277.40	7.135	
21,800.00	12,637.00	21,433.37	12,758.00	141.25	138.86	-93.505	-9,529.47	1,644.10	1,979.08	1,698.87	280.21	7.063	
21,900.00	12,637.00	21,533.37	12,758.00	142.64	140.28	-93.505	-9,629.46	1,645.06	1,979.05	1,696.03	283.02	6.993	
22,000.00	12,637.00	21,633.37	12,758.00	144.04	141.70	-93.505	-9,729.46	1,646.03	1,979.01	1,693.18	285.83	6.924	
22,100.00	12,637.00	21,733.37	12,758.00	145.43	143.12	-93.505	-9,829.45	1,646.99	1,978.98	1,690.33	288.65	6.856	
22,200.00	12,637.00	21,833.37	12,758.00	146.83	144.54	-93.505	-9,929.45	1,647.95	1,978.94	1,687.48	291.46	6.790	
22,300.00	12,637.00	21,933.37	12,758.00	148.23	145.96	-93.506	-10,029.44	1,648.91	1,978.91	1,684.63	294.28	6.725	
22,400.00	12,637.00	22,033.37	12,758.00	149.63	147.38	-93.506	-10,129.44	1,649.88	1,978.87	1,681.78	297.09	6.661	
22,492.34	12,637.00	22,125.24	12,758.00	150.92	148.69	-93.506	-10,221.31	1,650.76	1,978.84	1,679.15	299.69	6.603	
22,500.00	12,637.00	22,125.24	12,758.00	151.02	148.69	-93.506	-10,221.31	1,650.76	1,978.85	1,679.06	299.79	6.601	
22,600.00	12,637.00	22,125.24	12,758.00	152.42	148.69	-93.506	-10,221.31	1,650.76	1,981.75	1,681.05	300.70	6.590 SF	
22,700.00	12,637.00	22,125.24	12,758.00	153.83	148.69	-93.506	-10,221.31	1,650.76	1,989.68	1,688.77	300.91	6.612	
22,800.00	12,637.00	22,125.24	12,758.00	155.23	148.69	-93.506	-10,221.31	1,650.76	2,002.57	1,702.16	300.41	6.666	
22,900.00	12,637.00	22,125.24	12,758.00	156.63	148.69	-93.506	-10,221.31	1,650.76	2,020.34	1,721.08	299.26	6.751	
23,000.00	12,637.00	22,125.24	12,758.00	158.03	148.69	-93.506	-10,221.31	1,650.76	2,042.86	1,745.37	297.48	6.867	
23,100.00	12,637.00	22,125.24	12,758.00	159.43	148.69	-93.506	-10,221.31	1,650.76	2,069.96	1,774.82	295.14	7.013	
23,124.22	12,637.00	22,125.24	12,758.00	159.77	148.69	-93.506	-10,221.31	1,650.76	2,077.20	1,782.70	294.50	7.053	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 512H - OH - Plan 1 08-31-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	1.00	1.00	89.465	0.28	30.01	30.01				
100.00	100.00	100.00	100.00	1.08	1.08	89.465	0.28	30.01	30.01	27.84	2.17	13.841	
200.00	200.00	200.00	200.00	1.60	1.60	89.465	0.28	30.01	30.01	26.81	3.20	9.387	
300.00	300.00	300.00	300.00	2.01	2.01	89.465	0.28	30.01	30.01	25.99	4.02	7.467	
400.00	400.00	400.00	400.00	2.35	2.35	89.465	0.28	30.01	30.01	25.31	4.71	6.378	
500.00	500.00	500.00	500.00	2.65	2.65	89.465	0.28	30.01	30.01	24.70	5.31	5.654	
600.00	600.00	600.00	600.00	2.93	2.93	89.465	0.28	30.01	30.01	24.16	5.85	5.127	
700.00	700.00	700.00	700.00	3.18	3.18	89.465	0.28	30.01	30.01	23.65	6.36	4.721	
800.00	800.00	800.00	800.00	3.41	3.41	89.465	0.28	30.01	30.01	23.18	6.83	4.396	
900.00	900.00	900.00	900.00	3.64	3.64	89.465	0.28	30.01	30.01	22.74	7.27	4.128	
1,000.00	1,000.00	1,000.00	1,000.00	3.85	3.85	89.465	0.28	30.01	30.01	22.32	7.69	3.902	
1,100.00	1,100.00	1,100.00	1,100.00	4.05	4.05	89.465	0.28	30.01	30.01	21.92	8.09	3.708	
1,200.00	1,200.00	1,200.00	1,200.00	4.24	4.24	89.465	0.28	30.01	30.01	21.53	8.48	3.538	
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	89.465	0.28	30.01	30.01	21.16	8.85	3.389	
1,400.00	1,400.00	1,400.00	1,400.00	4.61	4.61	89.465	0.28	30.01	30.01	20.80	9.21	3.257	
1,500.00	1,500.00	1,500.00	1,500.00	4.78	4.78	89.465	0.28	30.01	30.01	20.45	9.56	3.138 CC, ES	
1,600.00	1,599.98	1,600.52	1,600.50	5.03	4.99	-159.302	-1.24	29.12	30.78	20.82	9.96	3.091	
1,629.90	1,629.86	1,630.57	1,630.53	5.06	5.03	-158.138	-2.29	28.51	31.32	21.32	10.00	3.132	
1,700.00	1,699.88	1,700.67	1,700.54	5.14	5.10	-154.982	-5.21	26.82	32.75	22.64	10.11	3.238	
1,800.00	1,799.78	1,800.62	1,800.37	5.31	5.26	-150.922	-9.38	24.39	34.93	24.55	10.38	3.366	
1,900.00	1,899.68	1,900.56	1,900.21	5.50	5.44	-147.355	-13.55	21.96	37.27	26.59	10.67	3.492	
2,000.00	1,999.58	2,000.51	2,000.04	5.70	5.64	-144.218	-17.73	19.53	39.73	28.76	10.97	3.622	
2,100.00	2,099.47	2,100.46	2,099.87	5.91	5.85	-141.455	-21.90	17.11	42.30	31.03	11.26	3.755	
2,200.00	2,199.37	2,200.41	2,199.70	6.14	6.07	-139.013	-26.07	14.68	44.95	33.39	11.56	3.888	
2,300.00	2,299.27	2,300.35	2,299.53	6.37	6.30	-136.847	-30.24	12.25	47.68	35.82	11.86	4.021	
2,400.00	2,399.16	2,400.30	2,399.36	6.61	6.54	-134.918	-34.42	9.82	50.47	38.31	12.15	4.153	
2,500.00	2,499.06	2,500.25	2,499.19	6.86	6.79	-133.192	-38.59	7.40	53.31	40.86	12.45	4.283	
2,600.00	2,598.96	2,600.20	2,599.02	7.12	7.04	-131.642	-42.76	4.97	56.19	43.45	12.74	4.411	
2,700.00	2,698.86	2,700.14	2,698.85	7.38	7.31	-130.244	-46.93	2.54	59.11	46.08	13.03	4.536	
2,800.00	2,798.75	2,800.09	2,798.68	7.65	7.58	-128.978	-51.11	0.11	62.06	48.74	13.32	4.658	
2,900.00	2,898.65	2,900.04	2,898.51	7.92	7.85	-127.828	-55.28	-2.31	65.04	51.42	13.61	4.777	
3,000.00	2,998.55	2,999.99	2,998.34	8.20	8.13	-126.779	-59.45	-4.74	68.04	54.14	13.90	4.893	
3,100.00	3,098.44	3,099.93	3,098.18	8.48	8.41	-125.819	-63.62	-7.17	71.06	56.87	14.20	5.006	
3,200.00	3,198.34	3,199.88	3,198.01	8.77	8.70	-124.937	-67.79	-9.60	74.11	59.62	14.49	5.116	
3,300.00	3,298.24	3,299.83	3,297.84	9.05	8.99	-124.125	-71.97	-12.02	77.16	62.39	14.78	5.222	
3,400.00	3,398.14	3,399.78	3,397.67	9.35	9.28	-123.375	-76.14	-14.45	80.24	65.17	15.07	5.325	
3,500.00	3,498.03	3,499.72	3,497.50	9.64	9.58	-122.681	-80.31	-16.88	83.32	67.96	15.36	5.425	
3,600.00	3,597.93	3,599.67	3,597.33	9.94	9.88	-122.036	-84.48	-19.31	86.42	70.77	15.65	5.522	
3,700.00	3,697.83	3,699.62	3,697.16	10.23	10.18	-121.436	-88.66	-21.73	89.53	73.58	15.94	5.615	
3,800.00	3,797.72	3,799.57	3,796.99	10.53	10.48	-120.876	-92.83	-24.16	92.64	76.41	16.23	5.706	
3,900.00	3,897.62	3,899.51	3,896.82	10.84	10.79	-120.353	-97.00	-26.59	95.77	79.24	16.53	5.794	
4,000.00	3,997.52	3,999.46	3,996.65	11.14	11.10	-119.863	-101.17	-29.02	98.90	82.08	16.82	5.880	
4,100.00	4,097.42	4,099.41	4,096.48	11.45	11.41	-119.403	-105.35	-31.44	102.04	84.92	17.11	5.962	
4,200.00	4,197.31	4,199.36	4,196.31	11.75	11.72	-118.970	-109.52	-33.87	105.18	87.77	17.41	6.042	
4,300.00	4,297.21	4,299.30	4,296.15	12.06	12.03	-118.563	-113.69	-36.30	108.33	90.63	17.70	6.120	
4,400.00	4,397.11	4,399.25	4,395.98	12.37	12.34	-118.178	-117.86	-38.73	111.49	93.49	18.00	6.195	
4,500.00	4,497.01	4,499.20	4,495.81	12.68	12.66	-117.815	-122.04	-41.15	114.65	96.35	18.29	6.268	
4,600.00	4,596.90	4,599.15	4,595.64	13.00	12.97	-117.471	-126.21	-43.58	117.81	99.22	18.59	6.338	
4,700.00	4,696.80	4,699.09	4,695.47	13.31	13.29	-117.145	-130.38	-46.01	120.98	102.10	18.88	6.407	
4,800.00	4,796.70	4,799.04	4,795.30	13.62	13.61	-116.836	-134.55	-48.44	124.15	104.97	19.18	6.473	
4,900.00	4,896.59	4,898.99	4,895.13	13.94	13.93	-116.543	-138.73	-50.86	127.33	107.85	19.48	6.538	
5,000.00	4,996.49	4,998.94	4,994.96	14.25	14.25	-116.263	-142.90	-53.29	130.51	110.73	19.77	6.600	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 512H - OH - Plan 1 08-31-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
5,100.00	5,096.39	5,098.88	5,094.79	14.57	14.57	-115.997	-147.07	-55.72	133.69	113.62	20.07	6.661	
5,200.00	5,196.29	5,198.83	5,194.62	14.89	14.89	-115.743	-151.24	-58.15	136.87	116.50	20.37	6.720	
5,300.00	5,296.18	5,298.78	5,294.45	15.20	15.21	-115.501	-155.42	-60.57	140.06	119.39	20.67	6.777	
5,400.00	5,396.08	5,398.73	5,394.29	15.52	15.53	-115.270	-159.59	-63.00	143.25	122.28	20.96	6.833	
5,500.00	5,495.98	5,498.67	5,494.12	15.84	15.86	-115.048	-163.76	-65.43	146.44	125.18	21.26	6.887	
5,600.00	5,595.87	5,598.62	5,593.95	16.16	16.18	-114.836	-167.93	-67.86	149.63	128.07	21.56	6.940	
5,700.00	5,695.77	5,698.57	5,693.78	16.48	16.50	-114.633	-172.11	-70.28	152.83	130.97	21.86	6.991	
5,800.00	5,795.67	5,798.52	5,793.61	16.80	16.83	-114.439	-176.28	-72.71	156.03	133.87	22.16	7.041	
5,900.00	5,895.57	5,898.46	5,893.44	17.12	17.16	-114.252	-180.45	-75.14	159.23	136.77	22.46	7.089	
6,000.00	5,995.46	5,998.41	5,993.27	17.44	17.48	-114.072	-184.62	-77.57	162.43	139.67	22.76	7.136	
6,100.00	6,095.36	6,098.36	6,093.10	17.76	17.81	-113.900	-188.80	-79.99	165.63	142.57	23.06	7.182	
6,200.00	6,195.26	6,198.31	6,192.93	18.09	18.13	-113.734	-192.97	-82.42	168.83	145.47	23.36	7.227	
6,300.00	6,295.16	6,298.25	6,292.76	18.41	18.46	-113.574	-197.14	-84.85	172.04	148.37	23.66	7.270	
6,400.00	6,395.05	6,398.20	6,392.59	18.73	18.79	-113.420	-201.31	-87.27	175.25	151.28	23.97	7.312	
6,500.00	6,494.95	6,498.15	6,492.42	19.06	19.12	-113.271	-205.49	-89.70	178.45	154.19	24.27	7.354	
6,600.00	6,594.85	6,598.10	6,592.26	19.38	19.44	-113.128	-209.66	-92.13	181.66	157.09	24.57	7.394	
6,700.00	6,694.74	6,698.04	6,692.09	19.70	19.77	-112.990	-213.83	-94.56	184.87	160.00	24.87	7.433	
6,800.00	6,794.64	6,797.99	6,791.92	20.03	20.10	-112.856	-218.00	-96.98	188.08	162.91	25.17	7.472	
6,900.00	6,894.54	6,897.94	6,891.75	20.35	20.43	-112.727	-222.17	-99.41	191.30	165.82	25.48	7.509	
7,000.00	6,994.44	6,997.89	6,991.58	20.68	20.76	-112.603	-226.35	-101.84	194.51	168.73	25.78	7.546	
7,100.00	7,094.33	7,097.83	7,091.41	21.00	21.09	-112.482	-230.52	-104.27	197.72	171.64	26.08	7.581	
7,200.00	7,194.23	7,197.78	7,191.24	21.33	21.42	-112.365	-234.69	-106.69	200.94	174.55	26.38	7.616	
7,300.00	7,294.13	7,297.73	7,291.07	21.65	21.75	-112.252	-238.86	-109.12	204.15	177.47	26.69	7.650	
7,400.00	7,394.02	7,397.68	7,390.90	21.98	22.08	-112.142	-243.04	-111.55	207.37	180.38	26.99	7.683	
7,500.00	7,493.92	7,497.62	7,490.73	22.30	22.41	-112.036	-247.21	-113.98	210.59	183.29	27.29	7.716	
7,600.00	7,593.82	7,597.57	7,590.56	22.63	22.74	-111.933	-251.38	-116.40	213.80	186.21	27.60	7.747	
7,700.00	7,693.72	7,697.52	7,690.39	22.95	23.07	-111.833	-255.55	-118.83	217.02	189.12	27.90	7.778	
7,800.00	7,793.61	7,797.47	7,790.23	23.28	23.40	-111.735	-259.73	-121.26	220.24	192.04	28.21	7.809	
7,900.00	7,893.51	7,897.41	7,890.06	23.61	23.73	-111.641	-263.90	-123.69	223.46	194.95	28.51	7.838	
8,000.00	7,993.41	7,997.36	7,989.89	23.93	24.06	-111.549	-268.07	-126.11	226.68	197.87	28.81	7.867	
8,100.00	8,093.31	8,097.31	8,089.72	24.26	24.40	-111.460	-272.24	-128.54	229.90	200.78	29.12	7.896	
8,200.00	8,193.20	8,197.26	8,189.55	24.59	24.73	-111.374	-276.42	-130.97	233.12	203.70	29.42	7.923	
8,300.00	8,293.10	8,297.20	8,289.38	24.92	25.06	-111.289	-280.59	-133.40	236.34	206.62	29.73	7.950	
8,400.00	8,393.00	8,397.15	8,389.21	25.24	25.39	-111.207	-284.76	-135.82	239.57	209.53	30.03	7.977	
8,500.00	8,492.89	8,497.10	8,489.04	25.57	25.72	-111.128	-288.93	-138.25	242.79	212.45	30.34	8.003	
8,600.00	8,592.79	8,597.05	8,588.87	25.90	26.06	-111.050	-293.11	-140.68	246.01	215.37	30.64	8.029	
8,700.00	8,692.69	8,696.99	8,688.70	26.23	26.39	-110.974	-297.28	-143.11	249.24	218.29	30.95	8.054	
8,800.00	8,792.59	8,796.94	8,788.53	26.55	26.72	-110.900	-301.45	-145.53	252.46	221.21	31.25	8.078	
8,900.00	8,892.48	8,896.89	8,888.36	26.88	27.05	-110.828	-305.62	-147.96	255.69	224.13	31.56	8.102	
9,000.00	8,992.38	8,996.84	8,988.20	27.21	27.39	-110.758	-309.80	-150.39	258.91	227.05	31.86	8.126	
9,100.00	9,092.28	9,096.78	9,088.03	27.54	27.72	-110.690	-313.97	-152.82	262.14	229.97	32.17	8.149	
9,200.00	9,192.17	9,196.73	9,187.86	27.87	28.05	-110.623	-318.14	-155.24	265.36	232.89	32.47	8.171	
9,300.00	9,292.07	9,296.68	9,287.69	28.19	28.39	-110.558	-322.31	-157.67	268.59	235.81	32.78	8.194	
9,400.00	9,391.97	9,396.63	9,387.52	28.52	28.72	-110.494	-326.49	-160.10	271.81	238.73	33.09	8.215	
9,500.00	9,491.87	9,496.57	9,487.35	28.85	29.05	-110.432	-330.66	-162.53	275.04	241.65	33.39	8.237	
9,600.00	9,591.76	9,596.52	9,587.18	29.18	29.39	-110.372	-334.83	-164.95	278.27	244.57	33.70	8.258	
9,700.00	9,691.66	9,696.47	9,687.01	29.51	29.72	-110.312	-339.00	-167.38	281.50	247.49	34.00	8.278	
9,800.00	9,791.56	9,796.42	9,786.84	29.84	30.05	-110.254	-343.18	-169.81	284.72	250.41	34.31	8.298	
9,900.00	9,891.45	9,896.36	9,886.67	30.17	30.39	-110.198	-347.35	-172.24	287.95	253.33	34.62	8.318	
10,000.00	9,991.35	9,996.31	9,986.50	30.50	30.72	-110.142	-351.52	-174.66	291.18	256.26	34.92	8.338	
10,100.00	10,091.25	10,096.26	10,086.34	30.83	31.05	-110.088	-355.69	-177.09	294.41	259.18	35.23	8.357	
10,200.00	10,191.15	10,196.21	10,186.17	31.15	31.39	-110.035	-359.86	-179.52	297.64	262.10	35.54	8.376	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 512H - OH - Plan 1 08-31-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,300.00	10,291.04	10,296.15	10,286.00	31.48	31.72	-109.983	-364.04	-181.95	300.87	265.02	35.84	8.394	
10,400.00	10,390.94	10,396.10	10,385.83	31.81	32.06	-109.933	-368.21	-184.37	304.09	267.95	36.15	8.412	
10,500.00	10,490.84	10,496.05	10,485.66	32.14	32.39	-109.883	-372.38	-186.80	307.32	270.87	36.46	8.430	
10,600.00	10,590.74	10,596.00	10,585.49	32.47	32.73	-109.834	-376.55	-189.23	310.55	273.79	36.76	8.448	
10,700.00	10,690.63	10,695.94	10,685.32	32.80	33.06	-109.787	-380.73	-191.66	313.78	276.71	37.07	8.465	
10,800.00	10,790.53	10,795.89	10,785.15	33.13	33.39	-109.740	-384.90	-194.08	317.01	279.64	37.38	8.482	
10,900.00	10,890.43	10,895.84	10,884.98	33.46	33.73	-109.694	-389.07	-196.51	320.24	282.56	37.68	8.498	
11,000.00	10,990.32	10,995.79	10,984.81	33.79	34.06	-109.649	-393.24	-198.94	323.47	285.48	37.99	8.515	
11,100.00	11,090.22	11,095.73	11,084.64	34.12	34.40	-109.605	-397.42	-201.37	326.71	288.41	38.30	8.531	
11,200.00	11,190.12	11,195.68	11,184.47	34.45	34.73	-109.562	-401.59	-203.79	329.94	291.33	38.60	8.547	
11,300.00	11,290.02	11,295.63	11,284.31	34.78	35.07	-109.520	-405.76	-206.22	333.17	294.26	38.91	8.562	
11,400.00	11,389.91	11,395.58	11,384.14	35.11	35.40	-109.479	-409.93	-208.65	336.40	297.18	39.22	8.578	
11,444.32	11,434.18	11,439.87	11,428.38	35.25	35.55	-109.461	-411.78	-209.72	337.83	298.49	39.34	8.586	
11,500.00	11,489.83	11,495.53	11,483.97	35.42	35.74	-109.383	-414.11	-211.08	339.45	299.95	39.50	8.593	
11,574.22	11,564.04	11,569.69	11,558.04	35.53	35.99	-141.533	-417.20	-212.88	341.06	301.37	39.69	8.594	
11,600.00	11,589.82	11,595.44	11,583.76	35.53	36.07	-141.727	-418.28	-213.50	341.52	301.78	39.73	8.595	
11,700.00	11,689.82	11,695.32	11,683.53	35.54	36.41	-142.476	-422.45	-215.93	343.32	303.37	39.95	8.594	
11,800.00	11,789.82	11,795.20	11,783.30	35.56	36.74	-143.217	-426.62	-218.36	345.18	305.00	40.18	8.590	
11,900.00	11,889.82	11,895.09	11,883.06	35.58	37.08	-143.950	-430.79	-220.78	347.10	306.66	40.44	8.584	
12,000.00	11,989.82	11,999.53	11,987.44	35.60	37.41	-144.493	-433.90	-222.59	348.51	307.84	40.67	8.569	
12,074.22	12,064.04	12,076.14	12,064.04	35.61	37.47	-144.552	-434.25	-222.79	348.67	307.95	40.72	8.563	
12,100.00	12,089.81	12,101.91	12,089.81	35.62	37.47	-34.958	-434.25	-222.79	348.19	307.49	40.70	8.555	
12,150.00	12,139.60	12,151.70	12,139.60	35.69	37.47	-35.589	-434.25	-222.79	344.57	303.87	40.70	8.466	
12,200.00	12,188.82	12,200.91	12,188.82	35.77	37.48	-36.877	-434.25	-222.79	337.48	296.76	40.72	8.287	
12,250.00	12,237.08	12,249.17	12,237.08	35.86	37.48	-38.888	-434.25	-222.79	327.08	286.37	40.71	8.035	
12,300.00	12,284.02	12,296.12	12,284.02	35.96	37.48	-41.725	-434.25	-222.79	313.65	272.97	40.68	7.711	
12,350.00	12,329.30	12,341.39	12,329.30	36.06	37.48	-45.512	-434.25	-222.79	297.60	256.92	40.68	7.316	
12,400.00	12,372.55	12,384.64	12,372.55	36.17	37.49	-50.376	-434.25	-222.79	279.50	238.69	40.81	6.849	
12,450.00	12,413.46	12,425.55	12,413.46	36.28	37.49	-56.395	-434.25	-222.79	260.18	218.91	41.27	6.304	
12,500.00	12,451.70	12,463.80	12,451.70	36.40	37.49	-63.501	-434.25	-222.79	240.77	198.33	42.44	5.673	
12,550.00	12,487.00	12,499.09	12,487.00	36.51	37.50	-71.377	-434.25	-222.79	222.86	177.94	44.93	4.961	
12,600.00	12,519.08	12,531.17	12,519.08	36.63	37.49	-79.423	-434.25	-222.79	208.57	159.22	49.35	4.226	
12,650.00	12,547.69	12,559.35	12,547.25	36.75	37.52	-86.754	-434.38	-222.79	200.41	144.84	55.57	3.606	
12,674.36	12,560.31	12,572.41	12,560.31	36.80	37.56	-90.000	-434.80	-222.79	199.37	140.53	58.84	3.388	
12,700.00	12,572.62	12,586.23	12,574.11	36.86	37.60	-93.248	-435.58	-222.78	200.55	138.42	62.13	3.228	
12,750.00	12,593.68	12,613.43	12,601.18	36.99	37.71	-98.993	-438.08	-222.75	209.69	142.25	67.44	3.109	
12,800.00	12,610.72	12,641.04	12,628.52	37.11	37.85	-103.871	-441.92	-222.72	227.29	156.49	70.81	3.210	
12,850.00	12,623.59	12,669.20	12,656.19	37.23	38.00	-107.864	-447.20	-222.66	252.04	179.60	72.44	3.479	
12,900.00	12,632.20	12,698.14	12,684.31	37.36	38.16	-111.021	-454.03	-222.59	282.42	209.50	72.91	3.873	
12,950.00	12,636.49	12,728.19	12,713.10	37.49	38.33	-113.442	-462.61	-222.51	317.06	244.30	72.76	4.357	
12,974.22	12,637.00	12,743.31	12,727.41	37.55	38.42	-114.392	-467.50	-222.46	335.06	262.49	72.57	4.617	
13,000.00	12,637.00	12,761.05	12,744.03	37.62	38.52	-118.227	-473.72	-222.40	354.76	282.43	72.33	4.905	
13,100.00	12,637.00	12,871.76	12,842.57	37.92	39.15	-135.877	-523.77	-221.89	431.80	360.23	71.57	6.034	
13,200.00	12,637.00	13,141.23	13,028.26	38.28	40.43	-152.997	-715.61	-219.97	496.33	426.09	70.24	7.066	
13,300.00	12,637.00	13,486.86	13,108.00	38.69	41.14	-157.054	-1,046.90	-216.64	511.47	445.48	65.99	7.751	
13,400.00	12,637.00	13,586.86	13,108.00	39.15	41.24	-157.053	-1,146.89	-215.64	511.47	444.60	66.87	7.649	
13,500.00	12,637.00	13,686.86	13,108.00	39.66	41.35	-157.052	-1,246.89	-214.63	511.48	443.69	67.79	7.546	
13,600.00	12,637.00	13,786.86	13,108.00	40.23	41.49	-157.052	-1,346.88	-213.63	511.48	442.74	68.74	7.441	
13,700.00	12,637.00	13,886.86	13,108.00	40.84	41.65	-157.051	-1,446.88	-212.62	511.48	441.76	69.72	7.336	
13,800.00	12,637.00	13,986.86	13,108.00	41.49	41.84	-157.051	-1,546.87	-211.62	511.48	440.74	70.74	7.230	
13,900.00	12,637.00	14,086.86	13,108.00	42.20	42.07	-157.050	-1,646.87	-210.61	511.49	439.69	71.80	7.124	
14,000.00	12,637.00	14,186.86	13,108.00	42.94	42.33	-157.049	-1,746.86	-209.61	511.49	438.61	72.88	7.018	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 512H - OH - Plan 1 08-31-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,100.00	12,637.00	14,286.86	13,108.00	43.73	42.64	-157.049	-1,846.86	-208.61	511.49	437.50	73.99	6.913	
14,200.00	12,637.00	14,386.86	13,108.00	44.55	43.00	-157.048	-1,946.85	-207.60	511.49	436.36	75.13	6.808	
14,300.00	12,637.00	14,486.86	13,108.00	45.41	43.42	-157.047	-2,046.85	-206.60	511.50	435.20	76.30	6.704	
14,400.00	12,637.00	14,586.86	13,108.00	46.30	43.90	-157.047	-2,146.84	-205.59	511.50	434.01	77.49	6.601	
14,500.00	12,637.00	14,686.86	13,108.00	47.23	44.45	-157.046	-2,246.84	-204.59	511.50	432.79	78.71	6.499	
14,600.00	12,637.00	14,786.86	13,108.00	48.18	45.07	-157.046	-2,346.83	-203.58	511.50	431.55	79.95	6.398	
14,700.00	12,637.00	14,886.86	13,108.00	49.16	45.77	-157.045	-2,446.83	-202.58	511.51	430.29	81.21	6.298	
14,800.00	12,637.00	14,986.86	13,108.00	50.17	46.54	-157.044	-2,546.82	-201.58	511.51	429.01	82.50	6.200	
14,900.00	12,637.00	15,086.86	13,108.00	51.19	47.37	-157.044	-2,646.82	-200.57	511.51	427.71	83.80	6.104	
15,000.00	12,637.00	15,186.86	13,108.00	52.25	48.27	-157.043	-2,746.81	-199.57	511.51	426.39	85.12	6.009	
15,100.00	12,637.00	15,286.86	13,108.00	53.32	49.23	-157.042	-2,846.81	-198.56	511.51	425.05	86.47	5.916	
15,200.00	12,637.00	15,386.86	13,108.00	54.41	50.24	-157.042	-2,946.80	-197.56	511.52	423.69	87.83	5.824	
15,300.00	12,637.00	15,486.86	13,108.00	55.51	51.30	-157.041	-3,046.80	-196.55	511.52	422.32	89.20	5.734	
15,400.00	12,637.00	15,586.86	13,108.00	56.64	52.39	-157.041	-3,146.79	-195.55	511.52	420.93	90.60	5.646	
15,500.00	12,637.00	15,686.86	13,108.00	57.78	53.52	-157.040	-3,246.79	-194.55	511.52	419.52	92.00	5.560	
15,600.00	12,637.00	15,786.86	13,108.00	58.93	54.68	-157.039	-3,346.78	-193.54	511.53	418.10	93.43	5.475	
15,700.00	12,637.00	15,886.86	13,108.00	60.10	55.87	-157.039	-3,446.78	-192.54	511.53	416.67	94.86	5.392	
15,800.00	12,637.00	15,986.86	13,108.00	61.28	57.08	-157.038	-3,546.77	-191.53	511.53	415.22	96.31	5.311	
15,900.00	12,637.00	16,086.86	13,108.00	62.47	58.30	-157.037	-3,646.77	-190.53	511.53	413.76	97.78	5.232	
16,000.00	12,637.00	16,186.86	13,108.00	63.67	59.55	-157.037	-3,746.76	-189.52	511.54	412.29	99.25	5.154	
16,100.00	12,637.00	16,286.86	13,108.00	64.88	60.81	-157.036	-3,846.76	-188.52	511.54	410.80	100.74	5.078	
16,200.00	12,637.00	16,386.86	13,108.00	66.11	62.08	-157.036	-3,946.75	-187.52	511.54	409.31	102.23	5.004	
16,300.00	12,637.00	16,486.86	13,108.00	67.34	63.36	-157.035	-4,046.75	-186.51	511.54	407.80	103.74	4.931	
16,400.00	12,637.00	16,586.86	13,108.00	68.58	64.66	-157.034	-4,146.74	-185.51	511.55	406.28	105.26	4.860	
16,500.00	12,637.00	16,686.86	13,108.00	69.82	65.96	-157.034	-4,246.74	-184.50	511.55	404.76	106.79	4.790	
16,600.00	12,637.00	16,786.86	13,108.00	71.08	67.28	-157.033	-4,346.73	-183.50	511.55	403.22	108.33	4.722	
16,700.00	12,637.00	16,886.86	13,108.00	72.34	68.59	-157.032	-4,446.73	-182.49	511.55	401.68	109.87	4.656	
16,800.00	12,637.00	16,986.86	13,108.00	73.61	69.92	-157.032	-4,546.72	-181.49	511.56	400.13	111.43	4.591	
16,900.00	12,637.00	17,086.86	13,108.00	74.88	71.25	-157.031	-4,646.72	-180.49	511.56	398.57	112.99	4.527	
17,000.00	12,637.00	17,186.86	13,108.00	76.16	72.59	-157.031	-4,746.71	-179.48	511.56	397.00	114.56	4.465	
17,100.00	12,637.00	17,286.86	13,108.00	77.45	73.94	-157.030	-4,846.71	-178.48	511.56	395.42	116.14	4.405	
17,200.00	12,637.00	17,386.86	13,108.00	78.74	75.28	-157.029	-4,946.70	-177.47	511.56	393.84	117.73	4.345	
17,300.00	12,637.00	17,486.86	13,108.00	80.04	76.64	-157.029	-5,046.70	-176.47	511.57	392.24	119.32	4.287	
17,400.00	12,637.00	17,586.86	13,108.00	81.34	77.99	-157.028	-5,146.69	-175.46	511.57	390.65	120.92	4.231	
17,500.00	12,637.00	17,686.86	13,108.00	82.65	79.35	-157.027	-5,246.69	-174.46	511.57	389.04	122.53	4.175	
17,600.00	12,637.00	17,786.86	13,108.00	83.96	80.72	-157.027	-5,346.68	-173.46	511.57	387.43	124.14	4.121	
17,700.00	12,637.00	17,886.86	13,108.00	85.27	82.08	-157.026	-5,446.68	-172.45	511.58	385.82	125.76	4.068	
17,800.00	12,637.00	17,986.86	13,108.00	86.59	83.45	-157.026	-5,546.67	-171.45	511.58	384.20	127.38	4.016	
17,900.00	12,637.00	18,086.86	13,108.00	87.91	84.82	-157.025	-5,646.67	-170.44	511.58	382.57	129.01	3.965	
18,000.00	12,637.00	18,186.86	13,108.00	89.24	86.20	-157.024	-5,746.66	-169.44	511.58	380.93	130.65	3.916	
18,100.00	12,637.00	18,286.86	13,108.00	90.57	87.58	-157.024	-5,846.66	-168.43	511.59	379.30	132.29	3.867	
18,200.00	12,637.00	18,386.86	13,108.00	91.90	88.96	-157.023	-5,946.65	-167.43	511.59	377.65	133.93	3.820	
18,300.00	12,637.00	18,486.86	13,108.00	93.24	90.34	-157.022	-6,046.65	-166.43	511.59	376.01	135.58	3.773	
18,400.00	12,637.00	18,586.86	13,108.00	94.58	91.72	-157.022	-6,146.64	-165.42	511.59	374.35	137.24	3.728	
18,500.00	12,637.00	18,686.86	13,108.00	95.92	93.11	-157.021	-6,246.64	-164.42	511.60	372.70	138.90	3.683	
18,600.00	12,637.00	18,786.86	13,108.00	97.26	94.49	-157.021	-6,346.63	-163.41	511.60	371.04	140.56	3.640	
18,700.00	12,637.00	18,886.86	13,108.00	98.61	95.88	-157.020	-6,446.63	-162.41	511.60	369.37	142.23	3.597	
18,800.00	12,637.00	18,986.86	13,108.00	99.96	97.27	-157.019	-6,546.62	-161.41	511.60	367.70	143.90	3.555	
18,900.00	12,637.00	19,086.86	13,108.00	101.31	98.66	-157.019	-6,646.62	-160.40	511.60	366.03	145.57	3.514	
19,000.00	12,637.00	19,186.86	13,108.00	102.67	100.06	-157.018	-6,746.61	-159.40	511.61	364.35	147.25	3.474	
19,100.00	12,637.00	19,286.86	13,108.00	104.02	101.45	-157.017	-6,846.61	-158.39	511.61	362.67	148.94	3.435	
19,200.00	12,637.00	19,386.86	13,108.00	105.38	102.85	-157.017	-6,946.60	-157.39	511.61	360.99	150.62	3.397	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 512H - OH - Plan 1 08-31-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
19,300.00	12,637.00	19,486.86	13,108.00	106.74	104.25	-157.016	-7,046.59	-156.38	511.61	359.30	152.31	3.359	
19,400.00	12,637.00	19,586.86	13,108.00	108.11	105.64	-157.016	-7,146.59	-155.38	511.62	357.61	154.00	3.322	
19,500.00	12,637.00	19,686.86	13,108.00	109.47	107.04	-157.015	-7,246.58	-154.38	511.62	355.92	155.70	3.286	
19,600.00	12,637.00	19,786.86	13,108.00	110.84	108.44	-157.014	-7,346.58	-153.37	511.62	354.22	157.40	3.251	
19,700.00	12,637.00	19,886.86	13,108.00	112.20	109.85	-157.014	-7,446.57	-152.37	511.62	352.53	159.10	3.216	
19,800.00	12,637.00	19,986.86	13,108.00	113.57	111.25	-157.013	-7,546.57	-151.36	511.63	350.82	160.80	3.182	
19,900.00	12,637.00	20,086.86	13,108.00	114.95	112.65	-157.012	-7,646.56	-150.36	511.63	349.12	162.51	3.148	
20,000.00	12,637.00	20,186.86	13,108.00	116.32	114.06	-157.012	-7,746.56	-149.35	511.63	347.41	164.22	3.116	
20,100.00	12,637.00	20,286.86	13,108.00	117.69	115.46	-157.011	-7,846.55	-148.35	511.63	345.70	165.93	3.083	
20,200.00	12,637.00	20,386.86	13,108.00	119.07	116.87	-157.011	-7,946.55	-147.35	511.64	343.99	167.65	3.052	
20,300.00	12,637.00	20,486.86	13,108.00	120.45	118.27	-157.010	-8,046.54	-146.34	511.64	342.27	169.36	3.021	
20,400.00	12,637.00	20,586.86	13,108.00	121.83	119.68	-157.009	-8,146.54	-145.34	511.64	340.56	171.08	2.991	
20,500.00	12,637.00	20,686.86	13,108.00	123.21	121.09	-157.009	-8,246.53	-144.33	511.64	338.84	172.81	2.961	
20,600.00	12,637.00	20,786.86	13,108.00	124.59	122.50	-157.008	-8,346.53	-143.33	511.65	337.12	174.53	2.932	
20,700.00	12,637.00	20,886.86	13,108.00	125.97	123.91	-157.007	-8,446.52	-142.32	511.65	335.39	176.26	2.903	
20,800.00	12,637.00	20,986.86	13,108.00	127.35	125.32	-157.007	-8,546.52	-141.32	511.65	333.67	177.98	2.875	
20,900.00	12,637.00	21,086.86	13,108.00	128.74	126.73	-157.006	-8,646.51	-140.32	511.65	331.94	179.71	2.847	
21,000.00	12,637.00	21,186.86	13,108.00	130.12	128.14	-157.006	-8,746.51	-139.31	511.65	330.21	181.45	2.820	
21,100.00	12,637.00	21,286.86	13,108.00	131.51	129.55	-157.005	-8,846.50	-138.31	511.66	328.48	183.18	2.793	
21,200.00	12,637.00	21,386.86	13,108.00	132.90	130.97	-157.004	-8,946.50	-137.30	511.66	326.74	184.92	2.767	
21,300.00	12,637.00	21,486.86	13,108.00	134.29	132.38	-157.004	-9,046.49	-136.30	511.66	325.01	186.65	2.741	
21,400.00	12,637.00	21,586.86	13,108.00	135.68	133.79	-157.003	-9,146.49	-135.29	511.66	323.27	188.39	2.716	
21,500.00	12,637.00	21,686.86	13,108.00	137.07	135.21	-157.002	-9,246.48	-134.29	511.67	321.53	190.14	2.691	
21,600.00	12,637.00	21,786.86	13,108.00	138.46	136.62	-157.002	-9,346.48	-133.29	511.67	319.79	191.88	2.667	
21,700.00	12,637.00	21,886.86	13,108.00	139.85	138.04	-157.001	-9,446.47	-132.28	511.67	318.05	193.62	2.643	
21,800.00	12,637.00	21,986.86	13,108.00	141.25	139.45	-157.001	-9,546.47	-131.28	511.67	316.30	195.37	2.619	
21,900.00	12,637.00	22,086.86	13,108.00	142.64	140.87	-157.000	-9,646.46	-130.27	511.68	314.56	197.12	2.596	
22,000.00	12,637.00	22,186.86	13,108.00	144.04	142.29	-156.999	-9,746.46	-129.27	511.68	312.81	198.87	2.573	
22,100.00	12,637.00	22,286.86	13,108.00	145.43	143.70	-156.999	-9,846.45	-128.26	511.68	311.06	200.62	2.551	
22,200.00	12,637.00	22,386.86	13,108.00	146.83	145.12	-156.998	-9,946.45	-127.26	511.68	309.31	202.37	2.528	
22,300.00	12,637.00	22,486.86	13,108.00	148.23	146.54	-156.997	-10,046.44	-126.26	511.69	307.56	204.12	2.507	
22,400.00	12,637.00	22,586.86	13,108.00	149.63	147.96	-156.997	-10,146.44	-125.25	511.69	305.81	205.88	2.485	
22,500.00	12,637.00	22,686.86	13,108.00	151.02	149.37	-156.996	-10,246.43	-124.25	511.69	304.05	207.64	2.464	
22,600.00	12,637.00	22,786.86	13,108.00	152.42	150.79	-156.996	-10,346.43	-123.24	511.69	302.30	209.39	2.444	
22,700.00	12,637.00	22,886.86	13,108.00	153.83	152.21	-156.995	-10,446.42	-122.24	511.69	300.54	211.15	2.423	
22,800.00	12,637.00	22,986.86	13,108.00	155.23	153.63	-156.994	-10,546.42	-121.23	511.70	298.78	212.91	2.403	
22,900.00	12,637.00	23,086.86	13,108.00	156.63	155.05	-156.994	-10,646.41	-120.23	511.70	297.03	214.67	2.384	
23,000.00	12,637.00	23,186.86	13,108.00	158.03	156.47	-156.993	-10,746.41	-119.23	511.70	295.27	216.44	2.364	
23,000.09	12,637.00	23,186.95	13,108.00	158.03	156.47	-156.993	-10,746.50	-119.22	511.70	295.26	216.44	2.364	
23,100.00	12,637.00	23,247.14	13,108.00	159.43	157.33	-156.993	-10,806.68	-118.62	513.24	294.60	218.64	2.347 SF	
23,124.22	12,637.00	23,247.14	13,108.00	159.77	157.33	-156.993	-10,806.68	-118.62	515.68	296.91	218.77	2.357	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 513H - OH - Plan 1 08-31-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
0.00	0.00	0.00	0.00	1.00	1.00	89.530	10.33	1,260.20	1,260.24				
100.00	100.00	100.00	100.00	1.08	1.08	89.530	10.33	1,260.20	1,260.24	1,258.07	2.17	581.213	
200.00	200.00	200.00	200.00	1.60	1.60	89.530	10.33	1,260.20	1,260.24	1,257.05	3.20	394.168	
300.00	300.00	300.00	300.00	2.01	2.01	89.530	10.33	1,260.20	1,260.24	1,256.22	4.02	313.556	
400.00	400.00	400.00	400.00	2.35	2.35	89.530	10.33	1,260.20	1,260.24	1,255.54	4.71	267.841	
500.00	500.00	500.00	500.00	2.65	2.65	89.530	10.33	1,260.20	1,260.24	1,254.93	5.31	237.414	
600.00	600.00	600.00	600.00	2.93	2.93	89.530	10.33	1,260.20	1,260.24	1,254.39	5.85	215.282	
700.00	700.00	700.00	700.00	3.18	3.18	89.530	10.33	1,260.20	1,260.24	1,253.89	6.36	198.241	
800.00	800.00	800.00	800.00	3.41	3.41	89.530	10.33	1,260.20	1,260.24	1,253.42	6.83	184.591	
900.00	900.00	900.00	900.00	3.64	3.64	89.530	10.33	1,260.20	1,260.24	1,252.97	7.27	173.333	
1,000.00	1,000.00	1,000.00	1,000.00	3.85	3.85	89.530	10.33	1,260.20	1,260.24	1,252.55	7.69	163.839	
1,100.00	1,100.00	1,100.00	1,100.00	4.05	4.05	89.530	10.33	1,260.20	1,260.24	1,252.15	8.09	155.688	
1,200.00	1,200.00	1,200.00	1,200.00	4.24	4.24	89.530	10.33	1,260.20	1,260.24	1,251.76	8.48	148.588	
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	89.530	10.33	1,260.20	1,260.24	1,251.39	8.85	142.331	
1,400.00	1,400.00	1,400.00	1,400.00	4.61	4.61	89.530	10.33	1,260.20	1,260.24	1,251.03	9.21	136.760	
1,500.00	1,500.00	1,500.00	1,500.00	4.78	4.78	89.530	10.33	1,260.20	1,260.24	1,250.68	9.56	131.757 CC, ES	
1,600.00	1,599.98	1,593.16	1,593.14	5.03	4.96	-160.949	8.84	1,260.46	1,262.16	1,252.24	9.92	127.212	
1,629.90	1,629.86	1,621.00	1,620.96	5.06	4.99	-160.910	7.81	1,260.64	1,263.48	1,253.52	9.96	126.832	
1,700.00	1,699.88	1,690.98	1,690.88	5.14	5.06	-160.826	4.91	1,261.16	1,266.98	1,256.89	10.09	125.525	
1,800.00	1,799.78	1,790.82	1,790.64	5.31	5.22	-160.706	0.77	1,261.89	1,271.97	1,261.60	10.37	122.630	
1,900.00	1,899.68	1,890.66	1,890.39	5.50	5.39	-160.587	-3.37	1,262.62	1,276.97	1,266.29	10.68	119.521	
2,000.00	1,999.58	1,990.50	1,990.14	5.70	5.58	-160.469	-7.51	1,263.35	1,281.98	1,270.97	11.01	116.465	
2,100.00	2,099.47	2,090.34	2,089.89	5.91	5.78	-160.351	-11.65	1,264.08	1,286.99	1,275.65	11.34	113.483	
2,200.00	2,199.37	2,190.18	2,189.64	6.14	6.00	-160.235	-15.79	1,264.81	1,292.01	1,280.32	11.68	110.588	
2,300.00	2,299.27	2,290.02	2,289.39	6.37	6.22	-160.120	-19.94	1,265.54	1,297.03	1,284.99	12.03	107.787	
2,400.00	2,399.16	2,389.86	2,389.14	6.61	6.45	-160.005	-24.08	1,266.28	1,302.05	1,289.66	12.39	105.084	
2,500.00	2,499.06	2,489.70	2,488.90	6.86	6.69	-159.892	-28.22	1,267.01	1,307.09	1,294.33	12.75	102.481	
2,600.00	2,598.96	2,589.54	2,588.65	7.12	6.94	-159.779	-32.36	1,267.74	1,312.12	1,299.00	13.12	99.980	
2,700.00	2,698.86	2,689.38	2,688.40	7.38	7.19	-159.667	-36.50	1,268.47	1,317.16	1,303.67	13.50	97.579	
2,800.00	2,798.75	2,789.22	2,788.15	7.65	7.45	-159.556	-40.64	1,269.20	1,322.21	1,308.33	13.88	95.276	
2,900.00	2,898.65	2,889.06	2,887.90	7.92	7.71	-159.446	-44.78	1,269.93	1,327.26	1,313.00	14.26	93.070	
3,000.00	2,998.55	2,988.90	2,987.65	8.20	7.98	-159.337	-48.92	1,270.66	1,332.32	1,317.67	14.65	90.955	
3,100.00	3,098.44	3,088.74	3,087.40	8.48	8.25	-159.228	-53.07	1,271.39	1,337.38	1,322.34	15.04	88.931	
3,200.00	3,198.34	3,188.58	3,187.15	8.77	8.53	-159.121	-57.21	1,272.13	1,342.45	1,327.01	15.43	86.991	
3,300.00	3,298.24	3,288.42	3,286.91	9.05	8.81	-159.014	-61.35	1,272.86	1,347.52	1,331.69	15.83	85.134	
3,400.00	3,398.14	3,388.26	3,386.66	9.35	9.09	-158.908	-65.49	1,273.59	1,352.59	1,336.36	16.23	83.354	
3,500.00	3,498.03	3,488.10	3,486.41	9.64	9.38	-158.802	-69.63	1,274.32	1,357.67	1,341.04	16.63	81.649	
3,600.00	3,597.93	3,587.94	3,586.16	9.94	9.67	-158.698	-73.77	1,275.05	1,362.76	1,345.73	17.03	80.014	
3,700.00	3,697.83	3,687.78	3,685.91	10.23	9.96	-158.594	-77.91	1,275.78	1,367.85	1,350.41	17.44	78.447	
3,800.00	3,797.72	3,787.62	3,785.66	10.53	10.25	-158.491	-82.05	1,276.51	1,372.94	1,355.10	17.84	76.944	
3,900.00	3,897.62	3,887.46	3,885.41	10.84	10.54	-158.389	-86.20	1,277.24	1,378.04	1,359.78	18.25	75.501	
4,000.00	3,997.52	3,987.30	3,985.16	11.14	10.84	-158.288	-90.34	1,277.98	1,383.14	1,364.48	18.66	74.115	
4,100.00	4,097.42	4,087.14	4,084.92	11.45	11.14	-158.187	-94.48	1,278.71	1,388.25	1,369.17	19.07	72.784	
4,200.00	4,197.31	4,186.98	4,184.67	11.75	11.44	-158.087	-98.62	1,279.44	1,393.36	1,373.87	19.49	71.504	
4,300.00	4,297.21	4,286.82	4,284.42	12.06	11.74	-157.988	-102.76	1,280.17	1,398.47	1,378.57	19.90	70.274	
4,400.00	4,397.11	4,386.66	4,384.17	12.37	12.04	-157.889	-106.90	1,280.90	1,403.59	1,383.27	20.32	69.090	
4,500.00	4,497.01	4,486.50	4,483.92	12.68	12.35	-157.791	-111.04	1,281.63	1,408.71	1,387.98	20.73	67.950	
4,600.00	4,596.90	4,586.34	4,583.67	13.00	12.65	-157.694	-115.18	1,282.36	1,413.84	1,392.69	21.15	66.852	
4,700.00	4,696.80	4,686.18	4,683.42	13.31	12.96	-157.598	-119.33	1,283.09	1,418.97	1,397.40	21.57	65.794	
4,800.00	4,796.70	4,786.02	4,783.18	13.62	13.26	-157.502	-123.47	1,283.82	1,424.11	1,402.12	21.99	64.773	
4,900.00	4,896.59	4,885.86	4,882.93	13.94	13.57	-157.407	-127.61	1,284.56	1,429.25	1,406.84	22.41	63.789	
5,000.00	4,996.49	4,985.70	4,982.68	14.25	13.88	-157.313	-131.75	1,285.29	1,434.39	1,411.56	22.83	62.839	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 513H - OH - Plan 1 08-31-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	5,096.39	5,085.54	5,082.43	14.57	14.19	-157.219	-135.89	1,286.02	1,439.54	1,416.29	23.25	61.922	
5,200.00	5,196.29	5,185.38	5,182.18	14.89	14.50	-157.126	-140.03	1,286.75	1,444.69	1,421.02	23.67	61.035	
5,300.00	5,296.18	5,285.22	5,281.93	15.20	14.81	-157.034	-144.17	1,287.48	1,449.84	1,425.75	24.09	60.178	
5,400.00	5,396.08	5,385.06	5,381.68	15.52	15.12	-156.943	-148.31	1,288.21	1,455.00	1,430.48	24.52	59.349	
5,500.00	5,495.98	5,484.90	5,481.43	15.84	15.43	-156.852	-152.45	1,288.94	1,460.16	1,435.22	24.94	58.547	
5,600.00	5,595.87	5,584.74	5,581.19	16.16	15.75	-156.761	-156.60	1,289.67	1,465.33	1,439.96	25.36	57.771	
5,700.00	5,695.77	5,684.58	5,680.94	16.48	16.06	-156.671	-160.74	1,290.41	1,470.50	1,444.71	25.79	57.019	
5,800.00	5,795.67	5,784.42	5,780.69	16.80	16.37	-156.582	-164.88	1,291.14	1,475.67	1,449.45	26.22	56.291	
5,900.00	5,895.57	5,884.26	5,880.44	17.12	16.69	-156.494	-169.02	1,291.87	1,480.84	1,454.20	26.64	55.585	
6,000.00	5,995.46	5,984.10	5,980.19	17.44	17.00	-156.406	-173.16	1,292.60	1,486.02	1,458.96	27.07	54.900	
6,100.00	6,095.36	6,083.94	6,079.94	17.76	17.32	-156.319	-177.30	1,293.33	1,491.21	1,463.71	27.50	54.236	
6,200.00	6,195.26	6,183.78	6,179.69	18.09	17.63	-156.232	-181.44	1,294.06	1,496.39	1,468.47	27.92	53.591	
6,300.00	6,295.16	6,283.62	6,279.44	18.41	17.95	-156.146	-185.58	1,294.79	1,501.58	1,473.23	28.35	52.965	
6,400.00	6,395.05	6,383.46	6,379.20	18.73	18.27	-156.061	-189.73	1,295.52	1,506.78	1,478.00	28.78	52.357	
6,500.00	6,494.95	6,483.30	6,478.95	19.06	18.58	-155.976	-193.87	1,296.26	1,511.97	1,482.77	29.21	51.766	
6,600.00	6,594.85	6,583.14	6,578.70	19.38	18.90	-155.891	-198.01	1,296.99	1,517.17	1,487.54	29.64	51.191	
6,700.00	6,694.74	6,682.98	6,678.45	19.70	19.22	-155.808	-202.15	1,297.72	1,522.38	1,492.31	30.07	50.633	
6,800.00	6,794.64	6,782.82	6,778.20	20.03	19.53	-155.725	-206.29	1,298.45	1,527.58	1,497.09	30.50	50.090	
6,900.00	6,894.54	6,882.66	6,877.95	20.35	19.85	-155.642	-210.43	1,299.18	1,532.79	1,501.87	30.93	49.561	
7,000.00	6,994.44	6,982.50	6,977.70	20.68	20.17	-155.560	-214.57	1,299.91	1,538.01	1,506.65	31.36	49.046	
7,100.00	7,094.33	7,082.34	7,077.46	21.00	20.49	-155.479	-218.71	1,300.64	1,543.22	1,511.43	31.79	48.545	
7,200.00	7,194.23	7,182.18	7,177.21	21.33	20.81	-155.398	-222.86	1,301.37	1,548.44	1,516.22	32.22	48.057	
7,300.00	7,294.13	7,282.02	7,276.96	21.65	21.13	-155.317	-227.00	1,302.11	1,553.66	1,521.01	32.65	47.582	
7,400.00	7,394.02	7,381.86	7,376.71	21.98	21.44	-155.237	-231.14	1,302.84	1,558.89	1,525.80	33.08	47.118	
7,500.00	7,493.92	7,481.70	7,476.46	22.30	21.76	-155.158	-235.28	1,303.57	1,564.12	1,530.60	33.52	46.666	
7,600.00	7,593.82	7,581.54	7,576.21	22.63	22.08	-155.079	-239.42	1,304.30	1,569.35	1,535.40	33.95	46.225	
7,700.00	7,693.72	7,681.38	7,675.96	22.95	22.40	-155.001	-243.56	1,305.03	1,574.58	1,540.20	34.38	45.795	
7,800.00	7,793.61	7,781.22	7,775.71	23.28	22.72	-154.923	-247.70	1,305.76	1,579.82	1,545.00	34.82	45.376	
7,900.00	7,893.51	7,881.06	7,875.47	23.61	23.04	-154.846	-251.84	1,306.49	1,585.06	1,549.81	35.25	44.966	
8,000.00	7,993.41	7,980.90	7,975.22	23.93	23.36	-154.770	-255.98	1,307.22	1,590.30	1,554.62	35.68	44.566	
8,100.00	8,093.31	8,080.74	8,074.97	24.26	23.68	-154.693	-260.13	1,307.96	1,595.55	1,559.43	36.12	44.176	
8,200.00	8,193.20	8,180.58	8,174.72	24.59	24.00	-154.618	-264.27	1,308.69	1,600.80	1,564.24	36.55	43.794	
8,300.00	8,293.10	8,280.42	8,274.47	24.92	24.33	-154.542	-268.41	1,309.42	1,606.05	1,569.06	36.99	43.421	
8,400.00	8,393.00	8,380.26	8,374.22	25.24	24.65	-154.468	-272.55	1,310.15	1,611.30	1,573.88	37.42	43.057	
8,500.00	8,492.89	8,480.10	8,473.97	25.57	24.97	-154.393	-276.69	1,310.88	1,616.56	1,578.70	37.86	42.701	
8,600.00	8,592.79	8,579.94	8,573.72	25.90	25.29	-154.320	-280.83	1,311.61	1,621.82	1,583.52	38.29	42.352	
8,700.00	8,692.69	8,679.78	8,673.48	26.23	25.61	-154.246	-284.97	1,312.34	1,627.08	1,588.35	38.73	42.012	
8,800.00	8,792.59	8,779.62	8,773.23	26.55	25.93	-154.174	-289.11	1,313.07	1,632.34	1,593.18	39.17	41.678	
8,900.00	8,892.48	8,879.46	8,872.98	26.88	26.25	-154.101	-293.26	1,313.81	1,637.61	1,598.01	39.60	41.352	
9,000.00	8,992.38	8,979.30	8,972.73	27.21	26.57	-154.029	-297.40	1,314.54	1,642.88	1,602.84	40.04	41.033	
9,100.00	9,092.28	9,079.14	9,072.48	27.54	26.90	-153.958	-301.54	1,315.27	1,648.15	1,607.68	40.47	40.720	
9,200.00	9,192.17	9,178.98	9,172.23	27.87	27.22	-153.887	-305.68	1,316.00	1,653.43	1,612.51	40.91	40.414	
9,300.00	9,292.07	9,278.82	9,271.98	28.19	27.54	-153.817	-309.82	1,316.73	1,658.70	1,617.35	41.35	40.115	
9,400.00	9,391.97	9,378.66	9,371.74	28.52	27.86	-153.746	-313.96	1,317.46	1,663.98	1,622.20	41.79	39.821	
9,500.00	9,491.87	9,478.50	9,471.49	28.85	28.18	-153.677	-318.10	1,318.19	1,669.27	1,627.04	42.22	39.533	
9,600.00	9,591.76	9,578.34	9,571.24	29.18	28.51	-153.608	-322.24	1,318.92	1,674.55	1,631.89	42.66	39.251	
9,700.00	9,691.66	9,678.18	9,670.99	29.51	28.83	-153.539	-326.39	1,319.66	1,679.84	1,636.74	43.10	38.975	
9,800.00	9,791.56	9,778.02	9,770.74	29.84	29.15	-153.471	-330.53	1,320.39	1,685.13	1,641.59	43.54	38.704	
9,900.00	9,891.45	9,877.86	9,870.49	30.17	29.47	-153.403	-334.67	1,321.12	1,690.42	1,646.44	43.98	38.438	
10,000.00	9,991.35	9,977.70	9,970.24	30.50	29.80	-153.335	-338.81	1,321.85	1,695.71	1,651.30	44.42	38.178	
10,100.00	10,091.25	10,077.54	10,069.99	30.83	30.12	-153.268	-342.95	1,322.58	1,701.01	1,656.16	44.86	37.922	
10,200.00	10,191.15	10,177.38	10,169.75	31.15	30.44	-153.202	-347.09	1,323.31	1,706.31	1,661.01	45.29	37.672	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 513H - OH - Plan 1 08-31-22													Offset Site Error:	0.00 usft	
Survey Program:		0-MWD+HRGM		Offset			Semi Maior Axis		Offset Wellbore Centre		Rule Assigned:			Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
10,300.00	10,291.04	10,277.22	10,269.50	31.48	30.77	-153.135	-351.23	1,324.04	1,711.61	1,665.88	45.73	37.426			
10,400.00	10,390.94	10,377.05	10,369.25	31.81	31.09	-153.070	-355.37	1,324.77	1,716.91	1,670.74	46.17	37.184			
10,500.00	10,490.84	10,476.89	10,469.00	32.14	31.41	-153.004	-359.52	1,325.50	1,722.22	1,675.61	46.61	36.947			
10,600.00	10,590.74	10,576.73	10,568.75	32.47	31.73	-152.939	-363.66	1,326.24	1,727.53	1,680.47	47.05	36.715			
10,700.00	10,690.63	10,676.57	10,668.50	32.80	32.06	-152.875	-367.80	1,326.97	1,732.84	1,685.34	47.49	36.486			
10,800.00	10,790.53	10,776.41	10,768.25	33.13	32.38	-152.810	-371.94	1,327.70	1,738.15	1,690.22	47.93	36.262			
10,900.00	10,890.43	10,876.25	10,868.01	33.46	32.70	-152.747	-376.08	1,328.43	1,743.46	1,695.09	48.37	36.041			
11,000.00	10,990.32	10,976.09	10,967.76	33.79	33.03	-152.683	-380.22	1,329.16	1,748.78	1,699.97	48.81	35.825			
11,100.00	11,090.22	11,075.93	11,067.51	34.12	33.35	-152.620	-384.36	1,329.89	1,754.10	1,704.84	49.26	35.612			
11,200.00	11,190.12	11,175.77	11,167.26	34.45	33.68	-152.558	-388.50	1,330.62	1,759.42	1,709.72	49.70	35.403			
11,300.00	11,290.02	11,275.61	11,267.01	34.78	34.00	-152.495	-392.64	1,331.35	1,764.74	1,714.61	50.14	35.198			
11,400.00	11,389.91	11,375.45	11,366.76	35.11	34.32	-152.433	-396.79	1,332.09	1,770.07	1,719.49	50.58	34.996			
11,444.32	11,434.18	11,419.70	11,410.97	35.25	34.47	-152.406	-398.62	1,332.41	1,772.43	1,721.66	50.77	34.912			
11,500.00	11,489.83	11,475.31	11,466.53	35.42	34.65	-152.387	-400.93	1,332.82	1,774.92	1,723.92	51.00	34.802			
11,574.22	11,564.04	11,549.46	11,540.62	35.53	34.89	98.213	-404.00	1,333.36	1,776.74	1,725.53	51.21	34.694			
11,600.00	11,589.82	11,575.22	11,566.35	35.53	34.97	98.246	-405.07	1,333.55	1,777.08	1,725.83	51.25	34.675			
11,700.00	11,689.82	11,675.13	11,666.17	35.54	35.29	98.375	-409.22	1,334.28	1,778.41	1,727.00	51.41	34.590			
11,800.00	11,789.82	11,775.04	11,766.00	35.56	35.62	98.504	-413.36	1,335.01	1,779.74	1,728.16	51.58	34.502			
11,900.00	11,889.82	11,874.95	11,865.82	35.58	35.94	98.632	-417.50	1,335.74	1,781.09	1,729.33	51.76	34.412			
12,000.00	11,989.82	11,991.71	11,982.52	35.60	36.30	98.744	-421.13	1,336.38	1,782.12	1,730.18	51.94	34.309			
12,074.22	12,064.04	12,073.24	12,064.04	35.61	36.36	98.751	-421.36	1,336.42	1,782.18	1,730.21	51.97	34.293			
12,100.00	12,089.81	12,099.01	12,089.81	35.62	36.36	-80.704	-421.36	1,336.42	1,782.09	1,730.13	51.96	34.296			
12,150.00	12,139.60	12,148.80	12,139.60	35.69	36.36	-80.914	-421.36	1,336.42	1,781.38	1,729.44	51.94	34.296			
12,200.00	12,188.82	12,198.02	12,188.82	35.77	36.36	-81.323	-421.36	1,336.42	1,780.01	1,728.09	51.91	34.287			
12,250.00	12,237.08	12,246.28	12,237.08	35.86	36.36	-81.918	-421.36	1,336.42	1,778.04	1,726.16	51.89	34.268			
12,300.00	12,284.02	12,293.23	12,284.02	35.96	36.36	-82.676	-421.36	1,336.42	1,775.60	1,723.74	51.86	34.239			
12,350.00	12,329.30	12,338.50	12,329.30	36.06	36.36	-83.569	-421.36	1,336.42	1,772.80	1,720.96	51.83	34.201			
12,400.00	12,372.55	12,381.75	12,372.55	36.17	36.37	-84.565	-421.36	1,336.42	1,769.81	1,717.99	51.82	34.154			
12,450.00	12,413.46	12,422.66	12,413.46	36.28	36.37	-85.623	-421.36	1,336.42	1,766.82	1,715.01	51.82	34.098			
12,500.00	12,451.70	12,460.90	12,451.70	36.40	36.37	-86.701	-421.36	1,336.42	1,764.02	1,712.19	51.83	34.035			
12,550.00	12,487.00	12,496.20	12,487.00	36.51	36.37	-87.753	-421.36	1,336.42	1,761.61	1,709.75	51.86	33.965			
12,600.00	12,519.08	12,528.24	12,519.04	36.63	36.37	-88.733	-421.36	1,336.42	1,759.80	1,707.88	51.92	33.897			
12,650.00	12,547.69	12,555.79	12,546.58	36.75	36.43	-89.557	-422.02	1,336.43	1,758.80	1,706.78	52.01	33.815			
12,678.74	12,562.48	12,571.78	12,562.53	36.81	36.50	-90.002	-423.01	1,336.44	1,758.64	1,706.54	52.10	33.758			
12,700.00	12,572.62	12,583.69	12,574.40	36.86	36.56	-90.317	-424.04	1,336.45	1,758.73	1,706.57	52.16	33.716			
12,750.00	12,593.68	12,612.05	12,602.55	36.99	36.71	-91.007	-427.48	1,336.48	1,759.67	1,707.31	52.36	33.608			
12,800.00	12,610.72	12,641.04	12,631.11	37.11	36.90	-91.625	-432.43	1,336.53	1,761.69	1,709.08	52.61	33.487			
12,850.00	12,623.59	12,670.84	12,660.17	37.23	37.09	-92.168	-439.01	1,336.59	1,764.84	1,711.93	52.92	33.352			
12,900.00	12,632.20	12,701.78	12,689.94	37.36	37.30	-92.638	-447.44	1,336.68	1,769.19	1,715.91	53.28	33.206			
12,950.00	12,636.49	12,734.33	12,720.72	37.49	37.52	-93.046	-458.03	1,336.78	1,774.75	1,721.04	53.71	33.042			
12,974.22	12,637.00	12,750.90	12,736.14	37.55	37.63	-93.227	-464.08	1,336.84	1,777.90	1,723.96	53.94	32.960			
13,000.00	12,637.00	12,770.37	12,754.02	37.62	37.76	-93.807	-471.76	1,336.91	1,781.53	1,727.32	54.21	32.863			
13,100.00	12,637.00	12,888.31	12,855.87	37.92	38.53	-97.094	-530.82	1,337.48	1,797.47	1,741.89	55.59	32.337			
13,200.00	12,637.00	13,149.77	13,025.65	38.28	39.85	-102.462	-726.66	1,339.36	1,812.56	1,754.52	58.04	31.227			
13,300.00	12,637.00	13,465.93	13,092.00	38.69	40.40	-104.507	-1,031.97	1,342.30	1,816.33	1,755.22	61.12	29.719			
13,400.00	12,637.00	13,565.93	13,092.00	39.15	40.42	-104.508	-1,131.97	1,343.27	1,816.30	1,753.58	62.72	28.957			
13,500.00	12,637.00	13,665.93	13,092.00	39.66	40.45	-104.508	-1,231.96	1,344.23	1,816.27	1,751.85	64.42	28.196			
13,600.00	12,637.00	13,765.93	13,092.00	40.23	40.48	-104.508	-1,331.96	1,345.19	1,816.23	1,750.05	66.19	27.442			
13,700.00	12,637.00	13,865.93	13,092.00	40.84	40.52	-104.508	-1,431.95	1,346.15	1,816.20	1,748.17	68.02	26.699			
13,800.00	12,637.00	13,965.93	13,092.00	41.49	40.56	-104.509	-1,531.95	1,347.12	1,816.16	1,746.24	69.93	25.973			
13,900.00	12,637.00	14,065.93	13,092.00	42.20	40.61	-104.509	-1,631.94	1,348.08	1,816.13	1,744.24	71.89	25.264			
14,000.00	12,637.00	14,165.93	13,092.00	42.94	40.67	-104.509	-1,731.94	1,349.04	1,816.09	1,742.19	73.90	24.575			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 513H - OH - Plan 1 08-31-22												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,100.00	12,637.00	14,265.93	13,092.00	43.73	40.73	-104.510	-1,831.93	1,350.00	1,816.06	1,740.10	75.96	23.907	
14,200.00	12,637.00	14,365.93	13,092.00	44.55	40.81	-104.510	-1,931.93	1,350.97	1,816.03	1,737.95	78.07	23.261	
14,300.00	12,637.00	14,465.93	13,092.00	45.41	40.91	-104.510	-2,031.93	1,351.93	1,815.99	1,735.77	80.22	22.637	
14,400.00	12,637.00	14,565.93	13,092.00	46.30	41.04	-104.510	-2,131.92	1,352.89	1,815.96	1,733.55	82.41	22.035	
14,500.00	12,637.00	14,665.93	13,092.00	47.23	41.22	-104.511	-2,231.92	1,353.86	1,815.92	1,731.29	84.63	21.456	
14,600.00	12,637.00	14,765.93	13,092.00	48.18	41.46	-104.511	-2,331.91	1,354.82	1,815.89	1,729.00	86.89	20.899	
14,700.00	12,637.00	14,865.93	13,092.00	49.16	41.83	-104.511	-2,431.91	1,355.78	1,815.85	1,726.68	89.18	20.363	
14,800.00	12,637.00	14,965.93	13,092.00	50.17	42.37	-104.512	-2,531.90	1,356.74	1,815.82	1,724.33	91.49	19.847	
14,900.00	12,637.00	15,065.93	13,092.00	51.19	43.12	-104.512	-2,631.90	1,357.71	1,815.78	1,721.96	93.83	19.352	
15,000.00	12,637.00	15,165.93	13,092.00	52.25	44.07	-104.512	-2,731.89	1,358.67	1,815.75	1,719.56	96.19	18.876	
15,100.00	12,637.00	15,265.93	13,092.00	53.32	45.16	-104.512	-2,831.89	1,359.63	1,815.72	1,717.14	98.58	18.419	
15,200.00	12,637.00	15,365.93	13,092.00	54.41	46.35	-104.513	-2,931.88	1,360.59	1,815.68	1,714.70	100.98	17.980	
15,300.00	12,637.00	15,465.93	13,092.00	55.51	47.58	-104.513	-3,031.88	1,361.56	1,815.65	1,712.24	103.41	17.558	
15,400.00	12,637.00	15,565.93	13,092.00	56.64	48.86	-104.513	-3,131.87	1,362.52	1,815.61	1,709.76	105.85	17.152	
15,500.00	12,637.00	15,665.93	13,092.00	57.78	50.16	-104.514	-3,231.87	1,363.48	1,815.58	1,707.26	108.31	16.762	
15,600.00	12,637.00	15,765.93	13,092.00	58.93	51.48	-104.514	-3,331.87	1,364.45	1,815.54	1,704.75	110.79	16.387	
15,700.00	12,637.00	15,865.93	13,092.00	60.10	52.81	-104.514	-3,431.86	1,365.41	1,815.51	1,702.23	113.28	16.026	
15,800.00	12,637.00	15,965.93	13,092.00	61.28	54.15	-104.514	-3,531.86	1,366.37	1,815.47	1,699.69	115.79	15.679	
15,900.00	12,637.00	16,065.93	13,092.00	62.47	55.50	-104.515	-3,631.85	1,367.33	1,815.44	1,697.13	118.31	15.345	
16,000.00	12,637.00	16,165.93	13,092.00	63.67	56.86	-104.515	-3,731.85	1,368.30	1,815.41	1,694.57	120.84	15.024	
16,100.00	12,637.00	16,265.93	13,092.00	64.88	58.23	-104.515	-3,831.84	1,369.26	1,815.37	1,691.99	123.38	14.714	
16,200.00	12,637.00	16,365.93	13,092.00	66.11	59.59	-104.516	-3,931.84	1,370.22	1,815.34	1,689.40	125.93	14.415	
16,300.00	12,637.00	16,465.93	13,092.00	67.34	60.97	-104.516	-4,031.83	1,371.18	1,815.30	1,686.81	128.50	14.127	
16,400.00	12,637.00	16,565.93	13,092.00	68.58	62.34	-104.516	-4,131.83	1,372.15	1,815.27	1,684.20	131.07	13.850	
16,500.00	12,637.00	16,665.93	13,092.00	69.82	63.73	-104.516	-4,231.82	1,373.11	1,815.23	1,681.58	133.65	13.582	
16,600.00	12,637.00	16,765.93	13,092.00	71.08	65.11	-104.517	-4,331.82	1,374.07	1,815.20	1,678.96	136.24	13.323	
16,700.00	12,637.00	16,865.93	13,092.00	72.34	66.50	-104.517	-4,431.81	1,375.03	1,815.17	1,676.32	138.84	13.074	
16,800.00	12,637.00	16,965.93	13,092.00	73.61	67.88	-104.517	-4,531.81	1,376.00	1,815.13	1,673.68	141.45	12.833	
16,900.00	12,637.00	17,065.93	13,092.00	74.88	69.28	-104.517	-4,631.81	1,376.96	1,815.10	1,671.04	144.06	12.600	
17,000.00	12,637.00	17,165.93	13,092.00	76.16	70.67	-104.518	-4,731.80	1,377.92	1,815.06	1,668.38	146.68	12.374	
17,100.00	12,637.00	17,265.93	13,092.00	77.45	72.07	-104.518	-4,831.80	1,378.89	1,815.03	1,665.72	149.31	12.156	
17,200.00	12,637.00	17,365.93	13,092.00	78.74	73.46	-104.518	-4,931.79	1,379.85	1,814.99	1,663.05	151.94	11.945	
17,300.00	12,637.00	17,465.93	13,092.00	80.04	74.86	-104.519	-5,031.79	1,380.81	1,814.96	1,660.38	154.58	11.741	
17,400.00	12,637.00	17,565.93	13,092.00	81.34	76.26	-104.519	-5,131.78	1,381.77	1,814.92	1,657.70	157.23	11.543	
17,500.00	12,637.00	17,665.93	13,092.00	82.65	77.66	-104.519	-5,231.78	1,382.74	1,814.89	1,655.01	159.88	11.352	
17,600.00	12,637.00	17,765.93	13,092.00	83.96	79.07	-104.519	-5,331.77	1,383.70	1,814.86	1,652.32	162.53	11.166	
17,700.00	12,637.00	17,865.93	13,092.00	85.27	80.47	-104.520	-5,431.77	1,384.66	1,814.82	1,649.63	165.19	10.986	
17,800.00	12,637.00	17,965.93	13,092.00	86.59	81.88	-104.520	-5,531.76	1,385.62	1,814.79	1,646.93	167.86	10.811	
17,900.00	12,637.00	18,065.93	13,092.00	87.91	83.28	-104.520	-5,631.76	1,386.59	1,814.75	1,644.22	170.53	10.642	
18,000.00	12,637.00	18,165.93	13,092.00	89.24	84.69	-104.521	-5,731.75	1,387.55	1,814.72	1,641.52	173.20	10.477	
18,100.00	12,637.00	18,265.93	13,092.00	90.57	86.10	-104.521	-5,831.75	1,388.51	1,814.68	1,638.80	175.88	10.318	
18,200.00	12,637.00	18,365.93	13,092.00	91.90	87.51	-104.521	-5,931.74	1,389.47	1,814.65	1,636.09	178.56	10.163	
18,300.00	12,637.00	18,465.93	13,092.00	93.24	88.92	-104.521	-6,031.74	1,390.44	1,814.61	1,633.37	181.25	10.012	
18,400.00	12,637.00	18,565.93	13,092.00	94.58	90.33	-104.522	-6,131.74	1,391.40	1,814.58	1,630.64	183.94	9.865	
18,500.00	12,637.00	18,665.93	13,092.00	95.92	91.75	-104.522	-6,231.73	1,392.36	1,814.55	1,627.92	186.63	9.723	
18,600.00	12,637.00	18,765.93	13,092.00	97.26	93.16	-104.522	-6,331.73	1,393.33	1,814.51	1,625.19	189.32	9.584	
18,700.00	12,637.00	18,865.93	13,092.00	98.61	94.57	-104.523	-6,431.72	1,394.29	1,814.48	1,622.45	192.02	9.449	
18,800.00	12,637.00	18,965.93	13,092.00	99.96	95.99	-104.523	-6,531.72	1,395.25	1,814.44	1,619.72	194.72	9.318	
18,900.00	12,637.00	19,065.93	13,092.00	101.31	97.40	-104.523	-6,631.71	1,396.21	1,814.41	1,616.98	197.43	9.190	
19,000.00	12,637.00	19,165.93	13,092.00	102.67	98.82	-104.523	-6,731.71	1,397.18	1,814.37	1,614.24	200.14	9.066	
19,100.00	12,637.00	19,265.93	13,092.00	104.02	100.24	-104.524	-6,831.70	1,398.14	1,814.34	1,611.49	202.85	8.944	
19,200.00	12,637.00	19,365.93	13,092.00	105.38	101.65	-104.524	-6,931.70	1,399.10	1,814.31	1,608.75	205.56	8.826	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 513H - OH - Plan 1 08-31-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	12,637.00	19,465.93	13,092.00	106.74	103.07	-104.524	-7,031.69	1,400.06	1,814.27	1,606.00	208.27	8.711	
19,400.00	12,637.00	19,565.93	13,092.00	108.11	104.49	-104.525	-7,131.69	1,401.03	1,814.24	1,603.24	210.99	8.599	
19,500.00	12,637.00	19,665.93	13,092.00	109.47	105.91	-104.525	-7,231.68	1,401.99	1,814.20	1,600.49	213.71	8.489	
19,600.00	12,637.00	19,765.93	13,092.00	110.84	107.33	-104.525	-7,331.68	1,402.95	1,814.17	1,597.73	216.43	8.382	
19,700.00	12,637.00	19,865.93	13,092.00	112.20	108.75	-104.525	-7,431.68	1,403.92	1,814.13	1,594.98	219.16	8.278	
19,800.00	12,637.00	19,965.93	13,092.00	113.57	110.17	-104.526	-7,531.67	1,404.88	1,814.10	1,592.21	221.88	8.176	
19,900.00	12,637.00	20,065.93	13,092.00	114.95	111.59	-104.526	-7,631.67	1,405.84	1,814.06	1,589.45	224.61	8.076	
20,000.00	12,637.00	20,165.93	13,092.00	116.32	113.01	-104.526	-7,731.66	1,406.80	1,814.03	1,586.69	227.34	7.979	
20,100.00	12,637.00	20,265.93	13,092.00	117.69	114.43	-104.526	-7,831.66	1,407.77	1,814.00	1,583.92	230.07	7.884	
20,200.00	12,637.00	20,365.93	13,092.00	119.07	115.85	-104.527	-7,931.65	1,408.73	1,813.96	1,581.15	232.81	7.792	
20,300.00	12,637.00	20,465.93	13,092.00	120.45	117.27	-104.527	-8,031.65	1,409.69	1,813.93	1,578.38	235.54	7.701	
20,400.00	12,637.00	20,565.93	13,092.00	121.83	118.70	-104.527	-8,131.64	1,410.65	1,813.89	1,575.61	238.28	7.612	
20,500.00	12,637.00	20,665.93	13,092.00	123.21	120.12	-104.528	-8,231.64	1,411.62	1,813.86	1,572.84	241.02	7.526	
20,600.00	12,637.00	20,765.93	13,092.00	124.59	121.54	-104.528	-8,331.63	1,412.58	1,813.82	1,570.06	243.76	7.441	
20,700.00	12,637.00	20,865.93	13,092.00	125.97	122.96	-104.528	-8,431.63	1,413.54	1,813.79	1,567.29	246.50	7.358	
20,800.00	12,637.00	20,965.93	13,092.00	127.35	124.39	-104.528	-8,531.62	1,414.50	1,813.75	1,564.51	249.24	7.277	
20,900.00	12,637.00	21,065.93	13,092.00	128.74	125.81	-104.529	-8,631.62	1,415.47	1,813.72	1,561.73	251.99	7.198	
21,000.00	12,637.00	21,165.93	13,092.00	130.12	127.24	-104.529	-8,731.61	1,416.43	1,813.69	1,558.95	254.73	7.120	
21,100.00	12,637.00	21,265.93	13,092.00	131.51	128.66	-104.529	-8,831.61	1,417.39	1,813.65	1,556.17	257.48	7.044	
21,200.00	12,637.00	21,365.93	13,092.00	132.90	130.09	-104.530	-8,931.61	1,418.36	1,813.62	1,553.39	260.23	6.969	
21,300.00	12,637.00	21,465.93	13,092.00	134.29	131.51	-104.530	-9,031.60	1,419.32	1,813.58	1,550.60	262.98	6.896	
21,400.00	12,637.00	21,565.93	13,092.00	135.68	132.94	-104.530	-9,131.60	1,420.28	1,813.55	1,547.82	265.73	6.825	
21,500.00	12,637.00	21,665.93	13,092.00	137.07	134.36	-104.530	-9,231.59	1,421.24	1,813.51	1,545.03	268.48	6.755	
21,600.00	12,637.00	21,765.93	13,092.00	138.46	135.79	-104.531	-9,331.59	1,422.21	1,813.48	1,542.25	271.23	6.686	
21,700.00	12,637.00	21,865.93	13,092.00	139.85	137.21	-104.531	-9,431.58	1,423.17	1,813.45	1,539.46	273.99	6.619	
21,800.00	12,637.00	21,965.93	13,092.00	141.25	138.64	-104.531	-9,531.58	1,424.13	1,813.41	1,536.67	276.74	6.553	
21,900.00	12,637.00	22,065.93	13,092.00	142.64	140.06	-104.532	-9,631.57	1,425.09	1,813.38	1,533.88	279.50	6.488	
22,000.00	12,637.00	22,165.93	13,092.00	144.04	141.49	-104.532	-9,731.57	1,426.06	1,813.34	1,531.09	282.26	6.424	
22,100.00	12,637.00	22,265.93	13,092.00	145.43	142.92	-104.532	-9,831.56	1,427.02	1,813.31	1,528.29	285.01	6.362	
22,200.00	12,637.00	22,365.93	13,092.00	146.83	144.34	-104.532	-9,931.56	1,427.98	1,813.27	1,525.50	287.77	6.301	
22,300.00	12,637.00	22,465.93	13,092.00	148.23	145.77	-104.533	-10,031.55	1,428.94	1,813.24	1,522.71	290.53	6.241	
22,400.00	12,637.00	22,565.93	13,092.00	149.63	147.20	-104.533	-10,131.55	1,429.91	1,813.20	1,519.91	293.29	6.182	
22,500.00	12,637.00	22,665.93	13,092.00	151.02	148.63	-104.533	-10,231.55	1,430.87	1,813.17	1,517.11	296.06	6.124	
22,562.34	12,637.00	22,728.24	13,092.00	151.90	149.52	-104.533	-10,293.86	1,431.47	1,813.15	1,515.37	297.78	6.089	
22,600.00	12,637.00	22,728.24	13,092.00	152.42	149.52	-104.533	-10,293.86	1,431.47	1,813.53	1,515.27	298.26	6.080 SF	
22,700.00	12,637.00	22,728.24	13,092.00	153.83	149.52	-104.533	-10,293.86	1,431.47	1,818.32	1,519.37	298.95	6.082	
22,800.00	12,637.00	22,728.24	13,092.00	155.23	149.52	-104.533	-10,293.86	1,431.47	1,828.58	1,529.77	298.81	6.119	
22,900.00	12,637.00	22,728.24	13,092.00	156.63	149.52	-104.533	-10,293.86	1,431.47	1,844.21	1,546.34	297.87	6.191	
23,000.00	12,637.00	22,728.24	13,092.00	158.03	149.52	-104.533	-10,293.86	1,431.47	1,865.08	1,568.91	296.17	6.297	
23,100.00	12,637.00	22,728.24	13,092.00	159.43	149.52	-104.533	-10,293.86	1,431.47	1,891.02	1,597.24	293.78	6.437	
23,124.22	12,637.00	22,728.24	13,092.00	159.77	149.52	-104.533	-10,293.86	1,431.47	1,898.04	1,604.94	293.10	6.476	

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



Anticollision Report

TITUS

OIL GAS LLC

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Reference Depths are relative to RKB @ 3200.50usft (TBD)

Offset Depths are relative to Offset Datum

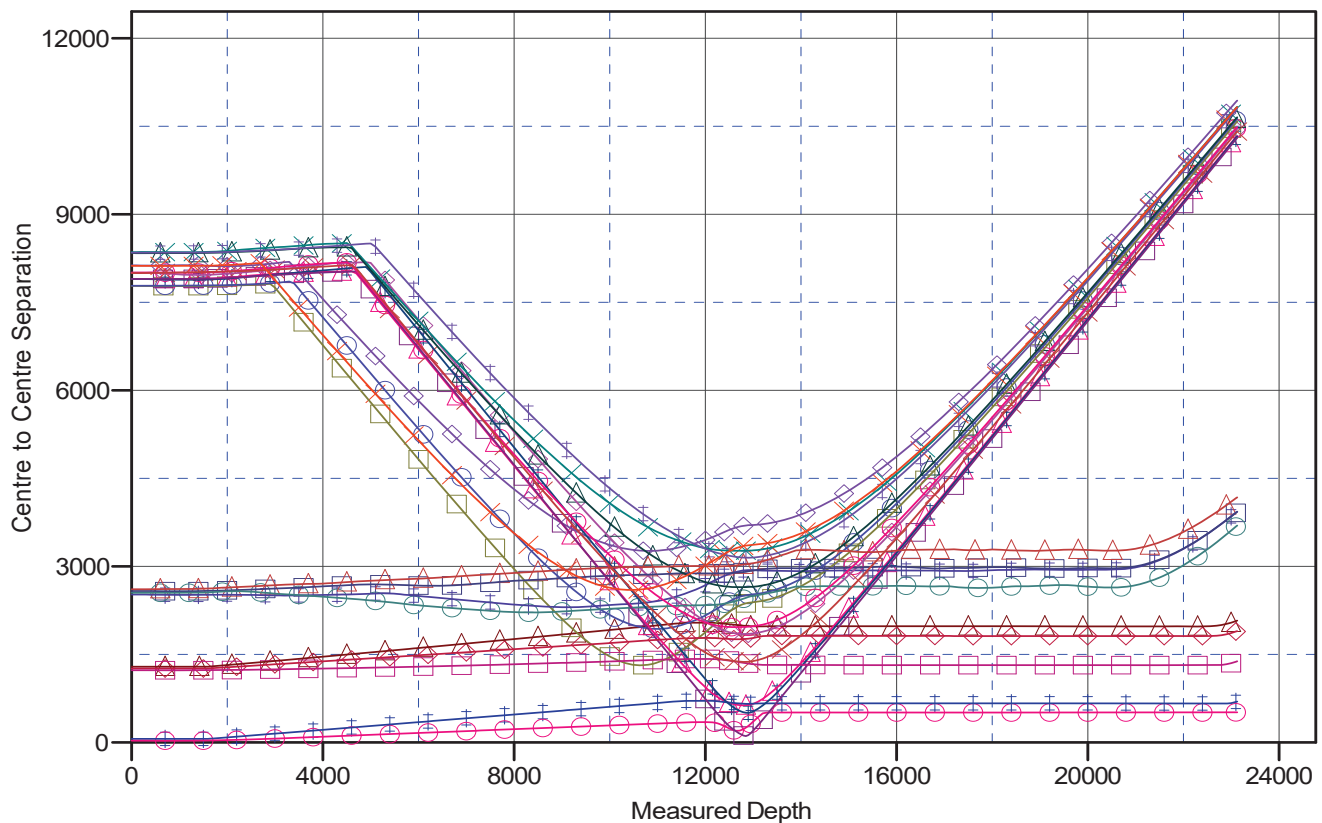
Central Meridian is 104° 19' 60.000000 W

Coordinates are relative to: El Campeon Fed Com 412H

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

Grid Convergence at Surface is: 0.500°

Ladder Plot



LEGEND

El Campeon Red Com 433H, OH, Plan 1 08-31-22 V0	El Campeon Red Com 432H, OH, Plan 1 08-31-22 V0	Cattlemen Red Com 434H, OH / 67733, Surveys (H&P 474) V0
Cattlemen Red Com 123H, OH / 69915, Surveys (H&P 616) V0	434H, OH / 6823, Surveys (H&P 474) V0	Cattlemen Red Com 514H, OH / 67734, Surveys (H&P 474) V0
Cattlemen Red Com 213H, OH / 69914, Surveys (H&P 616) V0	512H, OH / 6837, Surveys (H&P 625) V0	El Campeon Red Com 413H, OH, Plan 1 08-31-22 V0
Cattlemen Red Com 204H, OH / 69917, Surveys (H&P 656) V0	El Campeon Red Com 512H, OH, Plan 1 08-31-22 V0	433H, OH / 68696, Surveys (H&P 656) V0
214H, OH / 6821, Surveys (H&P 474) V0	432H, OH / 6836, Surveys (H&P 625) V0	Cattlemen Red Com 114H, OH / 69918, Surveys (H&P 656) V0
513H, OH / 6905, Surveys (H&P 656) V0	Cattlemen Red Com 404H, OH / 67732, Surveys (H&P 474) V0	404H, OH / 6822, Surveys (H&P 474) V0
422H, OH / 6835, Surveys (H&P 625) V0	El Campeon Red Com 513H, OH, Plan 1 08-31-22 V0	
514H, OH / 6824, Surveys (H&P 474) V0	403H, OH / 6904, Surveys (H&P 656) V0	

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



Anticollision Report

TITUS
OIL GAS LLC

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 412H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 412H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Reference Depths are relative to RKB @ 3200.50usft (TBD)

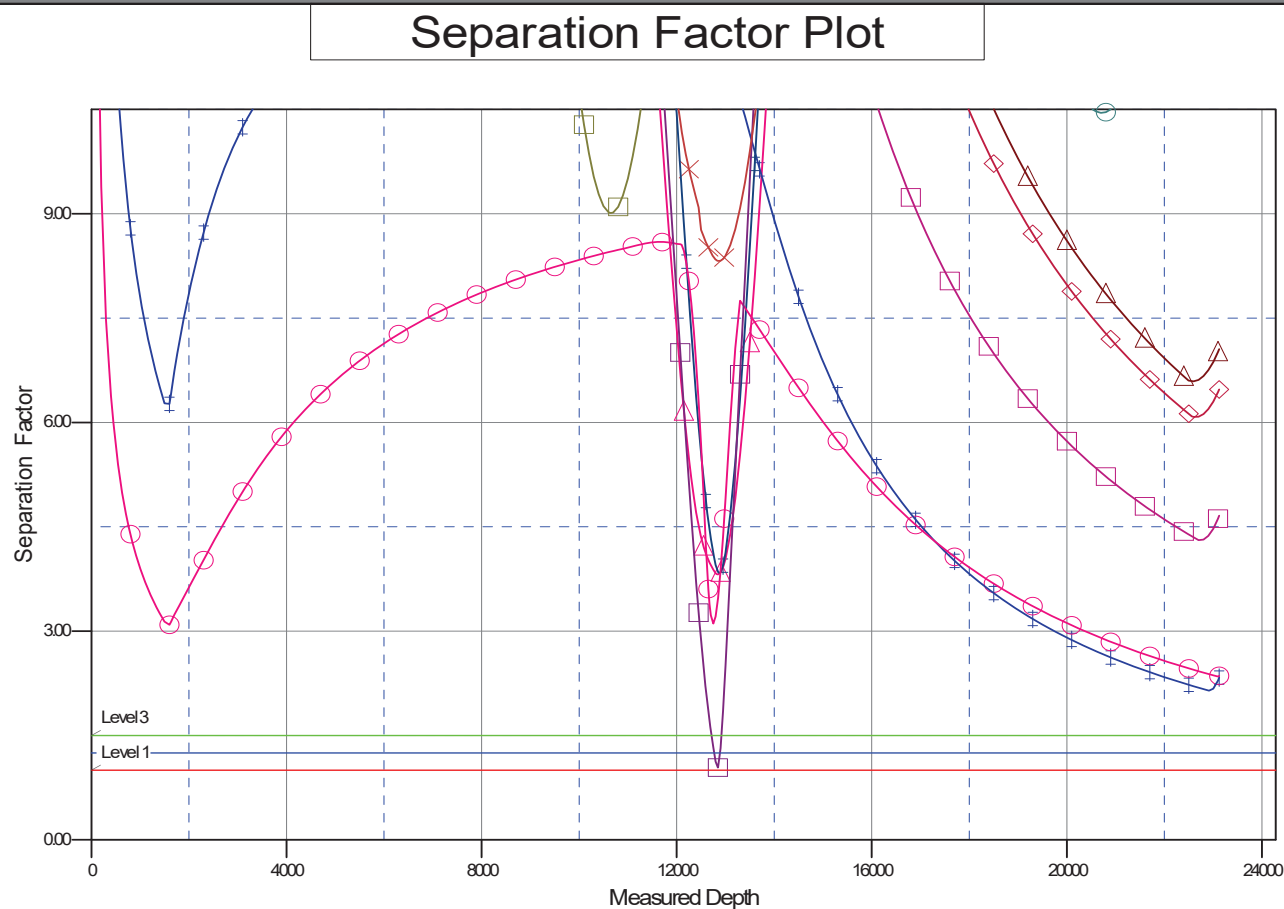
Offset Depths are relative to Offset Datum

Central Meridian is 104° 19' 60.000000 W




















Coordinates are relative to: El Campeon Fed Com 412H

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

Grid Convergence at Surface is: 0.500°



LEGEND

	El Campeon Red Dom 433H, OH, Plan 108-31-22 V0		El Campeon Red Dom 432H, OH, Plan 108-31-22 V0		Cattlemen Red Dom 434H, OH / 67733, Surveys (H&P 474) V0
	Cattlemen Red Dom 123H, OH / 69915, Surveys (H&P 616) V0		434H, OH / 69623, Surveys (H&P 474) V0		El Campeon Red Dom 514H, OH / 67734, Surveys (H&P 474) V0
	Cattlemen Red Dom 213H, OH / 69917, Surveys (H&P 616) V0		El Campeon Red Dom 512H, OH, Plan 108-31-22 V0		El Campeon Red Dom 413H, OH, Plan 108-31-22 V0
	El Campeon Red Dom 204H, OH / 69917, Surveys (H&P 656) V0		432H, OH / 68636, Surveys (H&P 625) V0		433H, OH / 68696, Surveys (H&P 656) V0
	214H, OH / 6821, Surveys (H&P 474) V0		Cattlemen Red Dom 404H, OH / 67237, Surveys (H&P 474) V0		Cattlemen Red Dom 114H, OH / 69918, Surveys (H&P 656) V0
	513H, OH / 69705, Surveys (H&P 656) V0		El Campeon Red Dom 513H, OH, Plan 108-31-22 V0		404H, OH / 68222, Surveys (H&P 474) V0
	422H, OH / 68335, Surveys (H&P 625) V0		403H, OH / 68704, Surveys (H&P 656) V0		
	514H, OH / 6824, Surveys (H&P 474) V0				

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



Well Control Plan For 10M MASP Section of Wellbore

1. Component and Preventer Compatibility Table

The table below covers drilling and casing of the 10M MASP portion of the well and outlines the tubulars and the compatible preventers in use. Combined with the mud program, the below documents that two barriers to flow can be maintained at all times, independent of the rating of the annular preventer.

Component	OD	Preventer	RWP
Drill pipe	4.5"	Upper 4.5-7" VBR Lower 4.5-7" VBR	10M
HWDP	4.5"		
Jars	4.5"		
Drill collars and MWD tools	4.75-5.75"		
Mud Motor	4.75-5.75"		
Production casing	5.5" x 5"		
ALL	0 - 13-5/8"	Annular	5M
Open-hole	-	Blind Rams	10M

VBR = Variable Bore Ram with compatible range listed in chart.

2. Well Control and Shut-In Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are minimum tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. The maximum pressure at which well control is transferred from the annular to another compatible ram is 2500 psi.

Drilling:

1. Sound the alarm (alert rig crew)
2. Space out the drill string
3. Shut down pumps and stop the rotary
4. Shut-in the well with the annular with HCR and choke in closed position
5. Confirm the well is shut-in
6. Notify contractor and company representatives
7. Read and record the following data
 - Time of shut-in
 - SIDPP and SICP
 - Pit gain
8. If pressure has increased to or is anticipated to increase to 2500 psi, confirm spacing and close the upper pipe rams.
9. Prepare for well kill operation.

Tripping:

1. Sound alarm (alert rig crew)
2. Stab full opening safety valve and close the valve
3. Space out the drill string
4. Shut-in the well with the annular with HCR and choke in closed position
5. Confirm shut-in
6. Notify contractor and company representatives
7. Read and record the following data:



Well Control Plan For 10M MASP Section of Wellbore

- Time of shut-in
 - SIDPP and SICP
 - Pit gain
8. If pressure has increased to or is anticipated to increase to 2500 psi, confirm spacing and close the upper pipe rams.
 9. Prepare for well kill operation.

Running Casing

1. Sound alarm (alert rig crew)
2. Stab crossover and valve and close the valve
3. Shut-in the well with annular with HCR and choke in closed position
4. Confirm shut-in
5. Notify contractor and company representatives
6. Read and record the following data
 - Time of shut-in
 - SIDPP and SICP
 - Pit gain
7. If pressure has increased to or is anticipated to increase to 2500 psi, confirm spacing and close the upper pipe rams.
8. Prepare for well kill operation

No Pipe in Hole (Open Hole)

1. Well will be shut in with blind rams and choke in closed position, while HCR is open at any point when pipe or BHA are not in BOP stack. If pressure increase is observed:
2. Sound alarm (alert crew)
3. Confirm shut-in
4. Notify contractor and company representatives
5. Read and record the following data
 - Time of shut-in
 - Time of pressure increase
 - SICP
6. Prepare for well kill operation

Pulling BHA through BOP Stack

1. Prior to pulling last joint/stand of drillpipe through the stack, perform a flow check. If well is flowing:
 - a. Sound alarm (alert crew)
 - b. Stab full opening safety valve and close the valve
 - c. Space out the drill string
 - d. Shut-in the well with the annular with HCR and choke in closed position
 - e. Confirm shut-in
 - f. Notify contractor and company representatives
 - g. Read and record the following data
 - Time of shut-in
 - SIDPP and SICP
 - Pit gain
 - h. If pressure has increased to or is anticipated to increase to 2500 psi, confirm spacing and close the upper pipe rams.
 - i. Prepare for well kill operation.



Well Control Plan For 10M MASP Section of Wellbore

2. With BHA in the stack:
 - a. If possible to pick up high enough, pull BHA clear of the stack
 - i. Follow "Open Hole" procedure above
 - b. If impossible to pick up high enough to pull BHA clear of the stack:
 - i. Stab crossover, make up one joint/stand of drillpipe, and full opening safety valve and close
 - ii. Space out drill string with tooljoint just beneath the upper pipe ram.
 - iii. Shut-in the well with upper pipe ram with HCR and choke in closed position
 - iv. Confirm shut-in
 - v. Notify contractor and company representatives
 - vi. Read and record the following:
 - Time of shut-in
 - SIDPP and SICP
 - Pit gain
 - vii. Prepare for well kill operation.

3. Well Control Drills

Well control drills are specific to the rig equipment, personnel and operation at the time a kick occurs. Each crew will execute one drill weekly relevant to ongoing operations, but will make a reasonable attempt to vary the type of drills. The drills will be recorded in the daily drilling log. Below are minimum tasks for respective well control drills.

Drilling/Pit:

Action	Responsible Party
Initiate Drill <ul style="list-style-type: none"> Lift Flow Sensor or Pit Float to indicate a kick Immediately record start time 	Company Representative / Rig Manager
Recognition <ul style="list-style-type: none"> Driller and/or Crew recognizes indicator Driller stop drilling, pick up off bottom and spaces out drill string, stop pumps and rotary Conduct flow check 	Driller
Initiate Action <ul style="list-style-type: none"> Sound alarm, notify rig crew that the well is flowing 	Company Representative / Rig Manager
Reaction <ul style="list-style-type: none"> Driller moves BOP remote and stands by Crew is at their assigned stations Time is stopped Record time and drill type in the Drilling Report 	Driller / Crew



Well Control Plan For 10M MASP Section of Wellbore

Tripping Pit Drills (either in the hole or out of the hole)

Action	Responsible Party
Initiate Drill <ul style="list-style-type: none"> Lift Flow Sensor or Pit Float to indicate a kick Immediately record start time 	Company Representative / Rig Manager
Recognition <ul style="list-style-type: none"> Driller recognizes indicator Suspends tripping operations Conduct Flow Check 	Driller
Initiate Action <ul style="list-style-type: none"> Sound alarm, notify rig crew that the well is flowing 	Company Representative / Rig Manager
Reaction <ul style="list-style-type: none"> Position tool joint above rotary and set slips Stab FOSV and close valve Driller moves to BOP remote and stands by Crew is at their assigned stations Time is stopped Record time and drill type in the Drilling Report 	Driller / Crew

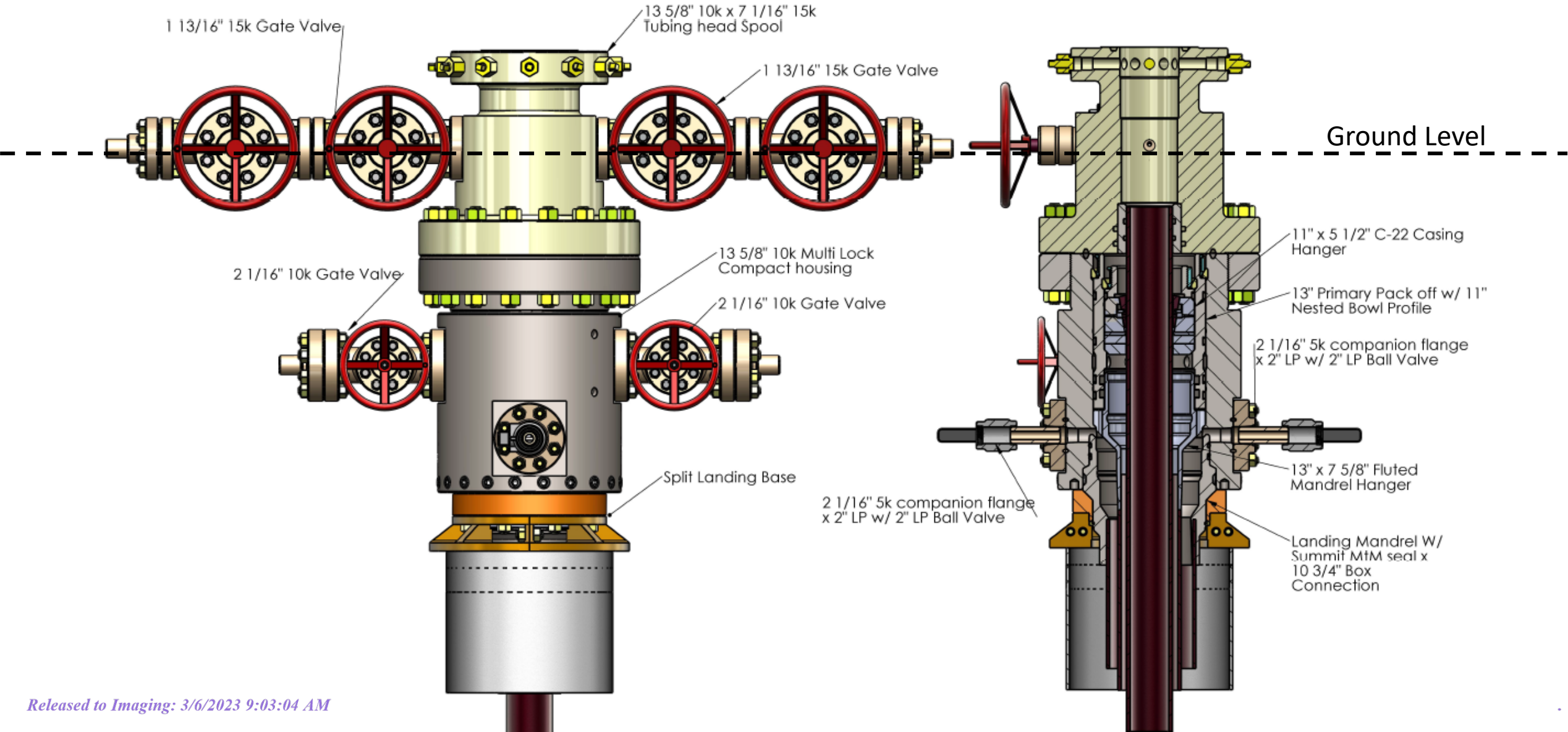
Choke

Action	Responsible Party
<ul style="list-style-type: none"> Have designated choke operator on station at the choke panel Close annular preventer Pressure annulus up 200-300 psi Pump slowly to bump the float and obtain SIDPP At choke operator instruction, slowly bring pumps online to slow pump rate while holding casing pressure constant at the SICP. Allow time for the well to stabilize. Mark and record circulating drillpipe pressure. Measure time lag on drillpipe gauge after choke adjustments. Hold casing pressure constant as pumps are slowed down while choke is closed. Record time and drill type in the Drilling Report 	Company Man / Rig Manager & Rig Crew

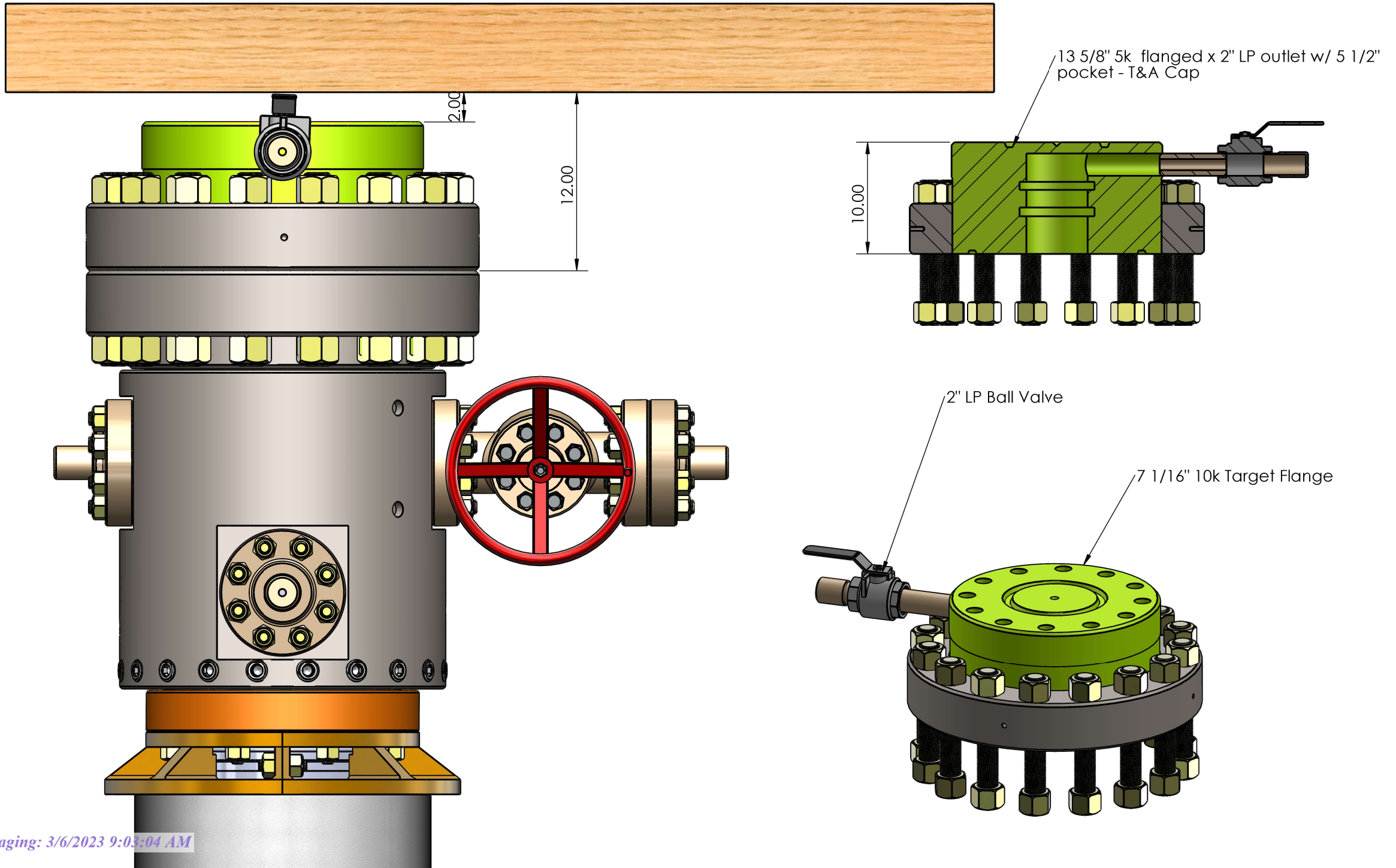


13 5/8" 10k Multi Lock Wellhead System 3 String Slim Hole 10 3/4" x 7 5/8" x 5 1/2"

TITUS
OIL GAS



13 5/8" 5k T&A Cap



District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 184422

CONDITIONS

Operator: Earthstone Operating, LLC 1400 Woodloch Forest; Ste 300 The Woodlands, TX 77380	OGRID: 331165
	Action Number: 184422
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	MUST COMPLY WITH REQUIREMENTS OF THE MOU BETWEEN NM AND TX	3/6/2023