

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

### Location of Well

0. SHL: SWSE / 581 FSL / 1942 FEL / TWSP: 26S / RANGE: 35E / SECTION: 20 / LAT: 32.0231147 / LONG: -103.3871762 ( TVD: 0 feet, MD: 0 feet )

PPP: NWNE / 0 FNL / 1872 FEL / TWSP: 26S / RANGE: 35E / SECTION: 29 / LAT: 32.021515 / LONG: -103.386948 ( TVD: 11900 feet, MD: 11920 feet )

PPP: LOT 2 / 0 FNL / 1869 FEL / TWSP: 26S / RANGE: 35E / SECTION: 32 / LAT: 32.006987 / LONG: -103.386928 ( TVD: 13088 feet, MD: 18146 feet )

BHL: LOT 2 / 10 FSL / 1870 FEL / TWSP: 26S / RANGE: 35E / SECTION: 32 / LAT: 32.0003212 / LONG: -103.386922 ( TVD: 13086 feet, MD: 20601 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: (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

<b>1 API Number</b> 30-025-48139	<b>2 Pool Code</b> 96776	<b>3 Pool Name</b> JABALINA; WOLFCAMP, SOUTHWEST
<b>4 Property Code</b>	<b>5 Property Name</b> EL CAMPEON FED COM	<b>6 Well Number</b> 513H
<b>7 OGRID No.</b> 331165	<b>8 Operator Name</b> EARTHSTONE OPERATING LLC	<b>9 Elevation</b> 3174'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	20	26-S	35-E		581'	SOUTH	1942'	EAST	LEA

<sup>11</sup> 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	2	0'	SOUTH	1870'	EAST	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><b>16 SURFACE HOLE LOCATION (SHL)</b> NEW MEXICO EAST - NAD 83 X=834567.18 LAT.= 32.02311473° N Y=373431.85 LONG.= 103.38717625° W NEW MEXICO EAST - NAD 27 X=793378.85 LAT.= 32.02298817° N Y=373374.66 LONG.= 103.38671646° W 581' FSL, 1942' FEL - SECTION 20</p> <p><b>FIRST TAKE POINT (FTP)</b> NEW MEXICO EAST - NAD 83 X=834645.80 LAT.= 32.02124248° N Y=372751.38 LONG.= 103.38694183° W NEW MEXICO EAST - NAD 27 X=793457.43 LAT.= 32.02111591° N Y=372694.20 LONG.= 103.38648215° W 100' FNL, 1870' FEL - SECTION 29 100' FNL, 551' FEL - LEASE</p> <p><b>STATE LINE CROSSING (SLC)</b> NEW MEXICO EAST - NAD 83 X=834719.15 LAT.= 32.00029382° N Y=365130.51 LONG.= 103.38692049° W NEW MEXICO EAST - NAD 27 X=793530.45 LAT.= 32.00016714° N Y=365073.54 LONG.= -103.38646198° W 0' FSL, 1870' FEL - SECTION 32 0' FSL, 551' FEL - LEASE MD = 21,250'</p> <p><b>LAST TAKE POINT (LTP)</b> TEXAS CENTRAL - NAD 83 X=1349960.97 LAT.= 31.99504793° N Y=10702368.37 LONG.= 103.38691573° W TEXAS CENTRAL - NAD 27 X=1053498.24 LAT.= 31.99492122° N Y=859789.38 LONG.= 103.38645737° W 100' FSL, 3499' FEL - SECTION 25 100' FSL, 551' FEL - LEASE</p> <p><b>BOTTOM HOLE LOCATION (BHL)</b> TEXAS CENTRAL - NAD 83 X=1349958.48 LAT.= 31.99478820° N Y=10702273.91 LONG.= 103.38691539° W TEXAS CENTRAL - NAD 27 X=1053495.75 LAT.= 31.99466149° N Y=859694.92 LONG.= 103.38645704° W 10' FSL, 3528' FEL - SECTION 25 10' FSL, 551' FEL - LEASE</p>	<p><b>17 OPERATOR CERTIFICATION</b> 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> 11/28/2022 Signature Date</p> <p><b>Roger Lowery</b> Printed Name</p> <p><a href="mailto:rlowery@earthstoneenergy.com">rlowery@earthstoneenergy.com</a> E-mail Address</p> <p><b>SURVEYOR CERTIFICATION</b> 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><b>CHARLES L. JURICA</b> 11/28/2022 Date of Survey</p> <p><i>Charles L. Jurica</i> 25490 Signature and Seal of Professional Surveyor</p> <p>Certificate Number</p>
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## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

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

<b>WELL NAME &amp; NO.:</b>	El CampeonFed Com 513H
<b>SURFACE HOLE FOOTAGE:</b>	581'S & 1942'E
<b>BOTTOM HOLE FOOTAGE:</b>	0'S & 1870'E

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** 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 2<sup>nd</sup> 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 513H

## 1. Geologic Formations

TVD of target	13,092' EOL	Pilot hole depth	NA
MD at TD:	22,278'	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	Oil/Gas	
Wolfcamp B	12914	Target Oil/Gas	

## 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	0.80	14.62
9.875"	0	12200	7.625"	29.7	HCL80	BTC	1.16	1.02	2.00
6.75"	0	12000	5.5"	20	P110	BTC	1.81	1.88	3.09
6.75"	12000	22,278	5"	18	P110	BTC	1.81	1.88	3.09
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 &amp; Gas Production, LLC - El Campeon Fed Com 513H

	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 <sup>rd</sup> 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 <sup>nd</sup> 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?	

## Titus Oil &amp; Gas Production, LLC - El Campeon Fed Com 513H

## 3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H <sub>2</sub> O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	250	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl <sub>2</sub>
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl <sub>2</sub>
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:**1<sup>st</sup> 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.

2<sup>nd</sup> 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 <sup>st</sup> Intermediate	0'	50%
Production	12,000'	35% OH in Lateral (KOP to EOL)

## Titus Oil &amp; Gas Production, LLC - El Campeon Fed Com 513H

## 4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
---	---

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 &amp; Gas Production, LLC - El Campeon Fed Com 513H

## 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 513H****7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	8035 psi at 13092' TVD
Abnormal Temperature	NO 185 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 (H<sub>2</sub>S) monitors will be installed prior to drilling out the surface shoe. If H<sub>2</sub>S 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 H<sub>2</sub>S is present

Y H<sub>2</sub>S Plan attached

**8. Other Facets of Operation**

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

x	H <sub>2</sub> 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  
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District III

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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

<b>1 API Number</b> 30-025-48139	<b>2 Pool Code</b> 98234	<b>3 Pool Name</b> WC-025 G-09 S263619C, Wolfcamp
<b>4 Property Code</b>	<b>5 Property Name</b> EL CAMPEON FED COM	<b>6 Well Number</b> 513H
<b>7 OGRID No.</b> 331165	<b>8 Operator Name</b> EARTHSTONE OPERATING LLC	<b>9 Elevation</b> 3174'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	20	26-S	35-E		581'	SOUTH	1942'	EAST	LEA

<sup>11</sup> 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	2	0'	SOUTH	1870'	EAST	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><b>16 SURFACE HOLE LOCATION (SHL)</b> NEW MEXICO EAST - NAD 83 X=834567.18 LAT.= 32.02311473° N Y=373431.85 LONG.= 103.38717625° W NEW MEXICO EAST - NAD 27 X=793378.85 LAT.= 32.02298817° N Y=373374.66 LONG.= 103.38671646° W 581' FSL, 1942' FEL - SECTION 20</p> <p><b>FIRST TAKE POINT (FTP)</b> NEW MEXICO EAST - NAD 83 X=834645.80 LAT.= 32.02124248° N Y=372751.38 LONG.= 103.38694183° W NEW MEXICO EAST - NAD 27 X=793457.43 LAT.= 32.02111591° N Y=372694.20 LONG.= 103.38648215° W 100' FNL, 1870' FEL - SECTION 29 100' FNL, 551' FEL - LEASE</p> <p><b>STATE LINE CROSSING (SLC)</b> NEW MEXICO EAST - NAD 83 X=834719.15 LAT.= 32.00029382° N Y=365130.51 LONG.= 103.38692049° W NEW MEXICO EAST - NAD 27 X=793530.45 LAT.= 32.00016714° N Y=365073.54 LONG.= -103.38646198° W 0' FSL, 1870' FEL - SECTION 32 0' FSL, 551' FEL - LEASE MD = 21,250'</p> <p><b>LAST TAKE POINT (LTP)</b> TEXAS CENTRAL - NAD 83 X=1349960.97 LAT.= 31.99504793° N Y=10702368.37 LONG.= 103.38691573° W TEXAS CENTRAL - NAD 27 X=1053498.24 LAT.= 31.99492122° N Y=859789.38 LONG.= 103.38645737° W 100' FSL, 3499' FEL - SECTION 25 100' FSL, 551' FEL - LEASE</p> <p><b>BOTTOM HOLE LOCATION (BHL)</b> TEXAS CENTRAL - NAD 83 X=1349958.48 LAT.= 31.99478820° N Y=10702273.91 LONG.= 103.38691539° W TEXAS CENTRAL - NAD 27 X=1053495.75 LAT.= 31.99466149° N Y=859694.92 LONG.= 103.38645704° W 10' FSL, 3528' FEL - SECTION 25 10' FSL, 551' FEL - LEASE</p>	<p><b>17 OPERATOR CERTIFICATION</b> 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> 11/28/2022 Signature Date</p> <p><b>Roger Lowery</b> Printed Name</p> <p><a href="mailto:rlowery@earthstoneenergy.com">rlowery@earthstoneenergy.com</a> E-mail Address</p> <p><b>SURVEYOR CERTIFICATION</b> 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><b>CHARLES L. JURICA</b> 11/28/2022 Date of Survey</p> <p><i>Charles L. Jurica</i> Signature and Seal of Professional Surveyor</p> <p>25490 Certificate Number</p>
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## 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"> <li>• Lift Flow Sensor or Pit Float to indicate a kick</li> <li>• Immediately record start time</li> </ul>	Company Representative / Rig Manager
Recognition <ul style="list-style-type: none"> <li>• Driller and/or Crew recognizes indicator</li> <li>• Driller stop drilling, pick up off bottom and spaces out drill string, stop pumps and rotary</li> <li>• Conduct flow check</li> </ul>	Driller
Initiate Action <ul style="list-style-type: none"> <li>• Sound alarm, notify rig crew that the well is flowing</li> </ul>	Company Representative / Rig Manager
Reaction <ul style="list-style-type: none"> <li>• Driller moves BOP remote and stands by</li> <li>• Crew is at their assigned stations</li> <li>• Time is stopped</li> <li>• Record time and drill type in the Drilling Report</li> </ul>	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"> <li>Lift Flow Sensor or Pit Float to indicate a kick</li> <li>Immediately record start time</li> </ul>	Company Representative / Rig Manager
Recognition <ul style="list-style-type: none"> <li>Driller recognizes indicator</li> <li>Suspends tripping operations</li> <li>Conduct Flow Check</li> </ul>	Driller
Initiate Action <ul style="list-style-type: none"> <li>Sound alarm, notify rig crew that the well is flowing</li> </ul>	Company Representative / Rig Manager
Reaction <ul style="list-style-type: none"> <li>Position tool joint above rotary and set slips</li> <li>Stab FOSV and close valve</li> <li>Driller moves to BOP remote and stands by</li> <li>Crew is at their assigned stations</li> <li>Time is stopped</li> <li>Record time and drill type in the Drilling Report</li> </ul>	Driller / Crew

Choke

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





# Titus Oil & Gas Production, LLC

Lea County, NM - (NAD83 NME)

El Campeon Fed Com (NAD83)

El Campeon Fed Com 513H

OH

Plan 1 08-31-22

## Anticollision Report

31 August, 2022





## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

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

<b>Survey Tool Program</b>	<b>Date</b>	8/31/2022		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	22,728.24	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
<b>Offset Well - Wellbore - Design</b>						
Cattleman Fed Com 3						
Cattleman Fed Com 123H - OH / 69915 - Surveys (H&P 6	10,686.36	18,729.39	397.74	263.61	2.965	CC, ES
Cattleman Fed Com 123H - OH / 69915 - Surveys (H&P 6	10,700.00	18,729.33	397.98	263.66	2.963	SF
Cattleman Fed Com 213H - OH / 69914 - Surveys (H&P 6	11,058.00	19,104.98	199.74	63.54	1.467	Level 3, CC, ES, SF
Cattleman Fed Com 4						
Cattleman Fed Com 114H - OH / 69918 - Surveys (H&P 6	10,558.05	18,517.70	891.17	754.83	6.536	CC, ES
Cattleman Fed Com 114H - OH / 69918 - Surveys (H&P 6	10,600.00	18,520.67	892.15	755.60	6.533	SF
Cattleman Fed Com 204H - OH / 69917 - Surveys H&P 6	10,959.23	19,046.55	1,541.91	1,400.05	10.869	CC, ES
Cattleman Fed Com 204H - OH / 69917 - Surveys H&P 6	11,100.00	19,043.68	1,548.32	1,405.33	10.828	SF
Cattleman Fed Com						
403H - OH / 68704 - Surveys (H&P 656)	12,561.96	20,855.83	208.40	62.52	1.429	Level 3, CC, ES, SF
422H - OH / 68635 - Surveys (H&P 625)	12,687.26	20,848.13	1,128.31	982.24	7.724	CC, ES
422H - OH / 68635 - Surveys (H&P 625)	12,750.00	20,867.85	1,129.97	983.59	7.720	SF
432H - OH / 68636 - Surveys (H&P 625)	12,773.14	21,076.79	1,734.52	1,587.75	11.818	CC
432H - OH / 68636 - Surveys (H&P 625)	12,800.00	21,087.14	1,734.67	1,587.68	11.802	ES
432H - OH / 68636 - Surveys (H&P 625)	12,950.00	21,094.00	1,741.56	1,593.52	11.764	SF
433H - OH / 68696 - Surveys (H&P 656)	12,722.75	21,140.87	386.08	239.50	2.634	CC, ES, SF
512H - OH / 68637 - Surveys (H&P 625)	13,009.11	21,477.00	1,456.56	1,306.66	9.716	CC, ES
512H - OH / 68637 - Surveys (H&P 625)	13,100.00	21,477.00	1,459.92	1,309.10	9.680	SF
513H - OH / 68705 - Surveys (H&P 656)	13,026.24	21,474.00	114.22	4.62	1.042	Level 3, CC, ES, SF
Cattleman Fed Com - Deep						
Cattleman Fed Com 404H - OH / 67732 - Surveys (H&P 4	12,526.24	20,900.08	1,508.70	1,364.32	10.449	CC
Cattleman Fed Com 404H - OH / 67732 - Surveys (H&P 4	12,550.00	20,901.58	1,508.88	1,364.26	10.433	ES
Cattleman Fed Com 404H - OH / 67732 - Surveys (H&P 4	12,750.00	20,952.41	1,522.99	1,376.09	10.368	SF
Cattleman Fed Com 434H - OH / 67733 - Surveys (H&P 4	12,696.46	21,022.77	885.51	744.25	6.269	CC
Cattleman Fed Com 434H - OH / 67733 - Surveys (H&P 4	12,700.00	21,023.74	885.52	744.22	6.267	ES
Cattleman Fed Com 434H - OH / 67733 - Surveys (H&P 4	12,750.00	21,039.50	887.01	745.31	6.260	SF
Cattleman Fed Com 514H - OH / 67734 - Surveys (H&P 4	13,004.90	21,341.00	1,368.63	1,228.96	9.799	CC, ES
Cattleman Fed Com 514H - OH / 67734 - Surveys (H&P 4	13,050.00	21,341.00	1,369.54	1,229.67	9.791	SF

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

## Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
El Campeon Fed Com						
214H - OH / 68221 - Surveys (H&P 474)	10,817.40	10,882.65	665.39	611.19	12.277	CC, ES
214H - OH / 68221 - Surveys (H&P 474)	10,900.00	10,929.81	668.71	613.90	12.202	SF
404H - OH / 68222 - Surveys (H&P 474)	12,189.76	12,183.57	1,255.95	1,196.71	21.199	CC
404H - OH / 68222 - Surveys (H&P 474)	12,200.00	12,192.71	1,255.96	1,196.68	21.188	ES
404H - OH / 68222 - Surveys (H&P 474)	20,800.00	20,525.00	1,568.91	1,325.26	6.439	SF
434H - OH / 68223 - Surveys (H&P 474)	8,400.03	8,437.80	703.68	658.89	15.710	CC
434H - OH / 68223 - Surveys (H&P 474)	12,654.81	12,946.34	714.43	653.10	11.650	ES
434H - OH / 68223 - Surveys (H&P 474)	20,702.33	20,912.00	988.60	757.62	4.280	SF
514H - OH / 68224 - Surveys (H&P 474)	12,648.20	12,707.00	1,150.64	1,089.63	18.859	CC
514H - OH / 68224 - Surveys (H&P 474)	20,711.06	20,918.00	1,201.02	953.39	4.850	ES, SF
El Campeon Fed Com (NAD83)						
El Campeon Fed Com 412H - 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 412H - OH - Plan 1 08-31-22	22,728.24	22,562.94	1,813.15	1,515.36	6.089	SF
El Campeon Fed Com 413H - OH - Plan 1 08-31-22	1,416.33	1,417.33	30.09	20.82	3.245	CC
El Campeon Fed Com 413H - OH - Plan 1 08-31-22	1,500.00	1,501.00	30.09	20.52	3.145	ES
El Campeon Fed Com 413H - OH - Plan 1 08-31-22	22,728.24	22,059.36	627.02	382.94	2.569	SF
El Campeon Fed Com 432H - OH - Plan 1 08-31-22	11,616.30	11,625.22	1,097.03	1,059.47	29.207	CC
El Campeon Fed Com 432H - OH - Plan 1 08-31-22	22,728.24	22,401.61	1,152.41	865.39	4.015	ES, SF
El Campeon Fed Com 433H - OH - Plan 1 08-31-22	1,416.33	1,417.33	29.98	20.71	3.233	CC
El Campeon Fed Com 433H - OH - Plan 1 08-31-22	1,500.00	1,501.00	29.98	20.41	3.134	ES
El Campeon Fed Com 433H - OH - Plan 1 08-31-22	22,656.30	22,123.74	399.93	179.46	1.814	SF
El Campeon Fed Com 512H - OH - Plan 1 08-31-22	1,500.00	1,500.00	1,230.23	1,220.67	128.620	CC, ES
El Campeon Fed Com 512H - OH - Plan 1 08-31-22	22,728.24	22,749.91	1,555.24	1,255.53	5.189	SF

## Offset Design: Cattleman Fed Com 3 - Cattleman Fed Com 123H - OH / 69915 - Surveys (H&amp;P 616)

Survey Program: 206-MWD+HRGM													Offset Site Error: 0.00 usft		
Reference				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		
0.00	0.00	54.41	4.41	1.00	1.06	-0.672	7,680.41	-90.05	7,680.94						
100.00	100.00	163.22	113.22	1.08	1.47	-0.674	7,680.28	-90.35	7,680.82	7,678.27	2.55	3,011.687			
200.00	200.00	266.61	216.61	1.60	2.04	-0.678	7,680.06	-90.82	7,680.61	7,676.99	3.62	2,119.662			
300.00	300.00	364.36	314.36	2.01	2.60	-0.680	7,679.85	-91.17	7,680.40	7,675.83	4.58	1,678.379			
400.00	400.00	458.75	408.75	2.35	3.08	-0.683	7,679.70	-91.52	7,680.25	7,674.87	5.38	1,427.623			
500.00	500.00	552.83	502.82	2.65	3.38	-0.686	7,679.63	-91.93	7,680.18	7,674.22	5.95	1,289.825			
600.00	600.00	655.21	605.21	2.93	3.62	-0.690	7,679.58	-92.44	7,680.13	7,673.70	6.43	1,193.532			
633.43	633.43	683.44	633.43	3.01	3.69	-0.691	7,679.56	-92.60	7,680.12	7,673.55	6.57	1,168.920			
700.00	700.00	737.55	687.54	3.18	3.81	-0.693	7,679.60	-92.92	7,680.17	7,673.34	6.84	1,123.540			
800.00	800.00	841.79	791.78	3.41	4.04	-0.698	7,679.76	-93.53	7,680.33	7,673.08	7.25	1,059.060			
900.00	900.00	938.24	888.23	3.64	4.26	-0.702	7,679.88	-94.15	7,680.47	7,672.83	7.64	1,005.752			
1,000.00	1,000.00	1,048.45	998.43	3.85	4.50	-0.707	7,679.98	-94.83	7,680.56	7,672.53	8.03	956.458			
1,100.00	1,100.00	1,151.63	1,101.62	4.05	4.70	-0.712	7,679.93	-95.38	7,680.52	7,672.16	8.37	917.998			
1,200.00	1,200.00	1,271.69	1,221.67	4.24	5.04	-0.715	7,679.75	-95.85	7,680.38	7,671.54	8.84	868.438			
1,300.00	1,300.00	1,407.70	1,357.68	4.43	5.37	-0.720	7,679.06	-96.55	7,679.89	7,670.59	9.29	826.292			
1,400.00	1,400.00	1,474.97	1,424.95	4.61	5.50	-0.722	7,678.74	-96.82	7,679.40	7,669.81	9.58	801.454			
1,500.00	1,500.00	1,567.47	1,517.45	4.78	5.63	-0.723	7,678.51	-96.94	7,679.14	7,669.25	9.89	776.477			
1,506.51	1,506.51	1,573.75	1,523.73	4.79	5.64	-170.710	7,678.50	-96.94	7,679.13	7,669.22	9.91	774.822			
1,600.00	1,599.98	1,677.00	1,626.98	4.98	5.76	-170.707	7,678.14	-96.83	7,680.52	7,670.28	10.24	750.003			
1,620.70	1,620.67	1,702.54	1,652.52	4.99	5.80	-170.705	7,678.02	-96.83	7,681.20	7,670.91	10.29	746.296			

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> Cattleman Fed Com 3 - Cattleman Fed Com 123H - OH / 69915 - Surveys (H&P 616)												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 206-MWD+HRGM												<b>Offset Well Error:</b>	1.00 usft
<b>Reference</b>												<b>Rule Assigned:</b>	
<b>Offset</b>												<b>Warning</b>	
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre +N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
1,700.00	1,699.89	1,772.00	1,721.98	5.07	5.91	-170.709	7,677.81	-96.89	7,684.26	7,673.78	10.49	732.855	
1,800.00	1,799.81	1,864.78	1,814.76	5.23	6.05	-170.714	7,677.64	-96.93	7,688.23	7,677.46	10.77	713.544	
1,900.00	1,899.72	1,963.80	1,913.77	5.41	6.19	-170.720	7,677.45	-97.04	7,692.20	7,681.11	11.09	693.591	
2,000.00	1,999.63	2,057.69	2,007.66	5.60	6.37	-170.726	7,677.32	-97.23	7,696.22	7,684.80	11.42	673.837	
2,100.00	2,099.54	2,173.15	2,123.12	5.80	6.48	-170.730	7,677.02	-96.96	7,700.10	7,688.33	11.77	654.341	
2,200.00	2,199.45	2,253.99	2,203.96	6.02	6.51	-170.730	7,676.89	-96.42	7,704.09	7,692.01	12.07	638.197	
2,300.00	2,299.36	2,338.00	2,287.97	6.24	6.53	-170.730	7,676.84	-95.78	7,708.19	7,695.81	12.38	622.697	
2,400.00	2,399.27	2,409.32	2,359.29	6.47	6.61	-170.733	7,677.00	-95.72	7,712.60	7,699.92	12.68	608.289	
2,500.00	2,499.18	2,432.00	2,381.97	6.72	6.63	-170.736	7,677.14	-95.91	7,717.69	7,704.75	12.94	596.529	
2,600.00	2,599.10	2,471.35	2,421.30	6.96	6.74	-170.743	7,677.72	-96.68	7,723.59	7,710.30	13.29	581.014	
2,700.00	2,699.01	2,526.00	2,475.88	7.22	6.91	-170.763	7,679.55	-98.96	7,730.79	7,717.09	13.70	564.334	
2,800.00	2,798.92	2,526.00	2,475.88	7.48	6.91	-170.763	7,679.55	-98.96	7,738.47	7,724.52	13.95	554.769	
2,900.00	2,898.83	2,526.00	2,475.88	7.74	6.91	-170.763	7,679.55	-98.96	7,747.43	7,733.23	14.20	545.522	
3,000.00	2,998.74	18,759.50	10,679.89	8.01	118.66	95.913	-407.08	-331.02	7,696.58	7,621.37	75.22	102.327	
3,100.00	3,098.65	18,759.11	10,679.91	8.28	118.65	95.970	-406.69	-331.01	7,596.72	7,521.39	75.33	100.848	
3,200.00	3,198.56	18,758.72	10,679.93	8.56	118.65	96.026	-406.30	-331.01	7,496.86	7,421.42	75.44	99.370	
3,300.00	3,298.47	18,758.33	10,679.94	8.84	118.64	96.082	-405.91	-331.01	7,397.00	7,321.44	75.56	97.893	
3,400.00	3,398.39	18,757.93	10,679.96	9.13	118.63	96.138	-405.52	-331.01	7,297.15	7,221.47	75.68	96.417	
3,500.00	3,498.30	18,757.54	10,679.98	9.41	118.63	96.194	-405.13	-331.01	7,197.30	7,121.50	75.81	94.943	
3,600.00	3,598.21	18,757.15	10,680.00	9.70	118.62	96.250	-404.74	-331.01	7,097.46	7,021.53	75.93	93.471	
3,700.00	3,698.12	18,756.76	10,680.02	9.99	118.62	96.307	-404.35	-331.00	6,997.62	6,921.56	76.06	92.000	
3,800.00	3,798.03	18,756.37	10,680.03	10.29	118.61	96.363	-403.95	-331.00	6,897.78	6,821.59	76.19	90.532	
3,900.00	3,897.94	18,755.98	10,680.05	10.58	118.61	96.419	-403.56	-331.00	6,797.95	6,721.63	76.33	89.065	
4,000.00	3,997.85	18,755.58	10,680.07	10.88	118.60	96.475	-403.17	-331.00	6,698.13	6,621.67	76.46	87.601	
4,100.00	4,097.76	18,755.19	10,680.09	11.18	118.60	96.531	-402.78	-331.00	6,598.31	6,521.71	76.60	86.139	
4,200.00	4,197.68	18,754.80	10,680.10	11.48	118.59	96.587	-402.39	-331.00	6,498.49	6,421.75	76.74	84.679	
4,300.00	4,297.59	18,754.41	10,680.12	11.78	118.58	96.644	-402.00	-330.99	6,398.68	6,321.80	76.89	83.222	
4,400.00	4,397.50	18,754.02	10,680.14	12.08	118.58	96.700	-401.61	-330.99	6,298.88	6,221.85	77.03	81.768	
4,500.00	4,497.41	18,753.62	10,680.16	12.39	118.57	96.756	-401.21	-330.99	6,199.08	6,121.90	77.18	80.317	
4,600.00	4,597.32	18,753.23	10,680.18	12.69	118.57	96.812	-400.82	-330.99	6,099.29	6,021.96	77.34	78.868	
4,700.00	4,697.23	18,752.84	10,680.19	13.00	118.56	96.869	-400.43	-330.99	5,999.51	5,922.02	77.49	77.423	
4,800.00	4,797.14	18,752.45	10,680.21	13.31	118.56	96.925	-400.04	-330.99	5,899.74	5,822.09	77.65	75.981	
4,900.00	4,897.05	18,752.06	10,680.23	13.62	118.55	96.981	-399.65	-330.98	5,799.97	5,722.16	77.81	74.542	
5,000.00	4,996.97	18,751.67	10,680.25	13.92	118.55	97.037	-399.26	-330.98	5,700.21	5,622.24	77.97	73.107	
5,100.00	5,096.88	18,751.27	10,680.26	14.23	118.54	97.094	-398.87	-330.98	5,600.46	5,522.32	78.14	71.675	
5,200.00	5,196.79	18,750.88	10,680.28	14.55	118.53	97.150	-398.47	-330.98	5,500.72	5,422.41	78.30	70.248	
5,300.00	5,296.70	18,750.49	10,680.30	14.86	118.53	97.206	-398.08	-330.98	5,400.98	5,322.51	78.48	68.823	
5,400.00	5,396.61	18,750.10	10,680.32	15.17	118.52	97.262	-397.69	-330.98	5,301.26	5,222.61	78.65	67.403	
5,500.00	5,496.52	18,749.71	10,680.34	15.48	118.52	97.319	-397.30	-330.98	5,201.55	5,122.72	78.83	65.987	
5,600.00	5,596.43	18,749.31	10,680.35	15.79	118.51	97.375	-396.91	-330.97	5,101.85	5,022.84	79.01	64.575	
5,700.00	5,696.34	18,748.92	10,680.37	16.11	118.51	97.431	-396.52	-330.97	5,002.16	4,922.97	79.19	63.167	
5,800.00	5,796.26	18,748.53	10,680.39	16.42	118.50	97.488	-396.13	-330.97	4,902.48	4,823.11	79.38	61.763	
5,900.00	5,896.17	18,748.14	10,680.41	16.74	118.50	97.544	-395.73	-330.97	4,802.82	4,723.26	79.56	60.364	
6,000.00	5,996.08	18,747.75	10,680.42	17.05	118.49	97.600	-395.34	-330.97	4,703.17	4,623.42	79.76	58.969	
6,100.00	6,095.99	18,747.36	10,680.44	17.37	118.49	97.657	-394.95	-330.97	4,603.54	4,523.59	79.95	57.579	
6,200.00	6,195.90	18,746.96	10,680.46	17.68	118.48	97.713	-394.56	-330.96	4,503.92	4,423.77	80.15	56.194	
6,300.00	6,295.81	18,746.57	10,680.48	18.00	118.47	97.769	-394.17	-330.96	4,404.32	4,323.97	80.35	54.813	
6,400.00	6,395.72	18,746.18	10,680.50	18.32	118.47	97.826	-393.78	-330.96	4,304.74	4,224.18	80.56	53.438	
6,500.00	6,495.63	18,745.79	10,680.51	18.63	118.46	97.882	-393.39	-330.96	4,205.18	4,124.41	80.76	52.067	
6,600.00	6,595.55	18,745.40	10,680.53	18.95	118.46	97.938	-392.99	-330.96	4,105.64	4,024.66	80.98	50.702	
6,700.00	6,695.46	18,745.00	10,680.55	19.27	118.45	97.995	-392.60	-330.96	4,006.12	3,924.93	81.19	49.341	
6,800.00	6,795.37	18,744.61	10,680.57	19.59	118.45	98.051	-392.21	-330.95	3,906.63	3,825.22	81.41	47.986	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> Cattleman Fed Com 3 - Cattleman Fed Com 123H - OH / 69915 - Surveys (H&P 616)												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 206-MWD+HRGM												<b>Offset Well Error:</b>	1.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
6,900.00	6,895.28	18,744.22	10,680.58	19.91	118.44	98.107	-391.82	-330.95	3,807.16	3,725.53	81.63	46.637	
7,000.00	6,995.19	18,743.83	10,680.60	20.23	118.44	98.164	-391.43	-330.95	3,707.73	3,625.86	81.86	45.293	
7,100.00	7,095.10	18,743.44	10,680.62	20.54	118.43	98.220	-391.04	-330.95	3,608.32	3,526.23	82.09	43.954	
7,200.00	7,195.01	18,743.05	10,680.64	20.86	118.42	98.276	-390.65	-330.95	3,508.95	3,426.62	82.33	42.621	
7,300.00	7,294.92	18,742.65	10,680.66	21.18	118.42	98.333	-390.25	-330.95	3,409.61	3,327.04	82.57	41.294	
7,400.00	7,394.84	18,742.26	10,680.67	21.50	118.41	98.389	-389.86	-330.94	3,310.32	3,227.50	82.82	39.972	
7,500.00	7,494.75	18,741.87	10,680.69	21.82	118.41	98.446	-389.47	-330.94	3,211.06	3,128.00	83.07	38.656	
7,600.00	7,594.66	18,741.48	10,680.71	22.14	118.40	98.502	-389.08	-330.94	3,111.86	3,028.54	83.32	37.347	
7,700.00	7,694.57	18,741.09	10,680.73	22.46	118.40	98.558	-388.69	-330.94	3,012.71	2,929.12	83.59	36.043	
7,800.00	7,794.48	18,740.70	10,680.74	22.78	118.39	98.615	-388.30	-330.94	2,913.61	2,829.76	83.86	34.745	
7,900.00	7,894.39	18,740.30	10,680.76	23.10	118.39	98.671	-387.91	-330.94	2,814.58	2,730.45	84.13	33.453	
8,000.00	7,994.30	18,739.91	10,680.78	23.42	118.38	98.728	-387.52	-330.93	2,715.62	2,631.20	84.42	32.168	
8,100.00	8,094.21	18,739.52	10,680.80	23.75	118.37	98.784	-387.12	-330.93	2,616.74	2,532.03	84.72	30.888	
8,200.00	8,194.13	18,739.13	10,680.82	24.07	118.37	98.840	-386.73	-330.93	2,517.95	2,432.93	85.02	29.615	
8,300.00	8,294.04	18,738.74	10,680.83	24.39	118.36	98.897	-386.34	-330.93	2,419.26	2,333.92	85.34	28.349	
8,400.00	8,393.95	18,738.34	10,680.85	24.71	118.36	98.953	-385.95	-330.93	2,320.68	2,235.01	85.67	27.088	
8,500.00	8,493.86	18,737.95	10,680.87	25.03	118.35	99.010	-385.56	-330.93	2,222.23	2,136.21	86.02	25.834	
8,600.00	8,593.77	18,737.56	10,680.89	25.35	118.35	99.066	-385.17	-330.92	2,123.92	2,037.53	86.38	24.587	
8,700.00	8,693.68	18,737.17	10,680.90	25.67	118.34	99.122	-384.78	-330.92	2,025.77	1,939.00	86.77	23.346	
8,800.00	8,793.59	18,736.78	10,680.92	26.00	118.34	99.179	-384.38	-330.92	1,927.82	1,840.64	87.18	22.112	
8,900.00	8,893.50	18,736.39	10,680.94	26.32	118.33	99.235	-383.99	-330.92	1,830.09	1,742.46	87.63	20.884	
9,000.00	8,993.42	18,735.99	10,680.96	26.64	118.32	99.292	-383.60	-330.92	1,732.62	1,644.50	88.11	19.664	
9,100.00	9,093.33	18,735.60	10,680.98	26.96	118.32	99.348	-383.21	-330.92	1,635.45	1,546.81	88.64	18.450	
9,200.00	9,193.24	18,735.21	10,680.99	27.29	118.31	99.405	-382.82	-330.91	1,538.65	1,449.41	89.23	17.243	
9,300.00	9,293.15	18,734.82	10,681.01	27.61	118.31	99.461	-382.43	-330.91	1,442.28	1,352.38	89.90	16.044	
9,400.00	9,393.06	18,734.43	10,681.03	27.93	118.30	99.517	-382.04	-330.91	1,346.44	1,255.78	90.66	14.852	
9,500.00	9,492.97	18,734.03	10,681.05	28.25	118.30	99.574	-381.64	-330.91	1,251.25	1,159.71	91.54	13.669	
9,600.00	9,592.88	18,733.64	10,681.06	28.58	118.29	99.630	-381.25	-330.91	1,156.87	1,064.29	92.58	12.496	
9,700.00	9,692.79	18,733.25	10,681.08	28.90	118.29	99.687	-380.86	-330.91	1,063.53	969.68	93.84	11.333	
9,800.00	9,792.71	18,732.86	10,681.10	29.22	118.28	99.743	-380.47	-330.90	971.50	876.12	95.39	10.185	
9,900.00	9,892.62	18,732.47	10,681.12	29.55	118.28	99.800	-380.08	-330.90	881.22	783.90	97.32	9.055	
10,000.00	9,992.53	18,732.08	10,681.14	29.87	118.27	99.856	-379.69	-330.90	793.27	693.49	99.78	7.950	
10,100.00	10,092.44	18,731.68	10,681.15	30.19	118.26	99.912	-379.30	-330.90	708.53	605.58	102.95	6.882	
10,200.00	10,192.35	18,731.29	10,681.17	30.52	118.26	99.969	-378.90	-330.90	628.28	521.25	107.04	5.870	
10,300.00	10,292.26	18,730.90	10,681.19	30.84	118.25	100.025	-378.51	-330.90	554.50	442.27	112.23	4.941	
10,400.00	10,392.17	18,730.51	10,681.21	31.16	118.25	100.082	-378.12	-330.89	490.10	371.57	118.53	4.135	
10,500.00	10,492.08	18,730.12	10,681.22	31.49	118.24	100.138	-377.73	-330.89	439.24	313.87	125.37	3.504	
10,600.00	10,592.00	18,729.72	10,681.24	31.81	118.24	100.195	-377.34	-330.89	407.01	275.73	131.28	3.100	
10,686.36	10,678.27	18,729.39	10,681.26	32.09	118.23	100.243	-377.00	-330.89	397.74	263.61	134.13	2.965 CC, ES	
10,700.00	10,691.91	18,729.33	10,681.26	32.13	118.23	100.251	-376.95	-330.89	397.98	263.66	134.32	2.963 SF	
10,800.00	10,791.82	18,728.94	10,681.28	32.46	118.23	100.307	-376.56	-330.89	413.66	280.15	133.51	3.098	
10,900.00	10,891.73	18,728.55	10,681.30	32.78	118.22	100.364	-376.16	-330.89	451.49	321.71	129.78	3.479	
11,000.00	10,991.64	18,728.16	10,681.31	33.11	118.21	100.420	-375.77	-330.88	506.53	381.63	124.89	4.056	
11,100.00	11,091.55	18,727.77	10,681.33	33.43	118.21	100.477	-375.38	-330.88	573.84	453.68	120.16	4.776	
11,200.00	11,191.46	18,727.37	10,681.35	33.75	118.20	100.533	-374.99	-330.88	649.63	533.50	116.13	5.594	
11,300.00	11,291.37	18,726.98	10,681.37	34.08	118.20	100.590	-374.60	-330.88	731.27	618.36	112.91	6.477	
11,400.00	11,391.29	18,726.59	10,681.38	34.40	118.19	100.646	-374.21	-330.88	816.99	706.60	110.39	7.401	
11,500.00	11,491.20	18,726.20	10,681.40	34.73	118.19	100.703	-373.82	-330.88	905.65	797.19	108.46	8.350	
11,600.00	11,591.11	18,725.81	10,681.42	35.05	118.18	100.759	-373.42	-330.87	996.46	889.47	106.98	9.314	
11,700.00	11,691.02	18,725.41	10,681.44	35.38	118.18	100.815	-373.03	-330.87	1,088.88	983.01	105.86	10.286	
11,800.00	11,790.93	18,725.02	10,681.46	35.70	118.17	100.872	-372.64	-330.87	1,182.53	1,077.52	105.01	11.261	
11,900.00	11,890.84	18,724.63	10,681.47	36.03	118.16	100.928	-372.25	-330.87	1,277.15	1,172.76	104.38	12.235	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> Cattleman Fed Com 3 - Cattleman Fed Com 123H - OH / 69915 - Surveys (H&P 616)												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 206-MWD+HRGM												<b>Offset Well Error:</b>	1.00 usft
<b>Reference</b>												<b>Rule Assigned:</b>	
<b>Offset</b>												<b>Warning</b>	
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
							<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
11,907.54	11,898.38	18,724.60	10,681.47	36.05	118.16	100.933	-372.22	-330.87	1,284.31	1,179.97	104.34	12.309	
12,000.00	11,990.80	18,723.00	10,681.55	36.33	118.14	106.806	-370.62	-330.86	1,372.43	1,268.53	103.90	13.209	
12,028.24	12,019.04	18,723.00	10,681.55	36.36	118.14	-81.469	-370.62	-330.86	1,399.41	1,295.62	103.79	13.484	
12,100.00	12,090.80	18,723.00	10,681.55	36.36	118.14	-81.469	-370.62	-330.86	1,468.14	1,364.60	103.54	14.179	
12,200.00	12,190.80	18,715.04	10,681.91	36.36	118.03	-80.377	-362.67	-330.83	1,564.36	1,461.11	103.25	15.151	
12,300.00	12,290.80	18,711.19	10,682.08	36.36	117.98	-79.851	-358.82	-330.82	1,661.02	1,557.94	103.08	16.114	
12,400.00	12,390.80	18,707.39	10,682.25	36.37	117.92	-79.333	-355.03	-330.81	1,758.04	1,655.06	102.98	17.072	
12,500.00	12,490.80	18,703.64	10,682.41	36.37	117.87	-78.825	-351.28	-330.80	1,855.37	1,752.43	102.95	18.023	
12,528.24	12,519.04	18,702.59	10,682.46	36.37	117.85	-78.683	-350.23	-330.79	1,882.91	1,779.96	102.95	18.290	
12,550.00	12,540.79	18,702.13	10,682.48	36.40	117.85	92.203	-349.77	-330.79	1,904.15	1,801.20	102.95	18.496	
12,600.00	12,590.61	18,703.73	10,682.41	36.63	117.87	69.692	-351.37	-330.80	1,952.98	1,849.99	102.99	18.962	
12,650.00	12,639.89	18,708.98	10,682.18	36.95	117.94	51.508	-356.61	-330.81	2,001.54	1,898.46	103.08	19.418	
12,700.00	12,688.24	18,723.00	10,681.55	37.29	118.14	38.771	-370.62	-330.86	2,049.45	1,946.22	103.23	19.853	
12,750.00	12,735.30	18,731.47	10,681.16	37.62	118.26	30.738	-379.08	-330.90	2,096.33	1,992.96	103.37	20.280	
12,800.00	12,780.72	18,750.25	10,680.31	37.96	118.53	25.077	-397.85	-330.98	2,141.84	2,038.25	103.58	20.677	
12,850.00	12,824.15	18,773.00	10,679.28	38.29	118.85	21.104	-420.57	-331.07	2,185.61	2,081.77	103.84	21.047	
12,900.00	12,865.26	18,799.54	10,678.07	38.60	119.22	18.221	-447.08	-331.18	2,227.30	2,123.16	104.14	21.388	
12,950.00	12,903.73	18,829.67	10,676.71	38.90	119.65	16.071	-477.18	-331.31	2,266.60	2,162.12	104.47	21.696	
13,000.00	12,939.27	18,863.17	10,675.19	39.18	120.12	14.433	-510.64	-331.45	2,303.18	2,198.34	104.84	21.969	
13,050.00	12,971.62	18,899.76	10,673.53	39.43	120.63	13.168	-547.20	-331.60	2,336.78	2,231.54	105.24	22.204	
13,100.00	13,000.52	18,912.00	10,672.97	39.65	120.81	12.271	-559.43	-331.65	2,367.28	2,261.81	105.47	22.445	
13,150.00	13,025.76	18,912.00	10,672.97	39.85	120.81	11.583	-559.43	-331.65	2,394.99	2,289.39	105.60	22.679	
13,200.00	13,047.14	18,912.00	10,672.97	40.02	120.81	11.022	-559.43	-331.65	2,419.81	2,314.10	105.71	22.890	
13,250.00	13,064.50	18,912.00	10,672.97	40.15	120.81	10.567	-559.43	-331.65	2,441.66	2,335.85	105.80	23.077	
13,300.00	13,077.71	18,912.00	10,672.97	40.26	120.81	10.202	-559.43	-331.65	2,460.44	2,354.57	105.87	23.240	
13,350.00	13,086.67	18,912.00	10,672.97	40.33	120.81	9.914	-559.43	-331.65	2,476.09	2,370.18	105.92	23.378	
13,400.00	13,091.30	18,912.00	10,672.97	40.38	120.81	9.695	-559.43	-331.65	2,488.54	2,382.61	105.93	23.492	
13,428.24	13,092.00	18,912.00	10,672.97	40.39	120.81	9.599	-559.43	-331.65	2,494.15	2,388.27	105.88	23.556	
13,500.00	13,092.00	18,912.00	10,672.97	40.40	120.81	9.599	-559.43	-331.65	2,508.07	2,402.38	105.69	23.730	
13,600.00	13,092.00	18,912.00	10,672.97	40.43	120.81	9.599	-559.43	-331.65	2,530.73	2,425.41	105.31	24.030	
13,700.00	13,092.00	18,912.00	10,672.97	40.46	120.81	9.599	-559.43	-331.65	2,557.10	2,452.24	104.86	24.386	
13,800.00	13,092.00	18,912.00	10,672.97	40.50	120.81	9.599	-559.43	-331.65	2,587.07	2,482.74	104.33	24.797	
13,900.00	13,092.00	18,912.00	10,672.97	40.53	120.81	9.599	-559.43	-331.65	2,620.52	2,516.78	103.74	25.261	
14,000.00	13,092.00	18,912.00	10,672.97	40.58	120.81	9.599	-559.43	-331.65	2,657.31	2,554.22	103.09	25.777	
14,100.00	13,092.00	18,912.00	10,672.97	40.63	120.81	9.599	-559.43	-331.65	2,697.31	2,594.92	102.39	26.344	
14,200.00	13,092.00	18,912.00	10,672.97	40.69	120.81	9.599	-559.43	-331.65	2,740.38	2,638.73	101.65	26.959	
14,300.00	13,092.00	18,912.00	10,672.97	40.76	120.81	9.599	-559.43	-331.65	2,786.37	2,685.49	100.88	27.622	
14,400.00	13,092.00	18,912.00	10,672.97	40.85	120.81	9.599	-559.43	-331.65	2,835.14	2,735.07	100.08	28.330	
14,500.00	13,092.00	18,912.00	10,672.97	40.95	120.81	9.599	-559.43	-331.65	2,886.56	2,787.30	99.26	29.081	
14,600.00	13,092.00	18,912.00	10,672.97	41.10	120.81	9.599	-559.43	-331.65	2,940.48	2,842.05	98.43	29.875	
14,700.00	13,092.00	18,912.00	10,672.97	41.29	120.81	9.599	-559.43	-331.65	2,996.76	2,899.17	97.59	30.708	
14,800.00	13,092.00	18,912.00	10,672.97	41.57	120.81	9.599	-559.43	-331.65	3,055.28	2,958.54	96.75	31.580	
14,900.00	13,092.00	18,912.00	10,672.97	41.99	120.81	9.599	-559.43	-331.65	3,115.92	3,020.01	95.91	32.488	
15,000.00	13,092.00	18,912.00	10,672.97	42.60	120.81	9.599	-559.43	-331.65	3,178.54	3,083.47	95.08	33.431	
15,100.00	13,092.00	18,912.00	10,672.97	43.42	120.81	9.599	-559.43	-331.65	3,243.04	3,148.79	94.25	34.408	
15,200.00	13,092.00	18,912.00	10,672.97	44.43	120.81	9.599	-559.43	-331.65	3,309.30	3,215.86	93.44	35.416	
15,300.00	13,092.00	18,912.00	10,672.97	45.56	120.81	9.599	-559.43	-331.65	3,377.23	3,284.58	92.64	36.454	
15,400.00	13,092.00	18,912.00	10,672.97	46.76	120.81	9.599	-559.43	-331.65	3,446.72	3,354.85	91.86	37.520	
15,500.00	13,092.00	18,912.00	10,672.97	48.01	120.81	9.599	-559.43	-331.65	3,517.68	3,426.57	91.10	38.613	
15,600.00	13,092.00	18,912.00	10,672.97	49.30	120.81	9.599	-559.43	-331.65	3,590.02	3,499.66	90.36	39.731	
15,700.00	13,092.00	18,912.00	10,672.97	50.61	120.81	9.599	-559.43	-331.65	3,663.66	3,574.03	89.63	40.874	
15,800.00	13,092.00	18,912.00	10,672.97	51.93	120.81	9.599	-559.43	-331.65	3,738.53	3,649.60	88.93	42.039	

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





## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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	
15,900.00	13,092.00	18,912.00	10,672.97	53.27	120.81	9.599	-559.43	-331.65	3,814.55	3,726.30	88.25	43.225		
16,000.00	13,092.00	18,912.00	10,672.97	54.61	120.81	9.599	-559.43	-331.65	3,891.65	3,804.06	87.59	44.431		
16,100.00	13,092.00	18,912.00	10,672.97	55.97	120.81	9.599	-559.43	-331.65	3,969.78	3,882.83	86.95	45.656		
16,200.00	13,092.00	18,912.00	10,672.97	57.33	120.81	9.599	-559.43	-331.65	4,048.87	3,962.53	86.33	46.899		
16,300.00	13,092.00	18,912.00	10,672.97	58.69	120.81	9.599	-559.43	-331.65	4,128.86	4,043.13	85.74	48.157		
16,400.00	13,092.00	18,912.00	10,672.97	60.06	120.81	9.599	-559.43	-331.65	4,209.71	4,124.55	85.16	49.432		
16,500.00	13,092.00	18,912.00	10,672.97	61.44	120.81	9.599	-559.43	-331.65	4,291.37	4,206.76	84.61	50.720		
16,600.00	13,092.00	18,912.00	10,672.97	62.81	120.81	9.599	-559.43	-331.65	4,373.79	4,289.71	84.08	52.022		
16,700.00	13,092.00	18,912.00	10,672.97	64.20	120.81	9.599	-559.43	-331.65	4,456.93	4,373.37	83.56	53.335		
16,800.00	13,092.00	18,912.00	10,672.97	65.58	120.81	9.599	-559.43	-331.65	4,540.75	4,457.68	83.07	54.661		
16,900.00	13,092.00	18,912.00	10,672.97	66.97	120.81	9.599	-559.43	-331.65	4,625.21	4,542.62	82.60	55.997		
17,000.00	13,092.00	18,912.00	10,672.97	68.36	120.81	9.599	-559.43	-331.65	4,710.28	4,628.14	82.14	57.342		
17,100.00	13,092.00	18,912.00	10,672.97	69.75	120.81	9.599	-559.43	-331.65	4,795.93	4,714.22	81.71	58.696		
17,200.00	13,092.00	18,912.00	10,672.97	71.14	120.81	9.599	-559.43	-331.65	4,882.13	4,800.84	81.29	60.058		
17,300.00	13,092.00	18,912.00	10,672.97	72.54	120.81	9.599	-559.43	-331.65	4,968.84	4,887.95	80.89	61.428		
17,400.00	13,092.00	18,912.00	10,672.97	73.94	120.81	9.599	-559.43	-331.65	5,056.04	4,975.53	80.50	62.804		
17,500.00	13,092.00	18,912.00	10,672.97	75.34	120.81	9.599	-559.43	-331.65	5,143.70	5,063.57	80.14	64.187		
17,600.00	13,092.00	18,912.00	10,672.97	76.74	120.81	9.599	-559.43	-331.65	5,231.81	5,152.03	79.78	65.574		
17,700.00	13,092.00	18,912.00	10,672.97	78.14	120.81	9.599	-559.43	-331.65	5,320.34	5,240.90	79.45	66.967		
17,800.00	13,092.00	18,912.00	10,672.97	79.55	120.81	9.599	-559.43	-331.65	5,409.27	5,330.15	79.13	68.363		
17,900.00	13,092.00	18,912.00	10,672.97	80.95	120.81	9.599	-559.43	-331.65	5,498.58	5,419.77	78.82	69.763		
18,000.00	13,092.00	18,912.00	10,672.97	82.36	120.81	9.599	-559.43	-331.65	5,588.26	5,509.73	78.52	71.166		
18,100.00	13,092.00	18,912.00	10,672.97	83.76	120.81	9.599	-559.43	-331.65	5,678.27	5,600.03	78.24	72.572		
18,200.00	13,092.00	18,912.00	10,672.97	85.17	120.81	9.599	-559.43	-331.65	5,768.62	5,690.64	77.98	73.980		
18,300.00	13,092.00	18,912.00	10,672.97	86.58	120.81	9.599	-559.43	-331.65	5,859.28	5,781.56	77.72	75.389		
18,400.00	13,092.00	18,912.00	10,672.97	87.99	120.81	9.599	-559.43	-331.65	5,950.24	5,872.76	77.48	76.799		
18,500.00	13,092.00	18,912.00	10,672.97	89.40	120.81	9.599	-559.43	-331.65	6,041.48	5,964.24	77.25	78.211		
18,600.00	13,092.00	18,912.00	10,672.97	90.81	120.81	9.599	-559.43	-331.65	6,133.00	6,055.97	77.03	79.623		
18,700.00	13,092.00	18,912.00	10,672.97	92.23	120.81	9.599	-559.43	-331.65	6,224.78	6,147.96	76.82	81.034		
18,800.00	13,092.00	18,912.00	10,672.97	93.64	120.81	9.599	-559.43	-331.65	6,316.81	6,240.19	76.62	82.446		
18,900.00	13,092.00	18,912.00	10,672.97	95.06	120.81	9.599	-559.43	-331.65	6,409.08	6,332.65	76.43	83.856		
19,000.00	13,092.00	18,912.00	10,672.97	96.47	120.81	9.599	-559.43	-331.65	6,501.57	6,425.32	76.25	85.266		
19,100.00	13,092.00	18,912.00	10,672.97	97.89	120.81	9.599	-559.43	-331.65	6,594.29	6,518.21	76.08	86.674		
19,200.00	13,092.00	18,912.00	10,672.97	99.30	120.81	9.599	-559.43	-331.65	6,687.21	6,611.29	75.92	88.081		
19,300.00	13,092.00	18,912.00	10,672.97	100.72	120.81	9.599	-559.43	-331.65	6,780.34	6,704.57	75.77	89.486		
19,400.00	13,092.00	18,912.00	10,672.97	102.14	120.81	9.599	-559.43	-331.65	6,873.66	6,798.03	75.63	90.889		
19,500.00	13,092.00	18,912.00	10,672.97	103.55	120.81	9.599	-559.43	-331.65	6,967.16	6,891.67	75.49	92.289		
19,600.00	13,092.00	18,912.00	10,672.97	104.97	120.81	9.599	-559.43	-331.65	7,060.84	6,985.48	75.37	93.686		
19,700.00	13,092.00	18,912.00	10,672.97	106.39	120.81	9.599	-559.43	-331.65	7,154.70	7,079.45	75.25	95.081		
19,800.00	13,092.00	18,912.00	10,672.97	107.81	120.81	9.599	-559.43	-331.65	7,248.72	7,173.58	75.14	96.473		
19,900.00	13,092.00	18,912.00	10,672.97	109.23	120.81	9.599	-559.43	-331.65	7,342.89	7,267.86	75.03	97.861		
20,000.00	13,092.00	18,912.00	10,672.97	110.65	120.81	9.599	-559.43	-331.65	7,437.22	7,362.28	74.94	99.246		
20,100.00	13,092.00	18,912.00	10,672.97	112.07	120.81	9.599	-559.43	-331.65	7,531.70	7,456.85	74.85	100.627		
20,200.00	13,092.00	18,912.00	10,672.97	113.49	120.81	9.599	-559.43	-331.65	7,626.31	7,551.55	74.76	102.005		
20,300.00	13,092.00	18,912.00	10,672.97	114.91	120.81	9.599	-559.43	-331.65	7,721.06	7,646.37	74.69	103.378		
20,400.00	13,092.00	18,912.00	10,672.97	116.34	120.81	9.599	-559.43	-331.65	7,815.94	7,741.33	74.62	104.747		
20,500.00	13,092.00	18,912.00	10,672.97	117.76	120.81	9.599	-559.43	-331.65	7,910.95	7,836.40	74.55	106.112		
20,600.00	13,092.00	18,912.00	10,672.97	119.18	120.81	9.599	-559.43	-331.65	8,006.08	7,931.59	74.49	107.472		
20,700.00	13,092.00	18,912.00	10,672.97	120.60	120.81	9.599	-559.43	-331.65	8,101.33	8,026.89	74.44	108.828		
20,800.00	13,092.00	18,912.00	10,672.97	122.03	120.81	9.599	-559.43	-331.65	8,196.69	8,122.29	74.39	110.179		
20,900.00	13,092.00	18,912.00	10,672.97	123.45	120.81	9.599	-559.43	-331.65	8,292.16	8,217.81	74.35	111.525		
21,000.00	13,092.00	18,912.00	10,672.97	124.87	120.81	9.599	-559.43	-331.65	8,387.73	8,313.42	74.32	112.866		

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





## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> Cattleman Fed Com 3 - Cattleman Fed Com 123H - OH / 69915 - Surveys (H&P 616)													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 206-MWD+HRGM													<b>Offset Well Error:</b> 1.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
21,100.00	13,092.00	18,912.00	10,672.97	126.30	120.81	9.599	-559.43	-331.65	8,483.41	8,409.13	74.28	114.203	
21,200.00	13,092.00	18,912.00	10,672.97	127.72	120.81	9.599	-559.43	-331.65	8,579.19	8,504.93	74.26	115.534	
21,300.00	13,092.00	18,912.00	10,672.97	129.15	120.81	9.599	-559.43	-331.65	8,675.06	8,600.82	74.24	116.859	
21,400.00	13,092.00	18,912.00	10,672.97	130.57	120.81	9.599	-559.43	-331.65	8,771.02	8,696.80	74.22	118.180	
21,500.00	13,092.00	18,912.00	10,672.97	132.00	120.81	9.599	-559.43	-331.65	8,867.07	8,792.87	74.20	119.495	
21,600.00	13,092.00	18,912.00	10,672.97	133.42	120.81	9.599	-559.43	-331.65	8,963.21	8,889.02	74.20	120.804	
21,700.00	13,092.00	18,912.00	10,672.97	134.85	120.81	9.599	-559.43	-331.65	9,059.43	8,985.24	74.19	122.108	
21,800.00	13,092.00	18,912.00	10,672.97	136.27	120.81	9.599	-559.43	-331.65	9,155.74	9,081.55	74.19	123.406	
21,900.00	13,092.00	18,912.00	10,672.97	137.70	120.81	9.599	-559.43	-331.65	9,252.12	9,177.92	74.20	124.699	
22,000.00	13,092.00	18,912.00	10,672.97	139.12	120.81	9.599	-559.43	-331.65	9,348.58	9,274.37	74.20	125.985	
22,100.00	13,092.00	18,912.00	10,672.97	140.55	120.81	9.599	-559.43	-331.65	9,445.11	9,370.89	74.22	127.266	
22,200.00	13,092.00	18,912.00	10,672.97	141.98	120.81	9.599	-559.43	-331.65	9,541.71	9,467.48	74.23	128.541	
22,300.00	13,092.00	18,912.00	10,672.97	143.40	120.81	9.599	-559.43	-331.65	9,638.38	9,564.13	74.25	129.811	
22,400.00	13,092.00	18,912.00	10,672.97	144.83	120.81	9.599	-559.43	-331.65	9,735.12	9,660.85	74.27	131.074	
22,500.00	13,092.00	18,912.00	10,672.97	146.26	120.81	9.599	-559.43	-331.65	9,831.93	9,757.63	74.30	132.331	
22,600.00	13,092.00	18,912.00	10,672.97	147.69	120.81	9.599	-559.43	-331.65	9,928.80	9,854.47	74.33	133.582	
22,700.00	13,092.00	18,912.00	10,672.97	149.11	120.81	9.599	-559.43	-331.65	10,025.73	9,951.37	74.36	134.827	
22,728.24	13,092.00	18,912.00	10,672.97	149.52	120.81	9.599	-559.43	-331.65	10,053.11	9,978.74	74.37	135.177	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> Cattleman Fed Com 3 - Cattleman Fed Com 213H - OH / 69914 - Surveys (H&P 616)													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 177-MWD+HRGM													<b>Offset Well Error:</b> 1.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
0.00	0.00	52.31	2.31	1.00	1.05	-0.447	7,680.55	-59.90	7,680.79				
100.00	100.00	156.92	106.92	1.08	1.37	-0.443	7,680.50	-59.38	7,680.73	7,678.28	2.45	3,139.625	
200.00	200.00	255.84	205.83	1.60	1.93	-0.437	7,680.41	-58.61	7,680.64	7,677.14	3.50	2,195.270	
300.00	300.00	354.80	304.79	2.01	2.52	-0.432	7,680.35	-57.90	7,680.57	7,676.10	4.47	1,718.327	
400.00	400.00	454.54	404.53	2.35	3.06	-0.426	7,680.30	-57.17	7,680.51	7,675.18	5.33	1,441.321	
489.99	489.99	540.00	489.99	2.62	3.31	-0.422	7,680.27	-56.57	7,680.48	7,674.67	5.81	1,321.294	
500.00	500.00	548.98	498.96	2.65	3.33	-0.422	7,680.28	-56.51	7,680.48	7,674.62	5.86	1,310.405	
600.00	600.00	637.21	587.20	2.93	3.55	-0.418	7,680.36	-55.99	7,680.58	7,674.27	6.31	1,217.378	
700.00	700.00	733.87	683.85	3.18	3.77	-0.415	7,680.54	-55.58	7,680.76	7,674.02	6.74	1,139.061	
800.00	800.00	823.28	773.27	3.41	3.95	-0.413	7,680.79	-55.38	7,681.04	7,673.90	7.14	1,076.090	
900.00	900.00	911.85	861.84	3.64	4.12	-0.413	7,681.18	-55.31	7,681.47	7,673.95	7.52	1,021.575	
1,000.00	1,000.00	1,017.10	967.08	3.85	4.29	-0.413	7,681.67	-55.31	7,681.94	7,674.02	7.92	970.004	
1,100.00	1,100.00	1,122.81	1,072.80	4.05	4.45	-0.413	7,682.07	-55.43	7,682.32	7,674.02	8.30	925.945	
1,200.00	1,200.00	1,209.82	1,159.80	4.24	4.53	-0.416	7,682.42	-55.74	7,682.73	7,674.11	8.61	892.143	
1,300.00	1,300.00	1,348.96	1,298.93	4.43	4.68	-0.423	7,682.91	-56.67	7,683.12	7,674.11	9.01	852.726	
1,400.00	1,400.00	1,462.40	1,412.38	4.61	4.78	-0.425	7,682.78	-57.00	7,683.00	7,673.68	9.32	824.355	
1,500.00	1,500.00	1,553.91	1,503.89	4.78	4.87	-0.426	7,682.69	-57.11	7,682.90	7,673.30	9.60	800.129	
1,501.44	1,501.44	1,555.25	1,505.23	4.79	4.87	-170.412	7,682.69	-57.12	7,682.90	7,673.29	9.61	799.768	
1,600.00	1,599.98	1,659.47	1,609.44	4.98	4.98	-170.411	7,682.65	-57.38	7,684.59	7,674.67	9.92	774.746	
1,620.70	1,620.67	1,685.82	1,635.80	4.99	5.01	-170.410	7,682.60	-57.46	7,685.34	7,675.38	9.96	771.394	
1,700.00	1,699.89	1,767.84	1,717.81	5.07	5.09	-170.416	7,682.40	-57.68	7,688.44	7,678.30	10.14	758.219	
1,800.00	1,799.81	1,882.03	1,832.00	5.23	5.21	-170.423	7,682.07	-57.74	7,692.31	7,681.89	10.42	738.139	
1,900.00	1,899.72	1,980.20	1,930.17	5.41	5.32	-170.427	7,681.65	-57.68	7,696.04	7,685.33	10.71	718.660	
2,000.00	1,999.63	2,076.17	2,026.14	5.60	5.45	-170.430	7,681.30	-57.30	7,699.82	7,688.81	11.01	699.157	
2,100.00	2,099.54	2,162.95	2,112.92	5.80	5.57	-170.429	7,681.08	-56.53	7,703.71	7,692.39	11.32	680.485	
2,200.00	2,199.45	2,249.46	2,199.42	6.02	5.71	-170.424	7,681.01	-55.37	7,707.78	7,696.14	11.64	662.158	
2,300.00	2,299.36	2,337.78	2,287.73	6.24	5.86	-170.418	7,681.09	-53.83	7,712.01	7,700.04	11.97	644.254	
2,400.00	2,399.27	2,419.53	2,369.45	6.47	6.00	-170.407	7,681.31	-51.90	7,716.42	7,704.12	12.30	627.362	
2,500.00	2,499.18	2,462.00	2,411.90	6.72	6.08	-170.401	7,681.52	-50.68	7,721.20	7,708.61	12.59	613.382	
2,600.00	2,599.10	2,513.63	2,463.49	6.96	6.23	-170.389	7,682.12	-48.77	7,726.64	7,713.72	12.92	598.072	
2,700.00	2,699.01	2,557.00	2,506.80	7.22	6.36	-170.375	7,683.12	-46.64	7,732.98	7,719.74	13.24	583.989	
2,800.00	2,798.92	2,614.08	2,563.76	7.48	6.53	-170.354	7,684.80	-43.40	7,739.97	7,726.38	13.60	569.315	
2,900.00	2,898.83	2,684.85	2,634.36	7.74	6.72	-170.325	7,687.10	-39.02	7,747.34	7,733.37	13.96	554.857	
3,000.00	2,998.74	2,754.36	2,703.68	8.01	6.88	-170.295	7,689.64	-34.45	7,755.10	7,740.78	14.32	541.686	
3,100.00	3,098.65	2,840.00	2,789.03	8.28	7.08	-170.255	7,693.02	-28.40	7,763.16	7,748.46	14.70	528.054	
3,200.00	3,198.56	2,906.62	2,855.41	8.56	7.25	-170.221	7,695.85	-23.36	7,771.52	7,756.46	15.07	515.848	
3,300.00	3,298.47	19,085.23	11,048.80	8.84	119.55	-85.282	-375.41	269.41	7,760.50	7,684.40	76.11	101.969	
3,400.00	3,398.39	19,085.33	11,048.80	9.13	119.55	-85.253	-375.51	269.41	7,660.54	7,584.31	76.23	100.495	
3,500.00	3,498.30	19,085.43	11,048.79	9.41	119.55	-85.224	-375.61	269.41	7,560.57	7,484.22	76.35	99.021	
3,600.00	3,598.21	19,085.53	11,048.79	9.70	119.55	-85.194	-375.71	269.41	7,460.61	7,384.13	76.48	97.550	
3,700.00	3,698.12	19,085.64	11,048.79	9.99	119.55	-85.164	-375.82	269.41	7,360.64	7,284.03	76.61	96.080	
3,800.00	3,798.03	19,085.75	11,048.78	10.29	119.55	-85.134	-375.93	269.41	7,260.68	7,183.94	76.74	94.612	
3,900.00	3,897.94	19,085.86	11,048.78	10.58	119.56	-85.103	-376.04	269.40	7,160.72	7,083.84	76.88	93.146	
4,000.00	3,997.85	19,085.97	11,048.77	10.88	119.56	-85.071	-376.15	269.40	7,060.76	6,983.75	77.01	91.682	
4,100.00	4,097.76	19,086.08	11,048.77	11.18	119.56	-85.039	-376.26	269.40	6,960.80	6,883.65	77.15	90.221	
4,200.00	4,197.68	19,086.20	11,048.76	11.48	119.56	-85.006	-376.38	269.40	6,860.84	6,783.55	77.29	88.762	
4,300.00	4,297.59	19,086.31	11,048.76	11.78	119.56	-84.973	-376.49	269.40	6,760.89	6,683.45	77.44	87.306	
4,400.00	4,397.50	19,086.43	11,048.75	12.08	119.56	-84.939	-376.61	269.40	6,660.93	6,583.35	77.59	85.852	
4,500.00	4,497.41	19,086.55	11,048.75	12.39	119.57	-84.905	-376.73	269.40	6,560.98	6,483.24	77.74	84.402	
4,600.00	4,597.32	19,086.68	11,048.75	12.69	119.57	-84.870	-376.85	269.40	6,461.03	6,383.14	77.89	82.954	
4,700.00	4,697.23	19,086.80	11,048.74	13.00	119.57	-84.834	-376.98	269.40	6,361.07	6,283.03	78.04	81.509	
4,800.00	4,797.14	19,086.93	11,048.74	13.31	119.57	-84.798	-377.11	269.40	6,261.12	6,182.93	78.20	80.068	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> Cattleman Fed Com 3 - Cattleman Fed Com 213H - OH / 69914 - Surveys (H&P 616)												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 177-MWD+HRGM												<b>Offset Well Error:</b>	1.00 usft
<b>Reference</b>												<b>Rule Assigned:</b>	
<b>Offset</b>												<b>Warning</b>	
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
							<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
4,900.00	4,897.05	19,087.06	11,048.73	13.62	119.57	-84.761	-377.24	269.40	6,161.18	6,082.82	78.36	78.629	
5,000.00	4,996.97	19,087.19	11,048.73	13.92	119.58	-84.723	-377.37	269.40	6,061.23	5,982.71	78.52	77.195	
5,100.00	5,096.88	19,087.33	11,048.72	14.23	119.58	-84.685	-377.50	269.40	5,961.29	5,882.60	78.68	75.763	
5,200.00	5,196.79	19,087.46	11,048.72	14.55	119.58	-84.646	-377.64	269.40	5,861.34	5,782.49	78.85	74.336	
5,300.00	5,296.70	19,087.60	11,048.71	14.86	119.58	-84.606	-377.78	269.39	5,761.40	5,682.38	79.02	72.912	
5,400.00	5,396.61	19,087.74	11,048.70	15.17	119.58	-84.566	-377.92	269.39	5,661.47	5,582.27	79.19	71.492	
5,500.00	5,496.52	19,087.89	11,048.70	15.48	119.58	-84.525	-378.07	269.39	5,561.53	5,482.16	79.36	70.076	
5,600.00	5,596.43	19,088.04	11,048.69	15.79	119.59	-84.483	-378.21	269.39	5,461.60	5,382.05	79.54	68.664	
5,700.00	5,696.34	19,088.19	11,048.69	16.11	119.59	-84.440	-378.36	269.39	5,361.66	5,281.94	79.72	67.257	
5,800.00	5,796.26	19,088.34	11,048.68	16.42	119.59	-84.396	-378.52	269.39	5,261.73	5,181.83	79.90	65.853	
5,900.00	5,896.17	19,088.50	11,048.68	16.74	119.59	-84.352	-378.67	269.39	5,161.81	5,081.72	80.08	64.454	
6,000.00	5,996.08	19,088.65	11,048.67	17.05	119.60	-84.306	-378.83	269.39	5,061.89	4,981.61	80.27	63.060	
6,100.00	6,095.99	19,088.82	11,048.66	17.37	119.60	-84.260	-378.99	269.39	4,961.97	4,881.51	80.46	61.670	
6,200.00	6,195.90	19,088.98	11,048.66	17.68	119.60	-84.213	-379.16	269.39	4,862.05	4,781.40	80.65	60.285	
6,300.00	6,295.81	19,089.15	11,048.65	18.00	119.60	-84.165	-379.33	269.39	4,762.14	4,681.29	80.84	58.905	
6,400.00	6,395.72	19,089.33	11,048.64	18.32	119.60	-84.115	-379.50	269.38	4,662.23	4,581.19	81.04	57.529	
6,500.00	6,495.63	19,089.50	11,048.64	18.63	119.61	-84.065	-379.68	269.38	4,562.32	4,481.08	81.24	56.159	
6,600.00	6,595.55	19,089.68	11,048.63	18.95	119.61	-84.014	-379.86	269.38	4,462.42	4,380.98	81.44	54.794	
6,700.00	6,695.46	19,089.87	11,048.62	19.27	119.61	-83.961	-380.04	269.38	4,362.52	4,280.88	81.64	53.434	
6,800.00	6,795.37	19,090.05	11,048.62	19.59	119.61	-83.908	-380.23	269.38	4,262.63	4,180.78	81.85	52.079	
6,900.00	6,895.28	19,090.25	11,048.61	19.91	119.62	-83.853	-380.42	269.38	4,162.74	4,080.69	82.06	50.729	
7,000.00	6,995.19	19,090.44	11,048.60	20.23	119.62	-83.797	-380.62	269.38	4,062.86	3,980.59	82.27	49.385	
7,100.00	7,095.10	19,090.64	11,048.59	20.54	119.62	-83.740	-380.82	269.38	3,962.99	3,880.51	82.48	48.047	
7,200.00	7,195.01	19,090.85	11,048.59	20.86	119.63	-83.681	-381.02	269.38	3,863.12	3,780.42	82.70	46.714	
7,300.00	7,294.92	19,091.06	11,048.58	21.18	119.63	-83.621	-381.23	269.37	3,763.26	3,680.34	82.91	45.387	
7,400.00	7,394.84	19,091.27	11,048.57	21.50	119.63	-83.560	-381.45	269.37	3,663.40	3,580.27	83.13	44.066	
7,500.00	7,494.75	19,091.49	11,048.56	21.82	119.63	-83.497	-381.67	269.37	3,563.55	3,480.20	83.36	42.751	
7,600.00	7,594.66	19,091.72	11,048.55	22.14	119.64	-83.433	-381.89	269.37	3,463.72	3,380.14	83.58	41.441	
7,700.00	7,694.57	19,091.95	11,048.54	22.46	119.64	-83.368	-382.12	269.37	3,363.89	3,280.08	83.81	40.138	
7,800.00	7,794.48	19,092.18	11,048.54	22.78	119.64	-83.300	-382.36	269.37	3,264.07	3,180.03	84.04	38.840	
7,900.00	7,894.39	19,092.42	11,048.53	23.10	119.65	-83.231	-382.60	269.37	3,164.27	3,080.00	84.27	37.549	
8,000.00	7,994.30	19,092.67	11,048.52	23.42	119.65	-83.161	-382.84	269.36	3,064.47	2,979.97	84.50	36.264	
8,100.00	8,094.21	19,092.92	11,048.51	23.75	119.65	-83.088	-383.10	269.36	2,964.69	2,879.95	84.74	34.986	
8,200.00	8,194.13	19,093.18	11,048.50	24.07	119.66	-83.014	-383.36	269.36	2,864.93	2,779.95	84.98	33.714	
8,300.00	8,294.04	19,093.45	11,048.49	24.39	119.66	-82.938	-383.62	269.36	2,765.18	2,679.96	85.22	32.448	
8,400.00	8,393.95	19,093.72	11,048.48	24.71	119.67	-82.860	-383.90	269.36	2,665.45	2,579.99	85.46	31.189	
8,500.00	8,493.86	19,094.00	11,048.47	25.03	119.67	-82.779	-384.18	269.36	2,565.75	2,480.04	85.71	29.936	
8,600.00	8,593.77	19,094.29	11,048.46	25.35	119.67	-82.697	-384.46	269.35	2,466.06	2,380.11	85.95	28.690	
8,700.00	8,693.68	19,094.59	11,048.45	25.67	119.68	-82.612	-384.76	269.35	2,366.41	2,280.20	86.21	27.451	
8,800.00	8,793.59	19,094.89	11,048.43	26.00	119.68	-82.525	-385.06	269.35	2,266.78	2,180.32	86.46	26.218	
8,900.00	8,893.50	19,095.20	11,048.42	26.32	119.69	-82.436	-385.38	269.35	2,167.19	2,080.47	86.71	24.992	
9,000.00	8,993.42	19,095.53	11,048.41	26.64	119.69	-82.344	-385.70	269.35	2,067.64	1,980.66	86.97	23.773	
9,100.00	9,093.33	19,095.86	11,048.40	26.96	119.70	-82.249	-386.03	269.35	1,968.13	1,880.89	87.24	22.561	
9,200.00	9,193.24	19,096.20	11,048.39	27.29	119.70	-82.152	-386.37	269.34	1,868.67	1,781.17	87.50	21.356	
9,300.00	9,293.15	19,096.55	11,048.37	27.61	119.71	-82.051	-386.72	269.34	1,769.28	1,681.50	87.77	20.157	
9,400.00	9,393.06	19,096.91	11,048.36	27.93	119.71	-81.948	-387.08	269.34	1,669.96	1,581.91	88.05	18.965	
9,500.00	9,492.97	19,097.28	11,048.35	28.25	119.72	-81.842	-387.45	269.34	1,570.72	1,482.38	88.34	17.781	
9,600.00	9,592.88	19,097.66	11,048.33	28.58	119.72	-81.732	-387.83	269.33	1,471.59	1,382.96	88.63	16.603	
9,700.00	9,692.79	19,098.06	11,048.32	28.90	119.73	-81.619	-388.23	269.33	1,372.58	1,283.64	88.94	15.432	
9,800.00	9,792.71	19,098.47	11,048.30	29.22	119.73	-81.502	-388.64	269.33	1,273.73	1,184.46	89.27	14.268	
9,900.00	9,892.62	19,098.89	11,048.29	29.55	119.74	-81.381	-389.06	269.33	1,175.08	1,085.45	89.63	13.110	
10,000.00	9,992.53	19,099.32	11,048.27	29.87	119.74	-81.257	-389.49	269.32	1,076.67	986.64	90.03	11.959	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> Cattleman Fed Com 3 - Cattleman Fed Com 213H - OH / 69914 - Surveys (H&P 616)												<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 177-MWD+HRGM												<b>Offset Well Error:</b> 1.00 usft
<b>Reference</b>												
<b>Offset</b>												
<b>Semi Major Axis</b>												
<b>Reference</b>												
<b>Offset</b>												
<b>Highside</b>												
<b>Toolface</b>												
<b>Offset Wellbore Centre</b>												
<b>+N/-S</b>												
<b>(usft)</b>												
<b>+E/-W</b>												
<b>(usft)</b>												
<b>Distance</b>												
<b>Between</b>												
<b>Centres</b>												
<b>(usft)</b>												
<b>Between</b>												
<b>Ellipses</b>												
<b>(usft)</b>												
<b>Minimum</b>												
<b>Separation</b>												
<b>(usft)</b>												
<b>Separation</b>												
<b>Factor</b>												
<b>Warning</b>												
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)	
10,100.00	10,092.44	19,099.77	11,048.26	30.19	119.75	-81.128	-389.94	269.32	978.58	888.10	90.49	10.815
10,200.00	10,192.35	19,100.23	11,048.24	30.52	119.76	-80.995	-390.40	269.32	880.92	789.89	91.04	9.677
10,300.00	10,292.26	19,100.72	11,048.22	30.84	119.76	-80.857	-390.88	269.32	783.86	692.12	91.73	8.545
10,400.00	10,392.17	19,101.21	11,048.20	31.16	119.77	-80.714	-391.38	269.31	687.63	594.95	92.68	7.419
10,500.00	10,492.08	19,101.73	11,048.19	31.49	119.78	-80.567	-391.90	269.31	592.66	498.60	94.06	6.301
10,600.00	10,592.00	19,102.26	11,048.17	31.81	119.79	-80.414	-392.43	269.31	499.65	403.44	96.20	5.194
10,700.00	10,691.91	19,102.82	11,048.15	32.13	119.79	-80.255	-392.98	269.30	409.94	310.14	99.80	4.107
10,800.00	10,791.82	19,103.39	11,048.13	32.46	119.80	-80.090	-393.56	269.30	326.27	220.14	106.14	3.074
10,900.00	10,891.73	19,103.99	11,048.11	32.78	119.81	-79.919	-394.15	269.30	254.67	137.73	116.94	2.178
11,000.00	10,991.64	19,104.61	11,048.08	33.11	119.82	-79.741	-394.77	269.29	207.99	77.09	130.89	1.589
11,058.00	11,049.59	19,104.98	11,048.07	33.29	119.82	-79.634	-395.14	269.29	199.74	63.54	136.20	1.467 Level 3, CC, ES, SF
11,100.00	11,091.55	19,105.25	11,048.06	33.43	119.83	-79.556	-395.42	269.29	204.11	67.18	136.93	1.491 Level 3
11,200.00	11,191.46	19,105.92	11,048.04	33.75	119.84	-79.363	-396.09	269.28	245.07	114.80	130.28	1.881
11,300.00	11,291.37	19,106.62	11,048.01	34.08	119.85	-79.162	-396.79	269.28	313.78	192.61	121.17	2.590
11,400.00	11,391.29	19,107.35	11,047.99	34.40	119.86	-78.953	-397.52	269.27	396.05	281.50	114.55	3.457
11,500.00	11,491.20	19,108.11	11,047.96	34.73	119.87	-78.735	-398.28	269.27	485.03	374.75	110.28	4.398
11,600.00	11,591.11	19,108.91	11,047.94	35.05	119.88	-78.507	-399.07	269.26	577.62	470.08	107.55	5.371
11,700.00	11,691.02	19,109.74	11,047.91	35.38	119.89	-78.268	-399.90	269.26	672.34	566.57	105.78	6.356
11,800.00	11,790.93	19,110.61	11,047.88	35.70	119.90	-78.019	-400.77	269.25	768.40	663.79	104.61	7.345
11,900.00	11,890.84	19,111.52	11,047.85	36.03	119.91	-77.758	-401.69	269.25	865.35	761.50	103.85	8.333
11,907.54	11,898.38	19,111.59	11,047.84	36.05	119.92	-77.737	-401.76	269.25	872.69	768.89	103.80	8.407
12,000.00	11,990.80	19,110.67	11,047.88	36.33	119.90	-86.309	-400.83	269.25	962.97	859.62	103.35	9.318
12,028.24	12,019.04	19,109.65	11,047.91	36.36	119.89	80.622	-399.81	269.26	990.64	887.40	103.25	9.595
12,100.00	12,090.80	19,106.55	11,048.02	36.36	119.84	79.731	-396.71	269.28	1,061.08	958.04	103.04	10.298
12,200.00	12,190.80	19,102.04	11,048.18	36.36	119.78	78.444	-392.21	269.31	1,159.50	1,056.64	102.85	11.273
12,300.00	12,290.80	19,097.30	11,048.35	36.36	119.72	77.102	-387.47	269.34	1,258.15	1,155.38	102.77	12.242
12,400.00	12,390.80	19,092.30	11,048.53	36.37	119.65	75.703	-382.47	269.37	1,356.99	1,254.22	102.76	13.205
12,500.00	12,490.80	19,087.01	11,048.73	36.37	119.57	74.245	-377.19	269.40	1,455.97	1,353.16	102.81	14.161
12,528.24	12,519.04	19,085.47	11,048.79	36.37	119.55	73.823	-375.65	269.41	1,483.95	1,381.11	102.84	14.430
12,550.00	12,540.79	19,084.85	11,048.82	36.40	119.54	-89.564	-375.03	269.41	1,505.52	1,402.66	102.86	14.637
12,600.00	12,590.61	19,087.94	11,048.70	36.63	119.59	-54.756	-378.11	269.39	1,555.05	1,452.10	102.95	15.105
12,650.00	12,639.89	19,097.49	11,048.34	36.95	119.72	-34.474	-387.66	269.34	1,604.21	1,501.12	103.09	15.561
12,700.00	12,688.24	19,113.72	11,047.77	37.29	119.94	-23.944	-403.88	269.23	1,652.61	1,549.33	103.28	16.001
12,750.00	12,735.30	19,136.78	11,047.06	37.62	120.27	-17.954	-426.93	269.08	1,699.83	1,596.31	103.52	16.420
12,800.00	12,780.72	19,166.75	11,046.29	37.96	120.68	-14.206	-456.88	268.86	1,745.45	1,641.63	103.82	16.813
12,850.00	12,824.15	19,203.64	11,045.58	38.29	121.20	-11.689	-493.77	268.57	1,789.04	1,684.87	104.16	17.175
12,900.00	12,865.26	19,223.91	11,045.14	38.60	121.48	-10.103	-514.03	268.42	1,830.43	1,725.97	104.46	17.522
12,950.00	12,903.73	19,250.00	11,044.63	38.90	121.84	-8.895	-540.12	268.21	1,869.26	1,764.45	104.81	17.835
13,000.00	12,939.27	19,250.00	11,044.63	39.18	121.84	-8.110	-540.12	268.21	1,905.64	1,800.60	105.05	18.141
13,050.00	12,971.62	19,250.00	11,044.63	39.43	121.84	-7.482	-540.12	268.21	1,939.62	1,834.35	105.27	18.425
13,100.00	13,000.52	19,250.00	11,044.63	39.65	121.84	-6.973	-540.12	268.21	1,971.06	1,865.59	105.47	18.688
13,150.00	13,025.76	19,250.00	11,044.63	39.85	121.84	-6.558	-540.12	268.21	1,999.86	1,894.20	105.65	18.928
13,200.00	13,047.14	19,250.00	11,044.63	40.02	121.84	-6.218	-540.12	268.21	2,025.90	1,920.10	105.81	19.147
13,250.00	13,064.50	19,250.00	11,044.63	40.15	121.84	-5.940	-540.12	268.21	2,049.11	1,943.18	105.93	19.345
13,300.00	13,077.71	19,250.00	11,044.63	40.26	121.84	-5.715	-540.12	268.21	2,069.40	1,963.39	106.01	19.520
13,350.00	13,086.67	19,250.00	11,044.63	40.33	121.84	-5.534	-540.12	268.21	2,086.70	1,980.64	106.06	19.674
13,400.00	13,091.30	19,250.00	11,044.63	40.38	121.84	-5.392	-540.12	268.21	2,100.97	1,994.89	106.08	19.806
13,428.24	13,092.00	19,250.00	11,044.63	40.39	121.84	-5.328	-540.12	268.21	2,107.66	2,001.64	106.02	19.880
13,500.00	13,092.00	19,250.00	11,044.63	40.40	121.84	-5.328	-540.12	268.21	2,124.57	2,018.77	105.79	20.082
13,600.00	13,092.00	19,250.00	11,044.63	40.43	121.84	-5.328	-540.12	268.21	2,151.90	2,046.55	105.35	20.427



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> Cattleman Fed Com 3 - Cattleman Fed Com 213H - OH / 69914 - Surveys (H&P 616)												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 177-MWD+HRGM												<b>Offset Well Error:</b>	1.00 usft
<b>Reference</b>												<b>Rule Assigned:</b>	
<b>Offset</b>												<b>Warning</b>	
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
							<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
13,900.00	13,092.00	19,250.00	11,044.63	40.53	121.84	-5.328	-540.12	268.21	2,258.62	2,155.19	103.42	21.839	
14,000.00	13,092.00	19,250.00	11,044.63	40.58	121.84	-5.328	-540.12	268.21	2,301.79	2,199.16	102.63	22.427	
14,100.00	13,092.00	19,250.00	11,044.63	40.63	121.84	-5.328	-540.12	268.21	2,348.43	2,246.64	101.79	23.071	
14,200.00	13,092.00	19,250.00	11,044.63	40.69	121.84	-5.328	-540.12	268.21	2,398.33	2,297.43	100.91	23.768	
14,300.00	13,092.00	19,250.00	11,044.63	40.76	121.84	-5.328	-540.12	268.21	2,451.31	2,351.31	99.99	24.515	
14,400.00	13,092.00	19,250.00	11,044.63	40.85	121.84	-5.328	-540.12	268.21	2,507.15	2,408.09	99.06	25.310	
14,500.00	13,092.00	19,250.00	11,044.63	40.95	121.84	-5.328	-540.12	268.21	2,565.67	2,467.56	98.11	26.150	
14,600.00	13,092.00	19,250.00	11,044.63	41.10	121.84	-5.328	-540.12	268.21	2,626.70	2,529.54	97.17	27.033	
14,700.00	13,092.00	19,250.00	11,044.63	41.29	121.84	-5.328	-540.12	268.21	2,690.07	2,593.84	96.22	27.957	
14,800.00	13,092.00	19,250.00	11,044.63	41.57	121.84	-5.328	-540.12	268.21	2,755.60	2,660.31	95.29	28.919	
14,900.00	13,092.00	19,250.00	11,044.63	41.99	121.84	-5.328	-540.12	268.21	2,823.16	2,728.79	94.36	29.917	
15,000.00	13,092.00	19,250.00	11,044.63	42.60	121.84	-5.328	-540.12	268.21	2,892.60	2,799.14	93.46	30.950	
15,100.00	13,092.00	19,250.00	11,044.63	43.42	121.84	-5.328	-540.12	268.21	2,963.78	2,871.21	92.57	32.015	
15,200.00	13,092.00	19,250.00	11,044.63	44.43	121.84	-5.328	-540.12	268.21	3,036.59	2,944.88	91.71	33.110	
15,300.00	13,092.00	19,250.00	11,044.63	45.56	121.84	-5.328	-540.12	268.21	3,110.91	3,020.04	90.87	34.233	
15,400.00	13,092.00	19,250.00	11,044.63	46.76	121.84	-5.328	-540.12	268.21	3,186.64	3,096.58	90.06	35.383	
15,500.00	13,092.00	19,250.00	11,044.63	48.01	121.84	-5.328	-540.12	268.21	3,263.67	3,174.40	89.27	36.558	
15,600.00	13,092.00	19,250.00	11,044.63	49.30	121.84	-5.328	-540.12	268.21	3,341.92	3,253.41	88.51	37.756	
15,700.00	13,092.00	19,250.00	11,044.63	50.61	121.84	-5.328	-540.12	268.21	3,421.31	3,333.53	87.78	38.976	
15,800.00	13,092.00	19,250.00	11,044.63	51.93	121.84	-5.328	-540.12	268.21	3,501.75	3,414.67	87.07	40.216	
15,900.00	13,092.00	19,250.00	11,044.63	53.27	121.84	-5.328	-540.12	268.21	3,583.17	3,496.78	86.39	41.475	
16,000.00	13,092.00	19,250.00	11,044.63	54.61	121.84	-5.328	-540.12	268.21	3,665.52	3,579.78	85.74	42.752	
16,100.00	13,092.00	19,250.00	11,044.63	55.97	121.84	-5.328	-540.12	268.21	3,748.72	3,663.61	85.11	44.044	
16,200.00	13,092.00	19,250.00	11,044.63	57.33	121.84	-5.328	-540.12	268.21	3,832.72	3,748.21	84.51	45.352	
16,300.00	13,092.00	19,250.00	11,044.63	58.69	121.84	-5.328	-540.12	268.21	3,917.48	3,833.55	83.93	46.674	
16,400.00	13,092.00	19,250.00	11,044.63	60.06	121.84	-5.328	-540.12	268.21	4,002.94	3,919.56	83.38	48.009	
16,500.00	13,092.00	19,250.00	11,044.63	61.44	121.84	-5.328	-540.12	268.21	4,089.06	4,006.21	82.85	49.355	
16,600.00	13,092.00	19,250.00	11,044.63	62.81	121.84	-5.328	-540.12	268.21	4,175.80	4,093.46	82.34	50.713	
16,700.00	13,092.00	19,250.00	11,044.63	64.20	121.84	-5.328	-540.12	268.21	4,263.12	4,181.27	81.86	52.081	
16,800.00	13,092.00	19,250.00	11,044.63	65.58	121.84	-5.328	-540.12	268.21	4,350.99	4,269.60	81.39	53.457	
16,900.00	13,092.00	19,250.00	11,044.63	66.97	121.84	-5.328	-540.12	268.21	4,439.37	4,358.42	80.95	54.842	
17,000.00	13,092.00	19,250.00	11,044.63	68.36	121.84	-5.328	-540.12	268.21	4,528.23	4,447.71	80.52	56.235	
17,100.00	13,092.00	19,250.00	11,044.63	69.75	121.84	-5.328	-540.12	268.21	4,617.55	4,537.43	80.12	57.634	
17,200.00	13,092.00	19,250.00	11,044.63	71.14	121.84	-5.328	-540.12	268.21	4,707.30	4,627.57	79.73	59.040	
17,300.00	13,092.00	19,250.00	11,044.63	72.54	121.84	-5.328	-540.12	268.21	4,797.45	4,718.09	79.36	60.451	
17,400.00	13,092.00	19,250.00	11,044.63	73.94	121.84	-5.328	-540.12	268.21	4,887.99	4,808.98	79.01	61.867	
17,500.00	13,092.00	19,250.00	11,044.63	75.34	121.84	-5.328	-540.12	268.21	4,978.89	4,900.22	78.67	63.287	
17,600.00	13,092.00	19,250.00	11,044.63	76.74	121.84	-5.328	-540.12	268.21	5,070.13	4,991.78	78.35	64.710	
17,700.00	13,092.00	19,250.00	11,044.63	78.14	121.84	-5.328	-540.12	268.21	5,161.70	5,083.65	78.05	66.137	
17,800.00	13,092.00	19,250.00	11,044.63	79.55	121.84	-5.328	-540.12	268.21	5,253.57	5,175.82	77.75	67.567	
17,900.00	13,092.00	19,250.00	11,044.63	80.95	121.84	-5.328	-540.12	268.21	5,345.74	5,268.26	77.48	68.998	
18,000.00	13,092.00	19,250.00	11,044.63	82.36	121.84	-5.328	-540.12	268.21	5,438.18	5,360.97	77.21	70.432	
18,100.00	13,092.00	19,250.00	11,044.63	83.76	121.84	-5.328	-540.12	268.21	5,530.88	5,453.92	76.96	71.866	
18,200.00	13,092.00	19,250.00	11,044.63	85.17	121.84	-5.328	-540.12	268.21	5,623.84	5,547.12	76.72	73.301	
18,300.00	13,092.00	19,250.00	11,044.63	86.58	121.84	-5.328	-540.12	268.21	5,717.03	5,640.54	76.50	74.737	
18,400.00	13,092.00	19,250.00	11,044.63	87.99	121.84	-5.328	-540.12	268.21	5,810.45	5,734.17	76.28	76.173	
18,500.00	13,092.00	19,250.00	11,044.63	89.40	121.84	-5.328	-540.12	268.21	5,904.08	5,828.01	76.07	77.609	
18,600.00	13,092.00	19,250.00	11,044.63	90.81	121.84	-5.328	-540.12	268.21	5,997.92	5,922.04	75.88	79.044	
18,700.00	13,092.00	19,250.00	11,044.63	92.23	121.84	-5.328	-540.12	268.21	6,091.96	6,016.26	75.70	80.478	
18,800.00	13,092.00	19,250.00	11,044.63	93.64	121.84	-5.328	-540.12	268.21	6,186.18	6,110.66	75.52	81.911	
18,900.00	13,092.00	19,250.00	11,044.63	95.06	121.84	-5.328	-540.12	268.21	6,280.59	6,205.23	75.36	83.342	
19,000.00	13,092.00	19,250.00	11,044.63	96.47	121.84	-5.328	-540.12	268.21	6,375.16	6,299.96	75.20	84.771	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> Cattleman Fed Com 3 - Cattleman Fed Com 213H - OH / 69914 - Surveys (H&P 616)												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 177-MWD+HRGM												<b>Offset Well Error:</b>	1.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
19,100.00	13,092.00	19,250.00	11,044.63	97.89	121.84	-5.328	-540.12	268.21	6,469.90	6,394.84	75.06	86.199	
19,200.00	13,092.00	19,250.00	11,044.63	99.30	121.84	-5.328	-540.12	268.21	6,564.79	6,489.87	74.92	87.624	
19,300.00	13,092.00	19,250.00	11,044.63	100.72	121.84	-5.328	-540.12	268.21	6,659.83	6,585.04	74.79	89.046	
19,400.00	13,092.00	19,250.00	11,044.63	102.14	121.84	-5.328	-540.12	268.21	6,755.01	6,680.34	74.67	90.466	
19,500.00	13,092.00	19,250.00	11,044.63	103.55	121.84	-5.328	-540.12	268.21	6,850.34	6,775.78	74.56	91.883	
19,600.00	13,092.00	19,250.00	11,044.63	104.97	121.84	-5.328	-540.12	268.21	6,945.79	6,871.34	74.45	93.297	
19,700.00	13,092.00	19,250.00	11,044.63	106.39	121.84	-5.328	-540.12	268.21	7,041.37	6,967.02	74.35	94.707	
19,800.00	13,092.00	19,250.00	11,044.63	107.81	121.84	-5.328	-540.12	268.21	7,137.07	7,062.81	74.26	96.113	
19,900.00	13,092.00	19,250.00	11,044.63	109.23	121.84	-5.328	-540.12	268.21	7,232.89	7,158.72	74.17	97.516	
20,000.00	13,092.00	19,250.00	11,044.63	110.65	121.84	-5.328	-540.12	268.21	7,328.82	7,254.72	74.09	98.915	
20,100.00	13,092.00	19,250.00	11,044.63	112.07	121.84	-5.328	-540.12	268.21	7,424.85	7,350.83	74.02	100.310	
20,200.00	13,092.00	19,250.00	11,044.63	113.49	121.84	-5.328	-540.12	268.21	7,520.99	7,447.04	73.95	101.701	
20,300.00	13,092.00	19,250.00	11,044.63	114.91	121.84	-5.328	-540.12	268.21	7,617.23	7,543.34	73.89	103.088	
20,400.00	13,092.00	19,250.00	11,044.63	116.34	121.84	-5.328	-540.12	268.21	7,713.57	7,639.73	73.84	104.470	
20,500.00	13,092.00	19,250.00	11,044.63	117.76	121.84	-5.328	-540.12	268.21	7,809.99	7,736.21	73.79	105.847	
20,600.00	13,092.00	19,250.00	11,044.63	119.18	121.84	-5.328	-540.12	268.21	7,906.51	7,832.77	73.74	107.220	
20,700.00	13,092.00	19,250.00	11,044.63	120.60	121.84	-5.328	-540.12	268.21	8,003.11	7,929.41	73.70	108.588	
20,800.00	13,092.00	19,250.00	11,044.63	122.03	121.84	-5.328	-540.12	268.21	8,099.79	8,026.13	73.67	109.951	
20,900.00	13,092.00	19,250.00	11,044.63	123.45	121.84	-5.328	-540.12	268.21	8,196.56	8,122.92	73.64	111.309	
21,000.00	13,092.00	19,250.00	11,044.63	124.87	121.84	-5.328	-540.12	268.21	8,293.40	8,219.78	73.61	112.661	
21,100.00	13,092.00	19,250.00	11,044.63	126.30	121.84	-5.328	-540.12	268.21	8,390.31	8,316.72	73.59	114.009	
21,200.00	13,092.00	19,250.00	11,044.63	127.72	121.84	-5.328	-540.12	268.21	8,487.30	8,413.72	73.58	115.351	
21,300.00	13,092.00	19,250.00	11,044.63	129.15	121.84	-5.328	-540.12	268.21	8,584.35	8,510.78	73.57	116.688	
21,400.00	13,092.00	19,250.00	11,044.63	130.57	121.84	-5.328	-540.12	268.21	8,681.47	8,607.91	73.56	118.020	
21,500.00	13,092.00	19,250.00	11,044.63	132.00	121.84	-5.328	-540.12	268.21	8,778.66	8,705.10	73.56	119.346	
21,600.00	13,092.00	19,250.00	11,044.63	133.42	121.84	-5.328	-540.12	268.21	8,875.91	8,802.35	73.56	120.666	
21,700.00	13,092.00	19,250.00	11,044.63	134.85	121.84	-5.328	-540.12	268.21	8,973.22	8,899.66	73.56	121.981	
21,800.00	13,092.00	19,250.00	11,044.63	136.27	121.84	-5.328	-540.12	268.21	9,070.59	8,997.01	73.57	123.289	
21,900.00	13,092.00	19,250.00	11,044.63	137.70	121.84	-5.328	-540.12	268.21	9,168.01	9,094.43	73.58	124.593	
22,000.00	13,092.00	19,250.00	11,044.63	139.12	121.84	-5.328	-540.12	268.21	9,265.49	9,191.89	73.60	125.890	
22,100.00	13,092.00	19,250.00	11,044.63	140.55	121.84	-5.328	-540.12	268.21	9,363.02	9,289.40	73.62	127.182	
22,200.00	13,092.00	19,250.00	11,044.63	141.98	121.84	-5.328	-540.12	268.21	9,460.61	9,386.96	73.64	128.467	
22,300.00	13,092.00	19,250.00	11,044.63	143.40	121.84	-5.328	-540.12	268.21	9,558.24	9,484.57	73.67	129.747	
22,400.00	13,092.00	19,250.00	11,044.63	144.83	121.84	-5.328	-540.12	268.21	9,655.92	9,582.23	73.70	131.020	
22,500.00	13,092.00	19,250.00	11,044.63	146.26	121.84	-5.328	-540.12	268.21	9,753.65	9,679.92	73.73	132.288	
22,600.00	13,092.00	19,250.00	11,044.63	147.69	121.84	-5.328	-540.12	268.21	9,851.43	9,777.66	73.77	133.550	
22,700.00	13,092.00	19,250.00	11,044.63	149.11	121.84	-5.328	-540.12	268.21	9,949.25	9,875.44	73.80	134.805	
22,728.24	13,092.00	19,250.00	11,044.63	149.52	121.84	-5.328	-540.12	268.21	9,976.88	9,903.07	73.82	135.159	

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





## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> Cattleman Fed Com 4 - Cattleman Fed Com 114H - OH / 69918 - Surveys (H&P 656)													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 175-MWD+HRGM													<b>Offset Well Error:</b> 1.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
0.00	0.00	63.40	21.40	1.00	1.07	6.667	7,816.67	913.66	7,869.91				
100.00	100.00	198.42	156.42	1.08	1.62	6.667	7,815.93	913.57	7,869.35	7,866.64	2.70	2,912.025	
200.00	200.00	288.28	246.28	1.60	2.40	6.667	7,815.35	913.50	7,868.69	7,864.69	4.00	1,967.547	
300.00	300.00	382.03	340.03	2.01	3.12	6.667	7,814.86	913.45	7,868.16	7,863.03	5.13	1,533.747	
400.00	400.00	470.01	428.00	2.35	3.34	6.670	7,814.35	913.86	7,867.66	7,861.97	5.69	1,383.156	
465.48	465.48	507.49	465.48	2.55	3.40	6.672	7,814.26	914.08	7,867.54	7,861.59	5.95	1,322.030	
500.00	500.00	538.00	495.99	2.65	3.46	6.673	7,814.28	914.23	7,867.58	7,861.48	6.11	1,287.913	
600.00	600.00	662.16	620.15	2.93	3.76	6.678	7,814.07	914.96	7,867.48	7,860.81	6.67	1,180.105	
700.00	700.00	744.65	702.64	3.18	4.10	6.682	7,813.89	915.44	7,867.33	7,860.09	7.24	1,086.425	
715.07	715.07	757.09	715.07	3.21	4.16	6.683	7,813.88	915.51	7,867.33	7,860.01	7.33	1,073.943	
800.00	800.00	824.79	782.78	3.41	4.40	6.685	7,813.91	915.85	7,867.42	7,859.66	7.76	1,014.307	
900.00	900.00	900.00	857.98	3.64	4.55	6.689	7,814.15	916.37	7,867.82	7,859.71	8.11	970.626	
1,000.00	1,000.00	992.51	950.48	3.85	4.70	6.693	7,814.64	917.08	7,868.43	7,859.99	8.43	932.905	
1,100.00	1,100.00	1,098.49	1,056.46	4.05	5.00	6.699	7,815.18	917.88	7,869.02	7,860.11	8.91	883.213	
1,200.00	1,200.00	1,238.96	1,196.93	4.24	5.36	6.707	7,815.56	919.03	7,869.41	7,860.01	9.40	836.851	
1,300.00	1,300.00	1,378.03	1,336.00	4.43	5.87	6.716	7,815.11	920.22	7,869.18	7,859.15	10.03	784.520	
1,400.00	1,400.00	1,496.07	1,454.02	4.61	6.34	6.726	7,814.21	921.60	7,868.55	7,857.92	10.63	740.150	
1,500.00	1,500.00	1,596.06	1,554.00	4.78	6.77	6.736	7,813.38	922.79	7,867.87	7,856.68	11.19	703.190	
1,520.54	1,520.54	1,616.60	1,574.53	4.82	6.86	-163.249	7,813.21	923.02	7,867.79	7,856.49	11.31	695.904	
1,600.00	1,599.98	1,636.00	1,593.94	4.98	6.94	-163.241	7,813.05	923.25	7,869.08	7,857.55	11.53	682.742	
1,620.70	1,620.67	1,680.79	1,638.73	4.99	7.08	-163.236	7,812.78	923.76	7,869.66	7,858.00	11.65	675.273	
1,700.00	1,699.89	1,724.75	1,682.68	5.07	7.22	-163.236	7,812.72	924.26	7,872.85	7,861.00	11.85	664.238	
1,800.00	1,799.81	1,780.15	1,738.08	5.23	7.39	-163.237	7,812.92	924.88	7,877.38	7,865.23	12.15	648.327	
1,900.00	1,899.72	1,825.00	1,782.92	5.41	7.52	-163.238	7,813.32	925.37	7,882.50	7,870.05	12.44	633.609	
2,000.00	1,999.63	1,919.92	1,877.83	5.60	7.84	-163.239	7,814.52	926.53	7,887.93	7,875.01	12.92	610.648	
2,100.00	2,099.54	2,014.00	1,971.89	5.80	8.17	-163.238	7,815.96	927.88	7,893.64	7,880.24	13.40	589.018	
2,200.00	2,199.45	2,097.15	2,055.01	6.02	8.45	-163.236	7,817.33	929.34	7,899.49	7,885.64	13.85	570.194	
2,300.00	2,299.36	2,198.53	2,156.36	6.24	8.80	-163.231	7,818.93	931.53	7,905.34	7,890.98	14.37	550.244	
2,400.00	2,399.27	2,271.69	2,229.48	6.47	9.06	-163.225	7,820.15	933.40	7,911.34	7,896.54	14.80	534.563	
2,500.00	2,499.18	2,343.51	2,301.25	6.72	9.31	-163.218	7,821.59	935.46	7,917.70	7,902.46	15.24	519.690	
2,600.00	2,599.10	2,433.75	2,391.43	6.96	9.63	-163.207	7,823.65	938.35	7,924.37	7,908.63	15.73	503.690	
2,700.00	2,699.01	18,351.93	10,542.51	7.22	118.19	-90.301	-210.59	957.63	7,902.43	7,829.78	72.65	108.779	
2,800.00	2,798.92	18,353.45	10,542.48	7.48	118.21	-90.206	-212.11	957.62	7,803.10	7,730.31	72.78	107.212	
2,900.00	2,898.83	18,354.98	10,542.45	7.74	118.23	-90.111	-213.65	957.61	7,703.78	7,630.86	72.92	105.645	
3,000.00	2,998.74	18,356.53	10,542.42	8.01	118.25	-90.015	-215.19	957.60	7,604.48	7,531.42	73.06	104.080	
3,100.00	3,098.65	18,358.08	10,542.39	8.28	118.27	-89.918	-216.74	957.59	7,505.20	7,431.99	73.21	102.516	
3,200.00	3,198.56	18,359.64	10,542.36	8.56	118.29	-89.821	-218.30	957.58	7,405.94	7,332.58	73.36	100.954	
3,300.00	3,298.47	18,361.22	10,542.33	8.84	118.32	-89.723	-219.88	957.57	7,306.70	7,233.19	73.51	99.393	
3,400.00	3,398.39	18,362.80	10,542.29	9.13	118.34	-89.624	-221.46	957.57	7,207.48	7,133.81	73.67	97.835	
3,500.00	3,498.30	18,364.39	10,542.26	9.41	118.36	-89.525	-223.05	957.56	7,108.28	7,034.46	73.83	96.280	
3,600.00	3,598.21	18,365.99	10,542.23	9.70	118.38	-89.425	-224.65	957.55	7,009.11	6,935.11	73.99	94.726	
3,700.00	3,698.12	18,367.61	10,542.20	9.99	118.41	-89.324	-226.26	957.54	6,909.96	6,835.79	74.16	93.175	
3,800.00	3,798.03	18,369.23	10,542.17	10.29	118.43	-89.223	-227.89	957.53	6,810.83	6,736.49	74.33	91.627	
3,900.00	3,897.94	18,370.86	10,542.14	10.58	118.45	-89.121	-229.52	957.53	6,711.72	6,637.22	74.51	90.082	
4,000.00	3,997.85	18,372.51	10,542.11	10.88	118.47	-89.018	-231.16	957.52	6,612.65	6,537.96	74.69	88.540	
4,100.00	4,097.76	18,374.16	10,542.07	11.18	118.50	-88.914	-232.82	957.51	6,513.60	6,438.73	74.87	87.001	
4,200.00	4,197.68	18,375.82	10,542.04	11.48	118.52	-88.810	-234.48	957.50	6,414.58	6,339.52	75.05	85.465	
4,300.00	4,297.59	18,389.00	10,541.79	11.78	118.71	-87.982	-247.66	957.45	6,315.60	6,240.27	75.33	83.843	
4,400.00	4,397.50	18,389.00	10,541.79	12.08	118.71	-87.982	-247.66	957.45	6,216.64	6,141.13	75.51	82.329	
4,500.00	4,497.41	18,389.00	10,541.79	12.39	118.71	-87.982	-247.66	957.45	6,117.71	6,042.01	75.70	80.818	
4,600.00	4,597.32	18,389.00	10,541.79	12.69	118.71	-87.982	-247.66	957.45	6,018.82	5,942.93	75.89	79.311	
4,700.00	4,697.23	18,389.00	10,541.79	13.00	118.71	-87.982	-247.66	957.45	5,919.96	5,843.87	76.08	77.807	

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





## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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		
4,800.00	4,797.14	18,389.00	10,541.79	13.31	118.71	-87.982	-247.66	957.45	5,821.14	5,744.86	76.29	76.307			
4,900.00	4,897.05	18,389.00	10,541.79	13.62	118.71	-87.982	-247.66	957.45	5,722.37	5,645.88	76.49	74.811			
5,000.00	4,996.97	18,389.00	10,541.79	13.92	118.71	-87.982	-247.66	957.45	5,623.63	5,546.93	76.70	73.318			
5,100.00	5,096.88	18,389.00	10,541.79	14.23	118.71	-87.982	-247.66	957.45	5,524.95	5,448.03	76.92	71.830			
5,200.00	5,196.79	18,389.00	10,541.79	14.55	118.71	-87.982	-247.66	957.45	5,426.31	5,349.17	77.14	70.346			
5,300.00	5,296.70	18,389.00	10,541.79	14.86	118.71	-87.982	-247.66	957.45	5,327.72	5,250.36	77.36	68.865			
5,400.00	5,396.61	18,389.00	10,541.79	15.17	118.71	-87.982	-247.66	957.45	5,229.19	5,151.59	77.60	67.390			
5,500.00	5,496.52	18,389.00	10,541.79	15.48	118.71	-87.982	-247.66	957.45	5,130.71	5,052.87	77.83	65.918			
5,600.00	5,596.43	18,389.00	10,541.79	15.79	118.71	-87.982	-247.66	957.45	5,032.29	4,954.21	78.08	64.451			
5,700.00	5,696.34	18,389.00	10,541.79	16.11	118.71	-87.982	-247.66	957.45	4,933.94	4,855.61	78.33	62.989			
5,800.00	5,796.26	18,389.00	10,541.79	16.42	118.71	-87.982	-247.66	957.45	4,835.65	4,757.06	78.59	61.532			
5,900.00	5,896.17	18,389.00	10,541.79	16.74	118.71	-87.982	-247.66	957.45	4,737.44	4,658.58	78.85	60.080			
6,000.00	5,996.08	18,389.00	10,541.79	17.05	118.71	-87.982	-247.66	957.45	4,639.30	4,560.17	79.12	58.633			
6,100.00	6,095.99	18,389.00	10,541.79	17.37	118.71	-87.982	-247.66	957.45	4,541.24	4,461.84	79.41	57.190			
6,200.00	6,195.90	18,389.00	10,541.79	17.68	118.71	-87.982	-247.66	957.45	4,443.27	4,363.58	79.69	55.754			
6,300.00	6,295.81	18,389.00	10,541.79	18.00	118.71	-87.982	-247.66	957.45	4,345.39	4,265.40	79.99	54.322			
6,400.00	6,395.72	18,389.00	10,541.79	18.32	118.71	-87.982	-247.66	957.45	4,247.61	4,167.31	80.30	52.896			
6,500.00	6,495.63	18,389.00	10,541.79	18.63	118.71	-87.982	-247.66	957.45	4,149.94	4,069.32	80.62	51.476			
6,600.00	6,595.55	18,389.00	10,541.79	18.95	118.71	-87.982	-247.66	957.45	4,052.38	3,971.43	80.95	50.062			
6,700.00	6,695.46	18,389.00	10,541.79	19.27	118.71	-87.982	-247.66	957.45	3,954.94	3,873.65	81.29	48.653			
6,800.00	6,795.37	18,389.00	10,541.79	19.59	118.71	-87.982	-247.66	957.45	3,857.63	3,775.99	81.64	47.251			
6,900.00	6,895.28	18,389.00	10,541.79	19.91	118.71	-87.982	-247.66	957.45	3,760.47	3,678.46	82.01	45.854			
7,000.00	6,995.19	18,389.00	10,541.79	20.23	118.71	-87.982	-247.66	957.45	3,663.45	3,581.06	82.39	44.464			
7,100.00	7,095.10	18,389.00	10,541.79	20.54	118.71	-87.982	-247.66	957.45	3,566.61	3,483.82	82.79	43.081			
7,200.00	7,195.01	18,389.00	10,541.79	20.86	118.71	-87.982	-247.66	957.45	3,469.94	3,386.73	83.20	41.704			
7,300.00	7,294.92	18,389.00	10,541.79	21.18	118.71	-87.982	-247.66	957.45	3,373.46	3,289.82	83.64	40.334			
7,400.00	7,394.84	18,389.00	10,541.79	21.50	118.71	-87.982	-247.66	957.45	3,277.20	3,193.10	84.09	38.971			
7,500.00	7,494.75	18,389.00	10,541.79	21.82	118.71	-87.982	-247.66	957.45	3,181.17	3,096.59	84.57	37.615			
7,600.00	7,594.66	18,389.00	10,541.79	22.14	118.71	-87.982	-247.66	957.45	3,085.38	3,000.31	85.07	36.267			
7,700.00	7,694.57	18,389.00	10,541.79	22.46	118.71	-87.982	-247.66	957.45	2,989.88	2,904.27	85.61	34.926			
7,800.00	7,794.48	18,389.00	10,541.79	22.78	118.71	-87.982	-247.66	957.45	2,894.68	2,808.51	86.17	33.594			
7,900.00	7,894.39	18,417.19	10,541.48	23.10	119.10	-86.200	-275.84	957.36	2,799.47	2,712.48	86.99	32.181			
8,000.00	7,994.30	18,418.80	10,541.48	23.42	119.12	-86.098	-277.46	957.36	2,704.93	2,617.29	87.64	30.863			
8,100.00	8,094.21	18,420.49	10,541.47	23.75	119.15	-85.990	-279.14	957.35	2,610.79	2,522.46	88.34	29.555			
8,200.00	8,194.13	18,422.26	10,541.47	24.07	119.17	-85.878	-280.91	957.34	2,517.10	2,428.03	89.08	28.257			
8,300.00	8,294.04	18,424.11	10,541.47	24.39	119.20	-85.760	-282.77	957.34	2,423.92	2,334.04	89.88	26.969			
8,400.00	8,393.95	18,426.06	10,541.47	24.71	119.23	-85.637	-284.71	957.33	2,331.29	2,240.55	90.74	25.692			
8,500.00	8,493.86	18,428.10	10,541.47	25.03	119.25	-85.507	-286.75	957.33	2,239.30	2,147.63	91.67	24.428			
8,600.00	8,593.77	18,430.25	10,541.48	25.35	119.28	-85.370	-288.90	957.32	2,148.02	2,055.34	92.68	23.177			
8,700.00	8,693.68	18,432.51	10,541.49	25.67	119.32	-85.226	-291.16	957.31	2,057.54	1,963.76	93.78	21.940			
8,800.00	8,793.59	18,434.90	10,541.50	26.00	119.35	-85.074	-293.55	957.30	1,967.98	1,872.99	94.98	20.719			
8,900.00	8,893.50	18,437.42	10,541.51	26.32	119.39	-84.914	-296.07	957.30	1,879.46	1,783.16	96.30	19.517			
9,000.00	8,993.42	18,440.08	10,541.53	26.64	119.42	-84.744	-298.73	957.29	1,792.15	1,694.40	97.75	18.334			
9,100.00	9,093.33	18,442.90	10,541.56	26.96	119.46	-84.564	-301.56	957.28	1,706.23	1,606.88	99.35	17.175			
9,200.00	9,193.24	18,445.90	10,541.59	27.29	119.50	-84.373	-304.55	957.27	1,621.90	1,520.80	101.11	16.042			
9,300.00	9,293.15	18,449.09	10,541.63	27.61	119.55	-84.170	-307.74	957.26	1,539.45	1,436.40	103.05	14.939			
9,400.00	9,393.06	18,452.48	10,541.68	27.93	119.60	-83.953	-311.13	957.25	1,459.18	1,353.98	105.20	13.871			
9,500.00	9,492.97	18,456.10	10,541.73	28.25	119.65	-83.722	-314.75	957.24	1,381.47	1,273.91	107.57	12.843			
9,600.00	9,592.88	18,459.98	10,541.80	28.58	119.70	-83.474	-318.63	957.22	1,306.78	1,196.62	110.16	11.863			
9,700.00	9,692.79	18,464.13	10,541.88	28.90	119.76	-83.209	-322.78	957.21	1,235.66	1,122.67	112.99	10.936			
9,800.00	9,792.71	18,468.60	10,541.98	29.22	119.82	-82.923	-327.25	957.20	1,168.74	1,052.72	116.03	10.073			
9,900.00	9,892.62	18,484.00	10,542.40	29.55	120.04	-81.937	-342.64	957.15	1,106.87	987.46	119.41	9.270			

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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		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	
10,000.00	9,992.53	18,484.00	10,542.40	29.87	120.04	-81.937	-342.64	957.15	1,050.73	928.07	122.66	8.566		
10,100.00	10,092.44	18,484.33	10,542.41	30.19	120.04	-81.916	-342.97	957.15	1,001.45	875.56	125.89	7.955		
10,200.00	10,192.35	18,491.75	10,542.64	30.52	120.15	-81.441	-350.39	957.12	960.07	830.98	129.08	7.438		
10,300.00	10,292.26	18,499.10	10,542.87	30.84	120.25	-80.970	-357.73	957.10	927.60	795.67	131.93	7.031		
10,400.00	10,392.17	18,506.36	10,543.09	31.16	120.35	-80.504	-365.00	957.08	905.01	770.78	134.22	6.743		
10,500.00	10,492.08	18,513.56	10,543.30	31.49	120.45	-80.043	-372.18	957.05	893.05	757.25	135.80	6.576		
10,558.05	10,550.09	18,517.70	10,543.42	31.67	120.51	-79.777	-376.32	957.04	891.17	754.83	136.34	6.536 CC, ES		
10,600.00	10,592.00	18,520.67	10,543.51	31.81	120.55	-79.587	-379.30	957.03	892.15	755.60	136.55	6.533 SF		
10,700.00	10,691.91	18,527.72	10,543.72	32.13	120.65	-79.135	-386.34	957.01	902.35	765.89	136.46	6.613		
10,800.00	10,791.82	18,534.69	10,543.92	32.46	120.75	-78.688	-393.31	956.98	923.27	787.68	135.59	6.809		
10,900.00	10,891.73	18,541.59	10,544.11	32.78	120.85	-78.246	-400.20	956.96	954.22	820.11	134.11	7.115		
11,000.00	10,991.64	18,548.41	10,544.30	33.11	120.94	-77.808	-407.03	956.94	994.25	862.07	132.18	7.522		
11,100.00	11,091.55	18,555.17	10,544.49	33.43	121.04	-77.375	-413.79	956.91	1,042.33	912.33	130.00	8.018		
11,200.00	11,191.46	18,561.87	10,544.67	33.75	121.13	-76.947	-420.48	956.89	1,097.39	969.67	127.72	8.592		
11,300.00	11,291.37	18,568.49	10,544.85	34.08	121.23	-76.523	-427.10	956.87	1,158.45	1,032.99	125.46	9.234		
11,400.00	11,391.29	18,575.05	10,545.03	34.40	121.32	-76.104	-433.65	956.84	1,224.60	1,101.29	123.30	9.932		
11,500.00	11,491.20	18,581.71	10,545.20	34.73	121.41	-75.679	-440.31	956.82	1,295.06	1,173.76	121.30	10.676		
11,600.00	11,591.11	18,588.48	10,545.38	35.05	121.51	-75.247	-447.08	956.80	1,369.18	1,249.69	119.49	11.459		
11,700.00	11,691.02	18,595.26	10,545.56	35.38	121.60	-74.815	-453.86	956.77	1,446.38	1,328.52	117.86	12.272		
11,800.00	11,790.93	18,602.04	10,545.74	35.70	121.70	-74.384	-460.63	956.75	1,526.20	1,409.77	116.43	13.109		
11,900.00	11,890.84	18,608.81	10,545.92	36.03	121.79	-73.953	-467.41	956.73	1,608.25	1,493.08	115.17	13.964		
11,907.54	11,898.38	18,609.32	10,545.93	36.05	121.80	-73.921	-467.92	956.73	1,614.52	1,499.44	115.08	14.029		
12,000.00	11,990.80	18,614.12	10,546.06	36.33	121.87	-76.410	-472.71	956.71	1,692.41	1,578.35	114.07	14.837		
12,028.24	12,019.04	18,615.01	10,546.08	36.36	121.88	92.725	-473.60	956.71	1,716.57	1,602.80	113.77	15.088		
12,100.00	12,090.80	18,616.90	10,546.13	36.36	121.91	92.848	-475.49	956.70	1,778.53	1,665.45	113.08	15.728		
12,200.00	12,190.80	18,619.53	10,546.20	36.36	121.94	93.019	-478.12	956.69	1,866.03	1,753.80	112.23	16.626		
12,300.00	12,290.80	18,622.17	10,546.27	36.36	121.98	93.190	-480.75	956.68	1,954.74	1,843.22	111.52	17.529		
12,400.00	12,390.80	18,624.80	10,546.34	36.37	122.02	93.360	-483.39	956.67	2,044.48	1,933.56	110.91	18.433		
12,500.00	12,490.80	18,627.44	10,546.41	36.37	122.05	93.531	-486.02	956.66	2,135.13	2,024.71	110.41	19.337		
12,528.24	12,519.04	18,628.18	10,546.43	36.37	122.07	93.580	-486.77	956.66	2,160.88	2,050.59	110.29	19.593		
12,550.00	12,540.79	18,629.17	10,546.45	36.40	122.08	-80.972	-487.75	956.66	2,180.74	2,070.54	110.20	19.789		
12,600.00	12,590.61	18,634.55	10,546.60	36.63	122.15	-69.998	-493.14	956.64	2,226.27	2,116.22	110.05	20.230		
12,650.00	12,639.89	18,644.25	10,546.85	36.95	122.29	-60.059	-502.83	956.60	2,271.35	2,161.38	109.97	20.655		
12,700.00	12,688.24	18,658.18	10,547.22	37.29	122.49	-51.594	-516.76	956.55	2,315.61	2,205.67	109.95	21.061		
12,750.00	12,735.30	18,676.24	10,547.70	37.62	122.74	-44.658	-534.81	956.49	2,358.70	2,248.71	109.99	21.445		
12,800.00	12,780.72	18,698.30	10,548.28	37.96	123.05	-39.082	-556.86	956.41	2,400.27	2,290.18	110.10	21.801		
12,850.00	12,824.15	18,705.00	10,548.45	38.29	123.15	-34.978	-563.56	956.39	2,440.07	2,330.00	110.07	22.169		
12,900.00	12,865.26	18,705.00	10,548.45	38.60	123.15	-31.772	-563.56	956.39	2,478.01	2,368.03	109.98	22.531		
12,950.00	12,903.73	18,705.00	10,548.45	38.90	123.15	-29.155	-563.56	956.39	2,513.92	2,404.01	109.91	22.873		
13,000.00	12,939.27	18,705.00	10,548.45	39.18	123.15	-27.009	-563.56	956.39	2,547.60	2,437.76	109.84	23.193		
13,050.00	12,971.62	18,705.00	10,548.45	39.43	123.15	-25.241	-563.56	956.39	2,578.90	2,469.12	109.78	23.492		
13,100.00	13,000.52	18,705.00	10,548.45	39.65	123.15	-23.781	-563.56	956.39	2,607.66	2,497.95	109.72	23.767		
13,150.00	13,025.76	18,705.00	10,548.45	39.85	123.15	-22.576	-563.56	956.39	2,633.76	2,524.11	109.66	24.018		
13,200.00	13,047.14	18,705.00	10,548.45	40.02	123.15	-21.585	-563.56	956.39	2,657.08	2,547.49	109.59	24.246		
13,250.00	13,064.50	18,705.00	10,548.45	40.15	123.15	-20.776	-563.56	956.39	2,677.51	2,567.99	109.52	24.448		
13,300.00	13,077.71	18,705.00	10,548.45	40.26	123.15	-20.125	-563.56	956.39	2,694.96	2,585.52	109.44	24.625		
13,350.00	13,086.67	18,705.00	10,548.45	40.33	123.15	-19.613	-563.56	956.39	2,709.37	2,600.01	109.35	24.776		
13,400.00	13,091.30	18,705.00	10,548.45	40.38	123.15	-19.227	-563.56	956.39	2,720.66	2,611.41	109.26	24.901		
13,428.24	13,092.00	18,705.00	10,548.45	40.39	123.15	-19.061	-563.56	956.39	2,725.65	2,616.50	109.15	24.971		
13,500.00	13,092.00	18,705.00	10,548.45	40.40	123.15	-19.061	-563.56	956.39	2,737.96	2,629.12	108.84	25.156		
13,600.00	13,092.00	18,705.00	10,548.45	40.43	123.15	-19.061	-563.56	956.39	2,758.13	2,649.82	108.31	25.465		
13,700.00	13,092.00	18,705.00	10,548.45	40.46	123.15	-19.061	-563.56	956.39	2,781.76	2,674.03	107.73	25.823		

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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		Reference		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		
13,800.00	13,092.00	18,705.00	10,548.45	40.50	123.15	-19.061	-563.56	956.39	2,808.74	2,701.66	107.09	26.229			
13,900.00	13,092.00	18,705.00	10,548.45	40.53	123.15	-19.061	-563.56	956.39	2,839.00	2,732.60	106.40	26.683			
14,000.00	13,092.00	18,705.00	10,548.45	40.58	123.15	-19.061	-563.56	956.39	2,872.42	2,766.76	105.66	27.185			
14,100.00	13,092.00	18,705.00	10,548.45	40.63	123.15	-19.061	-563.56	956.39	2,908.90	2,804.00	104.89	27.732			
14,200.00	13,092.00	18,705.00	10,548.45	40.69	123.15	-19.061	-563.56	956.39	2,948.31	2,844.22	104.09	28.324			
14,300.00	13,092.00	18,705.00	10,548.45	40.76	123.15	-19.061	-563.56	956.39	2,990.56	2,887.29	103.27	28.959			
14,400.00	13,092.00	18,705.00	10,548.45	40.85	123.15	-19.061	-563.56	956.39	3,035.51	2,933.08	102.43	29.636			
14,500.00	13,092.00	18,705.00	10,548.45	40.95	123.15	-19.061	-563.56	956.39	3,083.05	2,981.48	101.57	30.355			
14,600.00	13,092.00	18,705.00	10,548.45	41.10	123.15	-19.061	-563.56	956.39	3,133.06	3,032.36	100.70	31.112			
14,700.00	13,092.00	18,705.00	10,548.45	41.29	123.15	-19.061	-563.56	956.39	3,185.42	3,085.59	99.83	31.908			
14,800.00	13,092.00	18,705.00	10,548.45	41.57	123.15	-19.061	-563.56	956.39	3,240.03	3,141.07	98.96	32.741			
14,900.00	13,092.00	18,705.00	10,548.45	41.99	123.15	-19.061	-563.56	956.39	3,296.77	3,198.68	98.09	33.609			
15,000.00	13,092.00	18,705.00	10,548.45	42.60	123.15	-19.061	-563.56	956.39	3,355.53	3,258.29	97.23	34.510			
15,100.00	13,092.00	18,705.00	10,548.45	43.42	123.15	-19.061	-563.56	956.39	3,416.20	3,319.82	96.38	35.444			
15,200.00	13,092.00	18,705.00	10,548.45	44.43	123.15	-19.061	-563.56	956.39	3,478.69	3,383.15	95.54	36.410			
15,300.00	13,092.00	18,705.00	10,548.45	45.56	123.15	-19.061	-563.56	956.39	3,542.91	3,448.19	94.72	37.404			
15,400.00	13,092.00	18,705.00	10,548.45	46.76	123.15	-19.061	-563.56	956.39	3,608.75	3,514.84	93.91	38.427			
15,500.00	13,092.00	18,705.00	10,548.45	48.01	123.15	-19.061	-563.56	956.39	3,676.13	3,583.01	93.12	39.477			
15,600.00	13,092.00	18,705.00	10,548.45	49.30	123.15	-19.061	-563.56	956.39	3,744.97	3,652.62	92.35	40.552			
15,700.00	13,092.00	18,705.00	10,548.45	50.61	123.15	-19.061	-563.56	956.39	3,815.19	3,723.59	91.60	41.652			
15,800.00	13,092.00	18,705.00	10,548.45	51.93	123.15	-19.061	-563.56	956.39	3,886.72	3,795.85	90.87	42.774			
15,900.00	13,092.00	18,705.00	10,548.45	53.27	123.15	-19.061	-563.56	956.39	3,959.47	3,869.32	90.16	43.918			
16,000.00	13,092.00	18,705.00	10,548.45	54.61	123.15	-19.061	-563.56	956.39	4,033.40	3,943.93	89.47	45.082			
16,100.00	13,092.00	18,705.00	10,548.45	55.97	123.15	-19.061	-563.56	956.39	4,108.43	4,019.63	88.80	46.265			
16,200.00	13,092.00	18,705.00	10,548.45	57.33	123.15	-19.061	-563.56	956.39	4,184.50	4,096.35	88.16	47.467			
16,300.00	13,092.00	18,705.00	10,548.45	58.69	123.15	-19.061	-563.56	956.39	4,261.57	4,174.03	87.53	48.685			
16,400.00	13,092.00	18,705.00	10,548.45	60.06	123.15	-19.061	-563.56	956.39	4,339.56	4,252.63	86.93	49.920			
16,500.00	13,092.00	18,705.00	10,548.45	61.44	123.15	-19.061	-563.56	956.39	4,418.45	4,332.10	86.35	51.169			
16,600.00	13,092.00	18,705.00	10,548.45	62.81	123.15	-19.061	-563.56	956.39	4,498.17	4,412.38	85.79	52.431			
16,700.00	13,092.00	18,705.00	10,548.45	64.20	123.15	-19.061	-563.56	956.39	4,578.69	4,493.44	85.25	53.707			
16,800.00	13,092.00	18,705.00	10,548.45	65.58	123.15	-19.061	-563.56	956.39	4,659.97	4,575.23	84.74	54.994			
16,900.00	13,092.00	18,705.00	10,548.45	66.97	123.15	-19.061	-563.56	956.39	4,741.96	4,657.72	84.24	56.293			
17,000.00	13,092.00	18,705.00	10,548.45	68.36	123.15	-19.061	-563.56	956.39	4,824.63	4,740.87	83.76	57.601			
17,100.00	13,092.00	18,705.00	10,548.45	69.75	123.15	-19.061	-563.56	956.39	4,907.95	4,824.65	83.30	58.919			
17,200.00	13,092.00	18,705.00	10,548.45	71.14	123.15	-19.061	-563.56	956.39	4,991.88	4,909.02	82.86	60.245			
17,300.00	13,092.00	18,705.00	10,548.45	72.54	123.15	-19.061	-563.56	956.39	5,076.39	4,993.95	82.44	61.579			
17,400.00	13,092.00	18,705.00	10,548.45	73.94	123.15	-19.061	-563.56	956.39	5,161.45	5,079.42	82.03	62.919			
17,500.00	13,092.00	18,705.00	10,548.45	75.34	123.15	-19.061	-563.56	956.39	5,247.04	5,165.40	81.65	64.266			
17,600.00	13,092.00	18,705.00	10,548.45	76.74	123.15	-19.061	-563.56	956.39	5,333.14	5,251.86	81.27	65.619			
17,700.00	13,092.00	18,705.00	10,548.45	78.14	123.15	-19.061	-563.56	956.39	5,419.71	5,338.79	80.92	66.976			
17,800.00	13,092.00	18,705.00	10,548.45	79.55	123.15	-19.061	-563.56	956.39	5,506.73	5,426.15	80.58	68.338			
17,900.00	13,092.00	18,705.00	10,548.45	80.95	123.15	-19.061	-563.56	956.39	5,594.19	5,513.93	80.26	69.704			
18,000.00	13,092.00	18,705.00	10,548.45	82.36	123.15	-19.061	-563.56	956.39	5,682.06	5,602.11	79.95	71.072			
18,100.00	13,092.00	18,705.00	10,548.45	83.76	123.15	-19.061	-563.56	956.39	5,770.33	5,690.68	79.65	72.444			
18,200.00	13,092.00	18,705.00	10,548.45	85.17	123.15	-19.061	-563.56	956.39	5,858.97	5,779.60	79.37	73.817			
18,300.00	13,092.00	18,705.00	10,548.45	86.58	123.15	-19.061	-563.56	956.39	5,947.98	5,868.88	79.10	75.193			
18,400.00	13,092.00	18,705.00	10,548.45	87.99	123.15	-19.061	-563.56	956.39	6,037.33	5,958.48	78.85	76.569			
18,500.00	13,092.00	18,705.00	10,548.45	89.40	123.15	-19.061	-563.56	956.39	6,127.01	6,048.40	78.61	77.946			
18,600.00	13,092.00	18,705.00	10,548.45	90.81	123.15	-19.061	-563.56	956.39	6,217.00	6,138.62	78.38	79.324			
18,700.00	13,092.00	18,705.00	10,548.45	92.23	123.15	-19.061	-563.56	956.39	6,307.29	6,229.14	78.16	80.701			
18,800.00	13,092.00	18,705.00	10,548.45	93.64	123.15	-19.061	-563.56	956.39	6,397.88	6,319.93	77.95	82.078			
18,900.00	13,092.00	18,705.00	10,548.45	95.06	123.15	-19.061	-563.56	956.39	6,488.74	6,410.99	77.75	83.454			

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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					Rule Assigned:							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)					
19,000.00	13,092.00	18,705.00	10,548.45	96.47	123.15	-19.061	-563.56	956.39	6,579.86	6,502.30	77.57	84.830			
19,100.00	13,092.00	18,705.00	10,548.45	97.89	123.15	-19.061	-563.56	956.39	6,671.24	6,593.85	77.39	86.203			
19,200.00	13,092.00	18,705.00	10,548.45	99.30	123.15	-19.061	-563.56	956.39	6,762.87	6,685.64	77.22	87.575			
19,300.00	13,092.00	18,705.00	10,548.45	100.72	123.15	-19.061	-563.56	956.39	6,854.72	6,777.66	77.07	88.945			
19,400.00	13,092.00	18,705.00	10,548.45	102.14	123.15	-19.061	-563.56	956.39	6,946.80	6,869.89	76.92	90.313			
19,500.00	13,092.00	18,705.00	10,548.45	103.55	123.15	-19.061	-563.56	956.39	7,039.10	6,962.32	76.78	91.678			
19,600.00	13,092.00	18,705.00	10,548.45	104.97	123.15	-19.061	-563.56	956.39	7,131.61	7,054.96	76.65	93.041			
19,700.00	13,092.00	18,705.00	10,548.45	106.39	123.15	-19.061	-563.56	956.39	7,224.31	7,147.79	76.53	94.400			
19,800.00	13,092.00	18,705.00	10,548.45	107.81	123.15	-19.061	-563.56	956.39	7,317.21	7,240.80	76.42	95.756			
19,900.00	13,092.00	18,705.00	10,548.45	109.23	123.15	-19.061	-563.56	956.39	7,410.30	7,333.99	76.31	97.109			
20,000.00	13,092.00	18,705.00	10,548.45	110.65	123.15	-19.061	-563.56	956.39	7,503.56	7,427.34	76.21	98.458			
20,100.00	13,092.00	18,705.00	10,548.45	112.07	123.15	-19.061	-563.56	956.39	7,596.99	7,520.87	76.12	99.803			
20,200.00	13,092.00	18,705.00	10,548.45	113.49	123.15	-19.061	-563.56	956.39	7,690.59	7,614.55	76.04	101.144			
20,300.00	13,092.00	18,705.00	10,548.45	114.91	123.15	-19.061	-563.56	956.39	7,784.34	7,708.38	75.96	102.481			
20,400.00	13,092.00	18,705.00	10,548.45	116.34	123.15	-19.061	-563.56	956.39	7,878.25	7,802.36	75.89	103.814			
20,500.00	13,092.00	18,705.00	10,548.45	117.76	123.15	-19.061	-563.56	956.39	7,972.31	7,896.49	75.82	105.142			
20,600.00	13,092.00	18,705.00	10,548.45	119.18	123.15	-19.061	-563.56	956.39	8,066.51	7,990.74	75.77	106.465			
20,700.00	13,092.00	18,705.00	10,548.45	120.60	123.15	-19.061	-563.56	956.39	8,160.85	8,085.14	75.71	107.784			
20,800.00	13,092.00	18,705.00	10,548.45	122.03	123.15	-19.061	-563.56	956.39	8,255.32	8,179.65	75.67	109.098			
20,900.00	13,092.00	18,705.00	10,548.45	123.45	123.15	-19.061	-563.56	956.39	8,349.92	8,274.30	75.63	110.407			
21,000.00	13,092.00	18,705.00	10,548.45	124.87	123.15	-19.061	-563.56	956.39	8,444.65	8,369.06	75.59	111.711			
21,100.00	13,092.00	18,705.00	10,548.45	126.30	123.15	-19.061	-563.56	956.39	8,539.50	8,463.93	75.56	113.010			
21,200.00	13,092.00	18,705.00	10,548.45	127.72	123.15	-19.061	-563.56	956.39	8,634.46	8,558.92	75.54	114.303			
21,300.00	13,092.00	18,705.00	10,548.45	129.15	123.15	-19.061	-563.56	956.39	8,729.53	8,654.01	75.52	115.591			
21,400.00	13,092.00	18,705.00	10,548.45	130.57	123.15	-19.061	-563.56	956.39	8,824.72	8,749.21	75.51	116.874			
21,500.00	13,092.00	18,705.00	10,548.45	132.00	123.15	-19.061	-563.56	956.39	8,920.01	8,844.51	75.50	118.151			
21,600.00	13,092.00	18,705.00	10,548.45	133.42	123.15	-19.061	-563.56	956.39	9,015.40	8,939.90	75.49	119.423			
21,700.00	13,092.00	18,705.00	10,548.45	134.85	123.15	-19.061	-563.56	956.39	9,110.89	9,035.40	75.49	120.689			
21,800.00	13,092.00	18,705.00	10,548.45	136.27	123.15	-19.061	-563.56	956.39	9,206.47	9,130.98	75.49	121.949			
21,900.00	13,092.00	18,705.00	10,548.45	137.70	123.15	-19.061	-563.56	956.39	9,302.15	9,226.65	75.50	123.204			
22,000.00	13,092.00	18,705.00	10,548.45	139.12	123.15	-19.061	-563.56	956.39	9,397.92	9,322.40	75.51	124.453			
22,100.00	13,092.00	18,705.00	10,548.45	140.55	123.15	-19.061	-563.56	956.39	9,493.77	9,418.24	75.53	125.696			
22,200.00	13,092.00	18,705.00	10,548.45	141.98	123.15	-19.061	-563.56	956.39	9,589.71	9,514.16	75.55	126.933			
22,300.00	13,092.00	18,705.00	10,548.45	143.40	123.15	-19.061	-563.56	956.39	9,685.74	9,610.16	75.57	128.164			
22,400.00	13,092.00	18,705.00	10,548.45	144.83	123.15	-19.061	-563.56	956.39	9,781.84	9,706.24	75.60	129.389			
22,500.00	13,092.00	18,705.00	10,548.45	146.26	123.15	-19.061	-563.56	956.39	9,878.02	9,802.39	75.63	130.608			
22,600.00	13,092.00	18,705.00	10,548.45	147.69	123.15	-19.061	-563.56	956.39	9,974.27	9,898.61	75.67	131.821			
22,700.00	13,092.00	18,705.00	10,548.45	149.11	123.15	-19.061	-563.56	956.39	10,070.60	9,994.90	75.70	133.028			
22,728.24	13,092.00	18,705.00	10,548.45	149.52	123.15	-19.061	-563.56	956.39	10,097.82	10,022.11	75.71	133.368			

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> Cattleman Fed Com 4 - Cattleman Fed Com 204H - OH / 69917 - Surveys H&P 656)													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 175-MWD+HRGM													<b>Offset Well Error:</b> 1.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
0.00	0.00	97.91	56.91	1.00	1.16	6.884	7,816.61	943.64	7,873.57				
100.00	100.00	221.27	180.26	1.08	1.76	6.885	7,815.29	943.66	7,872.46	7,869.62	2.84	2,767.849	
200.00	200.00	289.60	248.59	1.60	2.28	6.884	7,814.74	943.54	7,871.64	7,867.76	3.88	2,026.988	
300.00	300.00	358.00	316.99	2.01	2.84	6.883	7,814.48	943.28	7,871.23	7,866.37	4.85	1,621.993	
393.35	393.35	434.37	393.35	2.33	3.08	6.882	7,814.42	943.13	7,871.13	7,865.71	5.41	1,454.003	
400.00	400.00	439.81	398.80	2.35	3.10	6.882	7,814.42	943.14	7,871.13	7,865.67	5.45	1,443.211	
500.00	500.00	521.70	480.68	2.65	3.36	6.884	7,814.48	943.51	7,871.26	7,865.24	6.02	1,308.313	
600.00	600.00	617.98	576.97	2.93	3.83	6.890	7,814.66	944.30	7,871.54	7,864.79	6.75	1,165.854	
700.00	700.00	717.85	676.83	3.18	4.35	6.895	7,814.88	944.97	7,871.84	7,864.32	7.52	1,046.758	
800.00	800.00	809.00	767.98	3.41	4.53	6.900	7,815.11	945.72	7,872.18	7,864.27	7.92	994.366	
900.00	900.00	903.33	862.31	3.64	4.84	6.906	7,815.42	946.54	7,872.62	7,864.19	8.44	932.836	
1,000.00	1,000.00	990.00	948.97	3.85	5.13	6.908	7,815.82	946.99	7,873.15	7,864.22	8.93	881.933	
1,100.00	1,100.00	1,068.93	1,027.90	4.05	5.37	6.910	7,816.37	947.22	7,873.89	7,864.52	9.37	840.654	
1,200.00	1,200.00	1,145.00	1,103.96	4.24	5.61	6.909	7,817.20	947.30	7,874.97	7,865.18	9.79	804.298	
1,300.00	1,300.00	1,233.00	1,191.96	4.43	5.91	6.907	7,818.40	947.07	7,876.29	7,865.99	10.30	764.734	
1,400.00	1,400.00	2,095.00	2,052.02	4.61	15.84	6.990	7,790.79	955.22	7,876.17	7,860.49	15.68	502.375	
1,500.00	1,500.00	2,095.00	2,052.02	4.78	15.84	6.990	7,790.79	955.22	7,868.52	7,852.66	15.86	496.062	
1,600.00	1,599.98	2,095.00	2,052.02	4.98	15.84	-163.024	7,790.79	955.22	7,863.80	7,847.75	16.05	489.895	
1,620.70	1,620.67	2,095.00	2,052.02	4.99	15.84	-163.026	7,790.79	955.22	7,863.40	7,847.34	16.06	489.513	
1,700.00	1,699.89	2,178.97	2,135.54	5.07	16.27	-162.991	7,783.87	960.24	7,860.58	7,843.10	17.47	449.884	
1,800.00	1,799.81	2,200.56	2,157.03	5.23	16.39	-162.979	7,782.55	962.01	7,859.56	7,841.59	17.97	437.288	
1,846.14	1,845.91	2,210.52	2,166.93	5.31	16.45	-162.973	7,782.01	962.89	7,859.43	7,841.21	18.21	431.512	
1,900.00	1,899.72	2,285.00	2,240.93	5.41	16.96	-162.920	7,779.28	970.82	7,860.70	7,841.21	19.49	403.295	
1,924.74	1,924.44	2,285.00	2,240.93	5.46	16.96	-162.920	7,779.28	970.82	7,860.66	7,841.13	19.54	402.316	
2,000.00	1,999.63	2,285.00	2,240.93	5.60	16.96	-162.920	7,779.28	970.82	7,861.02	7,841.34	19.68	399.405	
2,100.00	2,099.54	2,285.00	2,240.93	5.80	16.96	-162.920	7,779.28	970.82	7,862.62	7,842.74	19.88	395.491	
2,200.00	2,199.45	2,285.00	2,240.93	6.02	16.96	-162.920	7,779.28	970.82	7,865.48	7,845.40	20.09	391.582	
2,300.00	2,299.36	2,285.00	2,240.93	6.24	16.96	-162.920	7,779.28	970.82	7,869.62	7,849.32	20.30	387.704	
2,400.00	2,399.27	2,285.00	2,240.93	6.47	16.96	-162.920	7,779.28	970.82	7,875.02	7,854.50	20.51	383.875	
2,500.00	2,499.18	2,375.73	2,331.09	6.72	17.65	-162.856	7,778.73	980.80	7,879.93	7,857.37	22.56	349.333	
2,600.00	2,599.10	2,405.26	2,360.49	6.96	17.93	-162.839	7,779.14	983.58	7,886.53	7,863.15	23.38	337.308	
2,700.00	2,699.01	2,473.00	2,427.98	7.22	18.74	-162.807	7,781.21	989.06	7,894.33	7,869.34	24.99	315.933	
2,800.00	2,798.92	2,473.00	2,427.98	7.48	18.74	-162.807	7,781.21	989.06	7,902.41	7,877.19	25.22	313.335	
2,900.00	2,898.83	2,540.88	2,495.61	7.74	18.93	-162.779	7,784.05	994.11	7,911.45	7,885.75	25.70	307.834	
3,000.00	2,998.74	2,636.94	2,591.28	8.01	19.20	-162.736	7,788.02	1,001.83	7,920.58	7,894.29	26.29	301.310	
3,100.00	3,098.65	2,849.71	2,803.02	8.28	19.55	-162.621	7,795.19	1,021.41	7,929.22	7,902.32	26.91	294.702	
3,200.00	3,198.56	19,173.43	10,930.81	8.56	127.42	-73.869	-554.19	1,606.45	7,909.88	7,833.55	76.34	103.620	
3,300.00	3,298.47	19,171.93	10,930.90	8.84	127.40	-73.924	-552.70	1,606.49	7,811.84	7,735.38	76.46	102.165	
3,400.00	3,398.39	19,170.44	10,930.98	9.13	127.38	-73.980	-551.20	1,606.54	7,713.84	7,637.25	76.59	100.711	
3,500.00	3,498.30	19,168.94	10,931.06	9.41	127.36	-74.035	-549.71	1,606.59	7,615.90	7,539.17	76.73	99.257	
3,600.00	3,598.21	19,167.45	10,931.15	9.70	127.34	-74.090	-548.22	1,606.64	7,518.01	7,441.14	76.87	97.804	
3,700.00	3,698.12	19,165.95	10,931.23	9.99	127.32	-74.146	-546.72	1,606.68	7,420.17	7,343.16	77.01	96.351	
3,800.00	3,798.03	19,164.45	10,931.32	10.29	127.30	-74.201	-545.23	1,606.73	7,322.40	7,245.24	77.16	94.900	
3,900.00	3,897.94	19,162.96	10,931.40	10.58	127.28	-74.256	-543.74	1,606.78	7,224.68	7,147.37	77.31	93.449	
4,000.00	3,997.85	19,161.46	10,931.48	10.88	127.26	-74.312	-542.25	1,606.83	7,127.03	7,049.56	77.47	92.000	
4,100.00	4,097.76	19,159.97	10,931.57	11.18	127.24	-74.367	-540.75	1,606.88	7,029.44	6,951.81	77.63	90.552	
4,200.00	4,197.68	19,158.47	10,931.65	11.48	127.22	-74.422	-539.26	1,606.92	6,931.93	6,854.13	77.79	89.106	
4,300.00	4,297.59	19,156.97	10,931.74	11.78	127.20	-74.478	-537.77	1,606.97	6,834.48	6,756.51	77.97	87.661	
4,400.00	4,397.50	19,155.48	10,931.82	12.08	127.18	-74.533	-536.27	1,607.02	6,737.11	6,658.96	78.14	86.217	
4,500.00	4,497.41	19,153.98	10,931.90	12.39	127.16	-74.588	-534.78	1,607.07	6,639.81	6,561.49	78.32	84.776	
4,600.00	4,597.32	19,152.48	10,931.99	12.69	127.14	-74.644	-533.29	1,607.11	6,542.60	6,464.09	78.51	83.336	
4,700.00	4,697.23	19,150.99	10,932.07	13.00	127.12	-74.699	-531.79	1,607.16	6,445.47	6,366.77	78.70	81.899	

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





## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> Cattleman Fed Com 4 - Cattleman Fed Com 204H - OH / 69917 - Surveys H&P 656)												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 175-MWD+HRGM												<b>Offset Well Error:</b>	1.00 usft
<b>Rule Assigned:</b>												<b>Warning</b>	
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	
4,800.00	4,797.14	19,149.49	10,932.16	13.31	127.10	-74.754	-530.30	1,607.21	6,348.43	6,269.53	78.90	80.463	
4,900.00	4,897.05	19,148.00	10,932.24	13.62	127.08	-74.810	-528.81	1,607.26	6,251.48	6,172.38	79.10	79.030	
5,000.00	4,996.97	19,146.50	10,932.32	13.92	127.06	-74.865	-527.31	1,607.30	6,154.63	6,075.32	79.31	77.599	
5,100.00	5,096.88	19,145.00	10,932.41	14.23	127.04	-74.921	-525.82	1,607.35	6,057.89	5,978.36	79.53	76.171	
5,200.00	5,196.79	19,143.51	10,932.49	14.55	127.02	-74.976	-524.33	1,607.40	5,961.25	5,881.49	79.75	74.745	
5,300.00	5,296.70	19,142.01	10,932.58	14.86	127.00	-75.031	-522.84	1,607.45	5,864.72	5,784.73	79.99	73.322	
5,400.00	5,396.61	19,140.51	10,932.66	15.17	126.98	-75.087	-521.34	1,607.50	5,768.31	5,688.08	80.23	71.901	
5,500.00	5,496.52	19,139.02	10,932.74	15.48	126.96	-75.142	-519.85	1,607.54	5,672.02	5,591.55	80.47	70.484	
5,600.00	5,596.43	19,137.52	10,932.83	15.79	126.94	-75.198	-518.36	1,607.59	5,575.87	5,495.14	80.73	69.069	
5,700.00	5,696.34	19,136.03	10,932.91	16.11	126.92	-75.253	-516.86	1,607.64	5,479.85	5,398.85	80.99	67.658	
5,800.00	5,796.26	19,134.53	10,933.00	16.42	126.90	-75.309	-515.37	1,607.69	5,383.97	5,302.71	81.27	66.250	
5,900.00	5,896.17	19,133.03	10,933.08	16.74	126.88	-75.364	-513.88	1,607.73	5,288.25	5,206.70	81.55	64.845	
6,000.00	5,996.08	19,131.54	10,933.16	17.05	126.86	-75.419	-512.38	1,607.78	5,192.69	5,110.84	81.85	63.444	
6,100.00	6,095.99	19,130.04	10,933.25	17.37	126.84	-75.475	-510.89	1,607.83	5,097.30	5,015.15	82.15	62.047	
6,200.00	6,195.90	19,128.55	10,933.33	17.68	126.82	-75.530	-509.40	1,607.88	5,002.09	4,919.62	82.47	60.653	
6,300.00	6,295.81	19,127.05	10,933.42	18.00	126.80	-75.586	-507.90	1,607.92	4,907.07	4,824.26	82.80	59.263	
6,400.00	6,395.72	19,125.55	10,933.50	18.32	126.78	-75.641	-506.41	1,607.97	4,812.25	4,729.10	83.14	57.878	
6,500.00	6,495.63	19,124.06	10,933.59	18.63	126.76	-75.697	-504.92	1,608.02	4,717.64	4,634.13	83.50	56.496	
6,600.00	6,595.55	19,122.56	10,933.67	18.95	126.74	-75.752	-503.43	1,608.07	4,623.26	4,539.38	83.88	55.119	
6,700.00	6,695.46	19,121.06	10,933.75	19.27	126.72	-75.807	-501.94	1,608.12	4,529.12	4,444.85	84.27	53.747	
6,800.00	6,795.37	19,119.59	10,933.84	19.59	126.70	-75.863	-500.46	1,608.16	4,435.24	4,350.56	84.68	52.379	
6,900.00	6,895.28	19,118.09	10,933.92	19.91	126.68	-75.918	-498.96	1,608.21	4,341.62	4,256.52	85.10	51.016	
7,000.00	6,995.19	19,116.58	10,934.01	20.23	126.66	-75.974	-497.46	1,608.26	4,248.30	4,162.75	85.55	49.659	
7,100.00	7,095.10	19,115.06	10,934.09	20.54	126.64	-76.031	-495.94	1,608.31	4,155.29	4,069.27	86.02	48.307	
7,200.00	7,195.01	19,113.53	10,934.18	20.86	126.62	-76.087	-494.41	1,608.35	4,062.62	3,976.10	86.51	46.960	
7,300.00	7,294.92	19,111.98	10,934.27	21.18	126.59	-76.145	-492.87	1,608.40	3,970.29	3,883.26	87.03	45.620	
7,400.00	7,394.84	19,110.43	10,934.35	21.50	126.57	-76.202	-491.32	1,608.45	3,878.35	3,790.77	87.57	44.286	
7,500.00	7,494.75	19,108.86	10,934.44	21.82	126.55	-76.260	-489.76	1,608.50	3,786.81	3,698.66	88.15	42.959	
7,600.00	7,594.66	19,107.29	10,934.53	22.14	126.53	-76.319	-488.18	1,608.55	3,695.71	3,606.96	88.76	41.639	
7,700.00	7,694.57	19,105.70	10,934.62	22.46	126.51	-76.378	-486.60	1,608.59	3,605.09	3,515.69	89.40	40.327	
7,800.00	7,794.48	19,104.10	10,934.71	22.78	126.49	-76.437	-485.00	1,608.64	3,514.97	3,424.89	90.08	39.022	
7,900.00	7,894.39	19,102.48	10,934.80	23.10	126.47	-76.497	-483.39	1,608.69	3,425.40	3,334.60	90.79	37.727	
8,000.00	7,994.30	19,100.86	10,934.90	23.42	126.45	-76.558	-481.77	1,608.74	3,336.42	3,244.86	91.56	36.441	
8,100.00	8,094.21	19,099.22	10,934.99	23.75	126.42	-76.618	-480.13	1,608.79	3,248.08	3,155.71	92.37	35.165	
8,200.00	8,194.13	19,097.57	10,935.08	24.07	126.40	-76.680	-478.49	1,608.84	3,160.43	3,067.20	93.23	33.899	
8,300.00	8,294.04	19,095.91	10,935.18	24.39	126.38	-76.741	-476.83	1,608.89	3,073.54	2,979.40	94.15	32.646	
8,400.00	8,393.95	19,094.23	10,935.27	24.71	126.36	-76.803	-475.16	1,608.94	2,987.47	2,892.35	95.12	31.406	
8,500.00	8,493.86	19,092.55	10,935.37	25.03	126.33	-76.866	-473.47	1,608.99	2,902.29	2,806.12	96.17	30.180	
8,600.00	8,593.77	19,090.85	10,935.47	25.35	126.31	-76.929	-471.78	1,609.03	2,818.08	2,720.80	97.28	28.969	
8,700.00	8,693.68	19,089.13	10,935.57	25.67	126.29	-76.993	-470.07	1,609.08	2,734.94	2,636.47	98.47	27.775	
8,800.00	8,793.59	19,087.40	10,935.67	26.00	126.27	-77.057	-468.34	1,609.13	2,652.96	2,553.22	99.74	26.600	
8,900.00	8,893.50	19,085.66	10,935.77	26.32	126.24	-77.122	-466.61	1,609.18	2,572.25	2,471.16	101.09	25.445	
9,000.00	8,993.42	19,083.91	10,935.87	26.64	126.22	-77.187	-464.86	1,609.23	2,492.94	2,390.41	102.54	24.313	
9,100.00	9,093.33	19,082.14	10,935.97	26.96	126.20	-77.252	-463.09	1,609.28	2,415.17	2,311.09	104.08	23.205	
9,200.00	9,193.24	19,080.36	10,936.07	27.29	126.17	-77.319	-461.31	1,609.33	2,339.09	2,233.36	105.72	22.125	
9,300.00	9,293.15	19,078.56	10,936.18	27.61	126.15	-77.385	-459.52	1,609.38	2,264.86	2,157.39	107.47	21.075	
9,400.00	9,393.06	19,076.75	10,936.28	27.93	126.12	-77.453	-457.71	1,609.43	2,192.68	2,083.36	109.32	20.057	
9,500.00	9,492.97	19,074.93	10,936.39	28.25	126.10	-77.520	-455.89	1,609.48	2,122.76	2,011.47	111.28	19.075	
9,600.00	9,592.88	19,073.09	10,936.49	28.58	126.07	-77.589	-454.06	1,609.54	2,055.32	1,941.97	113.35	18.133	
9,700.00	9,692.79	19,071.24	10,936.60	28.90	126.05	-77.657	-452.21	1,609.59	1,990.63	1,875.11	115.51	17.233	
9,800.00	9,792.71	19,069.37	10,936.71	29.22	126.02	-77.727	-450.34	1,609.64	1,928.94	1,811.17	117.77	16.379	
9,900.00	9,892.62	19,067.48	10,936.82	29.55	126.00	-77.797	-448.46	1,609.69	1,870.58	1,750.47	120.11	15.574	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> Cattleman Fed Com 4 - Cattleman Fed Com 204H - OH / 69917 - Surveys H&P 656)												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 175-MWD+HRGM												<b>Offset Well Error:</b>	1.00 usft
<b>Rule Assigned:</b>												<b>Warning</b>	
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	
10,000.00	9,992.53	19,065.59	10,936.93	29.87	125.97	-77.867	-446.57	1,609.74	1,815.84	1,693.34	122.50	14.823	
10,100.00	10,092.44	19,063.67	10,937.04	30.19	125.95	-77.939	-444.66	1,609.79	1,765.08	1,640.14	124.94	14.128	
10,200.00	10,192.35	19,061.87	10,937.14	30.52	125.92	-78.005	-442.86	1,609.84	1,718.63	1,591.26	127.38	13.493	
10,300.00	10,292.26	19,059.87	10,937.26	30.84	125.90	-78.080	-440.86	1,609.89	1,676.87	1,547.09	129.78	12.921	
10,400.00	10,392.17	19,057.86	10,937.38	31.16	125.87	-78.154	-438.86	1,609.94	1,640.15	1,508.04	132.12	12.415	
10,500.00	10,492.08	19,055.85	10,937.50	31.49	125.84	-78.229	-436.85	1,609.99	1,608.82	1,474.48	134.33	11.976	
10,600.00	10,592.00	19,053.83	10,937.62	31.81	125.82	-78.304	-434.84	1,610.04	1,583.19	1,446.79	136.39	11.607	
10,700.00	10,691.91	19,051.81	10,937.73	32.13	125.79	-78.379	-432.82	1,610.10	1,563.54	1,425.29	138.25	11.310	
10,800.00	10,791.82	19,049.79	10,937.85	32.46	125.76	-78.454	-430.80	1,610.15	1,550.10	1,410.24	139.86	11.083	
10,900.00	10,891.73	19,047.76	10,937.97	32.78	125.73	-78.530	-428.78	1,610.20	1,543.04	1,401.84	141.20	10.928	
10,959.23	10,950.91	19,046.55	10,938.04	32.97	125.72	-78.575	-427.57	1,610.23	1,541.91	1,400.05	141.86	10.869 CC, ES	
11,000.00	10,991.64	19,045.72	10,938.09	33.11	125.71	-78.605	-426.74	1,610.25	1,542.45	1,400.20	142.25	10.843	
11,100.00	11,091.55	19,043.68	10,938.21	33.43	125.68	-78.681	-424.71	1,610.30	1,548.32	1,405.33	142.99	10.828 SF	
11,200.00	11,191.46	19,041.63	10,938.33	33.75	125.65	-78.757	-422.67	1,610.35	1,560.58	1,417.15	143.44	10.880	
11,300.00	11,291.37	19,039.58	10,938.45	34.08	125.62	-78.833	-420.62	1,610.40	1,579.10	1,435.51	143.59	10.997	
11,400.00	11,391.29	19,037.53	10,938.57	34.40	125.60	-78.910	-418.57	1,610.45	1,603.65	1,460.16	143.49	11.176	
11,500.00	11,491.20	19,035.47	10,938.69	34.73	125.57	-78.986	-416.51	1,610.50	1,633.95	1,490.80	143.15	11.414	
11,600.00	11,591.11	19,033.40	10,938.82	35.05	125.54	-79.063	-414.45	1,610.55	1,669.70	1,527.09	142.62	11.708	
11,700.00	11,691.02	19,031.33	10,938.94	35.38	125.51	-79.140	-412.38	1,610.60	1,710.56	1,568.65	141.92	12.053	
11,800.00	11,790.93	19,029.25	10,939.06	35.70	125.48	-79.217	-410.31	1,610.65	1,756.16	1,615.08	141.09	12.447	
11,900.00	11,890.84	19,027.17	10,939.18	36.03	125.46	-79.295	-408.23	1,610.69	1,806.16	1,665.99	140.17	12.886	
11,907.54	11,898.38	19,027.02	10,939.19	36.05	125.45	-79.300	-408.08	1,610.70	1,810.10	1,670.00	140.09	12.921	
12,000.00	11,990.80	19,023.36	10,939.41	36.33	125.40	-80.618	-404.43	1,610.78	1,860.40	1,721.25	139.15	13.370	
12,028.24	12,019.04	19,021.55	10,939.51	36.36	125.38	88.915	-402.62	1,610.82	1,876.49	1,737.65	138.84	13.516	
12,100.00	12,090.80	19,016.54	10,939.81	36.36	125.31	88.728	-397.62	1,610.93	1,918.66	1,780.65	138.02	13.902	
12,200.00	12,190.80	19,009.54	10,940.22	36.36	125.22	88.468	-390.64	1,611.09	1,980.26	1,843.38	136.88	14.467	
12,300.00	12,290.80	19,002.53	10,940.64	36.36	125.12	88.207	-383.64	1,611.24	2,044.87	1,909.11	135.76	15.062	
12,400.00	12,390.80	18,995.49	10,941.05	36.37	125.03	87.945	-376.62	1,611.38	2,112.22	1,977.55	134.68	15.684	
12,500.00	12,490.80	18,988.44	10,941.47	36.37	124.93	87.683	-369.58	1,611.52	2,182.06	2,048.44	133.63	16.329	
12,528.24	12,519.04	18,986.45	10,941.59	36.37	124.91	87.609	-367.59	1,611.56	2,202.21	2,068.87	133.34	16.516	
12,550.00	12,540.79	18,985.40	10,941.65	36.40	124.89	-89.628	-366.54	1,611.58	2,217.85	2,084.72	133.12	16.660	
12,600.00	12,590.61	18,986.72	10,941.58	36.63	124.91	-84.316	-367.86	1,611.55	2,254.13	2,121.43	132.69	16.987	
12,650.00	12,639.89	18,993.22	10,941.19	36.95	125.00	-78.800	-374.35	1,611.43	2,290.62	2,158.28	132.34	17.308	
12,700.00	12,688.24	19,004.87	10,940.50	37.29	125.15	-73.248	-385.98	1,611.19	2,327.02	2,194.95	132.07	17.620	
12,750.00	12,735.30	19,021.59	10,939.51	37.62	125.38	-67.831	-402.66	1,610.82	2,362.99	2,231.11	131.88	17.918	
12,800.00	12,780.72	19,043.25	10,938.24	37.96	125.67	-62.701	-424.28	1,610.31	2,398.19	2,266.42	131.77	18.200	
12,850.00	12,824.15	19,070.54	10,936.64	38.29	126.04	-57.948	-451.51	1,609.60	2,432.28	2,300.54	131.75	18.462	
12,900.00	12,865.26	19,103.55	10,934.74	38.60	126.48	-53.644	-484.45	1,608.66	2,464.93	2,333.11	131.82	18.700	
12,950.00	12,903.73	19,137.15	10,932.85	38.90	126.93	-49.913	-517.98	1,607.60	2,495.79	2,363.86	131.93	18.917	
13,000.00	12,939.27	19,170.21	10,930.99	39.18	127.37	-46.732	-550.97	1,606.55	2,524.64	2,392.56	132.08	19.114	
13,050.00	12,971.62	19,177.00	10,930.61	39.43	127.47	-44.374	-557.75	1,606.33	2,551.38	2,419.35	132.03	19.324	
13,100.00	13,000.52	19,177.00	10,930.61	39.65	127.47	-42.413	-557.75	1,606.33	2,576.16	2,444.21	131.95	19.524	
13,150.00	13,025.76	19,177.00	10,930.61	39.85	127.47	-40.722	-557.75	1,606.33	2,598.86	2,466.97	131.89	19.705	
13,200.00	13,047.14	19,177.00	10,930.61	40.02	127.47	-39.277	-557.75	1,606.33	2,619.36	2,487.51	131.85	19.867	
13,250.00	13,064.50	19,177.00	10,930.61	40.15	127.47	-38.056	-557.75	1,606.33	2,637.56	2,505.73	131.82	20.008	
13,300.00	13,077.71	19,177.00	10,930.61	40.26	127.47	-37.040	-557.75	1,606.33	2,653.37	2,521.55	131.82	20.129	
13,350.00	13,086.67	19,177.00	10,930.61	40.33	127.47	-36.214	-557.75	1,606.33	2,666.70	2,534.87	131.83	20.228	
13,400.00	13,091.30	19,177.00	10,930.61	40.38	127.47	-35.565	-557.75	1,606.33	2,677.51	2,545.66	131.86	20.306	
13,428.24	13,092.00	19,177.00	10,930.61	40.39	127.47	-35.273	-557.75	1,606.33	2,682.48	2,550.64	131.84	20.347	
13,500.00	13,092.00	19,177.00	10,930.61	40.40	127.47	-35.273	-557.75	1,606.33	2,694.97	2,563.21	131.76	20.454	
13,600.00	13,092.00	19,177.00	10,930.61	40.43	127.47	-35.273	-557.75	1,606.33	2,715.44	2,583.90	131.54	20.643	
13,700.00	13,092.00	19,177.00	10,930.61	40.46	127.47	-35.273	-557.75	1,606.33	2,739.42	2,608.17	131.25	20.872	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> Cattleman Fed Com 4 - Cattleman Fed Com 204H - OH / 69917 - Surveys H&P 656)												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 175-MWD+HRGM												<b>Offset Well Error:</b>	1.00 usft
<b>Reference</b>												<b>Rule Assigned:</b>	
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
				<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
13,800.00	13,092.00	19,177.00	10,930.61	40.50	127.47	-35.273	-557.75	1,606.33	2,766.80	2,635.93	130.88	21.140	
13,900.00	13,092.00	19,177.00	10,930.61	40.53	127.47	-35.273	-557.75	1,606.33	2,797.50	2,667.06	130.43	21.448	
14,000.00	13,092.00	19,177.00	10,930.61	40.58	127.47	-35.273	-557.75	1,606.33	2,831.39	2,701.47	129.92	21.793	
14,100.00	13,092.00	19,177.00	10,930.61	40.63	127.47	-35.273	-557.75	1,606.33	2,868.37	2,739.03	129.35	22.176	
14,200.00	13,092.00	19,177.00	10,930.61	40.69	127.47	-35.273	-557.75	1,606.33	2,908.32	2,779.61	128.71	22.595	
14,300.00	13,092.00	19,177.00	10,930.61	40.76	127.47	-35.273	-557.75	1,606.33	2,951.12	2,823.09	128.03	23.050	
14,400.00	13,092.00	19,177.00	10,930.61	40.85	127.47	-35.273	-557.75	1,606.33	2,996.65	2,869.34	127.31	23.538	
14,500.00	13,092.00	19,177.00	10,930.61	40.95	127.47	-35.273	-557.75	1,606.33	3,044.78	2,918.24	126.55	24.061	
14,600.00	13,092.00	19,177.00	10,930.61	41.10	127.47	-35.273	-557.75	1,606.33	3,095.40	2,969.65	125.75	24.615	
14,700.00	13,092.00	19,177.00	10,930.61	41.29	127.47	-35.273	-557.75	1,606.33	3,148.38	3,023.44	124.93	25.201	
14,800.00	13,092.00	19,177.00	10,930.61	41.57	127.47	-35.273	-557.75	1,606.33	3,203.60	3,079.51	124.09	25.816	
14,900.00	13,092.00	19,177.00	10,930.61	41.99	127.47	-35.273	-557.75	1,606.33	3,260.96	3,137.72	123.24	26.461	
15,000.00	13,092.00	19,177.00	10,930.61	42.60	127.47	-35.273	-557.75	1,606.33	3,320.34	3,197.97	122.37	27.134	
15,100.00	13,092.00	19,177.00	10,930.61	43.42	127.47	-35.273	-557.75	1,606.33	3,381.63	3,260.13	121.50	27.833	
15,200.00	13,092.00	19,177.00	10,930.61	44.43	127.47	-35.273	-557.75	1,606.33	3,444.74	3,324.12	120.62	28.559	
15,300.00	13,092.00	19,177.00	10,930.61	45.56	127.47	-35.273	-557.75	1,606.33	3,509.56	3,389.81	119.75	29.309	
15,400.00	13,092.00	19,177.00	10,930.61	46.76	127.47	-35.273	-557.75	1,606.33	3,576.00	3,457.13	118.87	30.082	
15,500.00	13,092.00	19,177.00	10,930.61	48.01	127.47	-35.273	-557.75	1,606.33	3,643.98	3,525.97	118.01	30.879	
15,600.00	13,092.00	19,177.00	10,930.61	49.30	127.47	-35.273	-557.75	1,606.33	3,713.40	3,596.25	117.15	31.697	
15,700.00	13,092.00	19,177.00	10,930.61	50.61	127.47	-35.273	-557.75	1,606.33	3,784.20	3,667.88	116.31	32.535	
15,800.00	13,092.00	19,177.00	10,930.61	51.93	127.47	-35.273	-557.75	1,606.33	3,856.28	3,740.80	115.48	33.394	
15,900.00	13,092.00	19,177.00	10,930.61	53.27	127.47	-35.273	-557.75	1,606.33	3,929.59	3,814.93	114.66	34.271	
16,000.00	13,092.00	19,177.00	10,930.61	54.61	127.47	-35.273	-557.75	1,606.33	4,004.06	3,890.20	113.86	35.166	
16,100.00	13,092.00	19,177.00	10,930.61	55.97	127.47	-35.273	-557.75	1,606.33	4,079.62	3,966.54	113.08	36.079	
16,200.00	13,092.00	19,177.00	10,930.61	57.33	127.47	-35.273	-557.75	1,606.33	4,156.21	4,043.90	112.31	37.007	
16,300.00	13,092.00	19,177.00	10,930.61	58.69	127.47	-35.273	-557.75	1,606.33	4,233.77	4,122.22	111.56	37.951	
16,400.00	13,092.00	19,177.00	10,930.61	60.06	127.47	-35.273	-557.75	1,606.33	4,312.27	4,201.44	110.83	38.910	
16,500.00	13,092.00	19,177.00	10,930.61	61.44	127.47	-35.273	-557.75	1,606.33	4,391.63	4,281.52	110.11	39.883	
16,600.00	13,092.00	19,177.00	10,930.61	62.81	127.47	-35.273	-557.75	1,606.33	4,471.82	4,362.40	109.42	40.868	
16,700.00	13,092.00	19,177.00	10,930.61	64.20	127.47	-35.273	-557.75	1,606.33	4,552.80	4,444.05	108.75	41.867	
16,800.00	13,092.00	19,177.00	10,930.61	65.58	127.47	-35.273	-557.75	1,606.33	4,634.52	4,526.43	108.09	42.877	
16,900.00	13,092.00	19,177.00	10,930.61	66.97	127.47	-35.273	-557.75	1,606.33	4,716.94	4,609.49	107.45	43.898	
17,000.00	13,092.00	19,177.00	10,930.61	68.36	127.47	-35.273	-557.75	1,606.33	4,800.04	4,693.20	106.84	44.929	
17,100.00	13,092.00	19,177.00	10,930.61	69.75	127.47	-35.273	-557.75	1,606.33	4,883.76	4,777.53	106.24	45.971	
17,200.00	13,092.00	19,177.00	10,930.61	71.14	127.47	-35.273	-557.75	1,606.33	4,968.09	4,862.43	105.66	47.022	
17,300.00	13,092.00	19,177.00	10,930.61	72.54	127.47	-35.273	-557.75	1,606.33	5,052.99	4,947.90	105.09	48.081	
17,400.00	13,092.00	19,177.00	10,930.61	73.94	127.47	-35.273	-557.75	1,606.33	5,138.43	5,033.89	104.55	49.149	
17,500.00	13,092.00	19,177.00	10,930.61	75.34	127.47	-35.273	-557.75	1,606.33	5,224.39	5,120.37	104.02	50.225	
17,600.00	13,092.00	19,177.00	10,930.61	76.74	127.47	-35.273	-557.75	1,606.33	5,310.84	5,207.33	103.51	51.307	
17,700.00	13,092.00	19,177.00	10,930.61	78.14	127.47	-35.273	-557.75	1,606.33	5,397.76	5,294.75	103.02	52.397	
17,800.00	13,092.00	19,177.00	10,930.61	79.55	127.47	-35.273	-557.75	1,606.33	5,485.13	5,382.59	102.54	53.492	
17,900.00	13,092.00	19,177.00	10,930.61	80.95	127.47	-35.273	-557.75	1,606.33	5,572.92	5,470.84	102.08	54.594	
18,000.00	13,092.00	19,177.00	10,930.61	82.36	127.47	-35.273	-557.75	1,606.33	5,661.11	5,559.48	101.63	55.701	
18,100.00	13,092.00	19,177.00	10,930.61	83.76	127.47	-35.273	-557.75	1,606.33	5,749.70	5,648.49	101.20	56.813	
18,200.00	13,092.00	19,177.00	10,930.61	85.17	127.47	-35.273	-557.75	1,606.33	5,838.65	5,737.86	100.79	57.929	
18,300.00	13,092.00	19,177.00	10,930.61	86.58	127.47	-35.273	-557.75	1,606.33	5,927.95	5,827.56	100.39	59.050	
18,400.00	13,092.00	19,177.00	10,930.61	87.99	127.47	-35.273	-557.75	1,606.33	6,017.59	5,917.59	100.00	60.175	
18,500.00	13,092.00	19,177.00	10,930.61	89.40	127.47	-35.273	-557.75	1,606.33	6,107.55	6,007.92	99.63	61.303	
18,600.00	13,092.00	19,177.00	10,930.61	90.81	127.47	-35.273	-557.75	1,606.33	6,197.82	6,098.55	99.27	62.434	
18,700.00	13,092.00	19,177.00	10,930.61	92.23	127.47	-35.273	-557.75	1,606.33	6,288.38	6,189.46	98.92	63.568	
18,800.00	13,092.00	19,177.00	10,930.61	93.64	127.47	-35.273	-557.75	1,606.33	6,379.22	6,280.63	98.59	64.705	
18,900.00	13,092.00	19,177.00	10,930.61	95.06	127.47	-35.273	-557.75	1,606.33	6,470.34	6,372.07	98.27	65.844	

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





## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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:		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				
19,000.00	13,092.00	19,177.00	10,930.61	96.47	127.47	-35.273	-557.75	1,606.33	6,561.71	6,463.75	97.96	66.985				
19,100.00	13,092.00	19,177.00	10,930.61	97.89	127.47	-35.273	-557.75	1,606.33	6,653.33	6,555.67	97.66	68.128				
19,200.00	13,092.00	19,177.00	10,930.61	99.30	127.47	-35.273	-557.75	1,606.33	6,745.19	6,647.82	97.37	69.272				
19,300.00	13,092.00	19,177.00	10,930.61	100.72	127.47	-35.273	-557.75	1,606.33	6,837.28	6,740.19	97.10	70.418				
19,400.00	13,092.00	19,177.00	10,930.61	102.14	127.47	-35.273	-557.75	1,606.33	6,929.59	6,832.76	96.83	71.564				
19,500.00	13,092.00	19,177.00	10,930.61	103.55	127.47	-35.273	-557.75	1,606.33	7,022.11	6,925.53	96.58	72.711				
19,600.00	13,092.00	19,177.00	10,930.61	104.97	127.47	-35.273	-557.75	1,606.33	7,114.83	7,018.50	96.33	73.859				
19,700.00	13,092.00	19,177.00	10,930.61	106.39	127.47	-35.273	-557.75	1,606.33	7,207.74	7,111.65	96.09	75.007				
19,800.00	13,092.00	19,177.00	10,930.61	107.81	127.47	-35.273	-557.75	1,606.33	7,300.85	7,204.98	95.87	76.155				
19,900.00	13,092.00	19,177.00	10,930.61	109.23	127.47	-35.273	-557.75	1,606.33	7,394.13	7,298.48	95.65	77.303				
20,000.00	13,092.00	19,177.00	10,930.61	110.65	127.47	-35.273	-557.75	1,606.33	7,487.58	7,392.14	95.44	78.451				
20,100.00	13,092.00	19,177.00	10,930.61	112.07	127.47	-35.273	-557.75	1,606.33	7,581.21	7,485.96	95.24	79.598				
20,200.00	13,092.00	19,177.00	10,930.61	113.49	127.47	-35.273	-557.75	1,606.33	7,674.99	7,579.94	95.05	80.744				
20,300.00	13,092.00	19,177.00	10,930.61	114.91	127.47	-35.273	-557.75	1,606.33	7,768.93	7,674.06	94.87	81.890				
20,400.00	13,092.00	19,177.00	10,930.61	116.34	127.47	-35.273	-557.75	1,606.33	7,863.02	7,768.32	94.70	83.035				
20,500.00	13,092.00	19,177.00	10,930.61	117.76	127.47	-35.273	-557.75	1,606.33	7,957.25	7,862.72	94.53	84.179				
20,600.00	13,092.00	19,177.00	10,930.61	119.18	127.47	-35.273	-557.75	1,606.33	8,051.62	7,957.26	94.37	85.321				
20,700.00	13,092.00	19,177.00	10,930.61	120.60	127.47	-35.273	-557.75	1,606.33	8,146.13	8,051.91	94.22	86.462				
20,800.00	13,092.00	19,177.00	10,930.61	122.03	127.47	-35.273	-557.75	1,606.33	8,240.77	8,146.69	94.07	87.602				
20,900.00	13,092.00	19,177.00	10,930.61	123.45	127.47	-35.273	-557.75	1,606.33	8,335.53	8,241.59	93.93	88.740				
21,000.00	13,092.00	19,177.00	10,930.61	124.87	127.47	-35.273	-557.75	1,606.33	8,430.41	8,336.61	93.80	89.876				
21,100.00	13,092.00	19,177.00	10,930.61	126.30	127.47	-35.273	-557.75	1,606.33	8,525.41	8,431.73	93.68	91.010				
21,200.00	13,092.00	19,177.00	10,930.61	127.72	127.47	-35.273	-557.75	1,606.33	8,620.52	8,526.96	93.56	92.143				
21,300.00	13,092.00	19,177.00	10,930.61	129.15	127.47	-35.273	-557.75	1,606.33	8,715.74	8,622.30	93.44	93.273				
21,400.00	13,092.00	19,177.00	10,930.61	130.57	127.47	-35.273	-557.75	1,606.33	8,811.07	8,717.73	93.34	94.401				
21,500.00	13,092.00	19,177.00	10,930.61	132.00	127.47	-35.273	-557.75	1,606.33	8,906.50	8,813.26	93.24	95.526				
21,600.00	13,092.00	19,177.00	10,930.61	133.42	127.47	-35.273	-557.75	1,606.33	9,002.03	8,908.89	93.14	96.650				
21,700.00	13,092.00	19,177.00	10,930.61	134.85	127.47	-35.273	-557.75	1,606.33	9,097.65	9,004.60	93.05	97.770				
21,800.00	13,092.00	19,177.00	10,930.61	136.27	127.47	-35.273	-557.75	1,606.33	9,193.37	9,100.40	92.97	98.888				
21,900.00	13,092.00	19,177.00	10,930.61	137.70	127.47	-35.273	-557.75	1,606.33	9,289.18	9,196.29	92.89	100.004				
22,000.00	13,092.00	19,177.00	10,930.61	139.12	127.47	-35.273	-557.75	1,606.33	9,385.08	9,292.26	92.81	101.117				
22,100.00	13,092.00	19,177.00	10,930.61	140.55	127.47	-35.273	-557.75	1,606.33	9,481.06	9,388.31	92.75	102.226				
22,200.00	13,092.00	19,177.00	10,930.61	141.98	127.47	-35.273	-557.75	1,606.33	9,577.12	9,484.44	92.68	103.333				
22,300.00	13,092.00	19,177.00	10,930.61	143.40	127.47	-35.273	-557.75	1,606.33	9,673.26	9,580.64	92.62	104.437				
22,400.00	13,092.00	19,177.00	10,930.61	144.83	127.47	-35.273	-557.75	1,606.33	9,769.48	9,676.91	92.57	105.538				
22,500.00	13,092.00	19,177.00	10,930.61	146.26	127.47	-35.273	-557.75	1,606.33	9,865.78	9,773.26	92.52	106.636				
22,600.00	13,092.00	19,177.00	10,930.61	147.69	127.47	-35.273	-557.75	1,606.33	9,962.15	9,869.67	92.47	107.730				
22,700.00	13,092.00	19,177.00	10,930.61	149.11	127.47	-35.273	-557.75	1,606.33	10,058.59	9,966.15	92.43	108.822				
22,728.24	13,092.00	19,177.00	10,930.61	149.52	127.47	-35.273	-557.75	1,606.33	10,085.84	9,993.41	92.42	109.130				

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> Cattlemen Fed Com - 403H - OH / 68704 - Surveys (H&P 656)													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 188-MWD+HDGM													<b>Offset Well Error:</b> 1.00 usft
<b>Rule Assigned:</b>													
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	62.87	9.87	1.00	1.00	-0.343	7,906.64	-47.30	7,906.79				
100.00	100.00	181.49	128.49	1.08	1.04	-0.346	7,906.35	-47.80	7,906.54	7,904.42	2.12	3,725.091	
200.00	200.00	275.59	222.59	1.60	1.17	-0.351	7,906.03	-48.48	7,906.21	7,903.45	2.77	2,857.692	
300.00	300.00	368.22	315.21	2.01	1.37	-0.357	7,905.80	-49.29	7,905.97	7,902.59	3.38	2,339.782	
400.00	400.00	460.73	407.72	2.35	1.61	-0.363	7,905.67	-50.11	7,905.83	7,901.86	3.97	1,993.128	
500.00	500.00	556.53	503.52	2.65	1.90	-0.369	7,905.61	-50.92	7,905.77	7,901.22	4.55	1,737.761	
600.00	600.00	658.21	605.19	2.93	2.21	-0.375	7,905.54	-51.80	7,905.72	7,900.58	5.14	1,538.040	
700.00	700.00	755.66	702.64	3.18	2.53	-0.382	7,905.48	-52.69	7,905.65	7,899.95	5.71	1,384.972	
747.87	747.87	800.90	747.87	3.29	2.68	-0.385	7,905.47	-53.12	7,905.65	7,899.68	5.97	1,324.198	
800.00	800.00	850.16	797.13	3.41	2.84	-0.389	7,905.47	-53.61	7,905.66	7,899.40	6.26	1,263.407	
900.00	900.00	950.46	897.43	3.64	3.18	-0.396	7,905.51	-54.64	7,905.70	7,898.89	6.82	1,159.504	
1,000.00	1,000.00	1,053.86	1,000.82	3.85	3.54	-0.404	7,905.52	-55.70	7,905.71	7,898.33	7.38	1,070.852	
1,020.62	1,020.62	1,075.17	1,022.13	3.89	3.61	-0.405	7,905.51	-55.92	7,905.71	7,898.21	7.50	1,054.452	
1,100.00	1,100.00	1,139.86	1,086.82	4.05	3.83	-0.411	7,905.58	-56.64	7,905.80	7,897.92	7.88	1,003.194	
1,200.00	1,200.00	1,239.62	1,186.56	4.24	4.18	-0.421	7,905.74	-58.05	7,905.96	7,897.55	8.42	939.019	
1,300.00	1,300.00	1,337.26	1,284.20	4.43	4.50	-0.426	7,905.92	-58.84	7,906.15	7,897.22	8.93	885.331	
1,400.00	1,400.00	1,425.00	1,371.94	4.61	4.80	-0.423	7,906.11	-58.39	7,906.37	7,896.97	9.40	840.836	
1,500.00	1,500.00	1,494.26	1,441.19	4.78	5.02	-0.417	7,906.45	-57.51	7,906.88	7,897.07	9.80	806.597	
1,600.00	1,599.98	1,557.11	1,504.03	4.98	5.23	-170.388	7,907.07	-56.56	7,909.57	7,899.38	10.20	775.739	
1,620.70	1,620.67	1,570.11	1,517.03	4.99	5.27	-170.384	7,907.24	-56.35	7,910.62	7,900.37	10.25	771.694	
1,700.00	1,699.89	1,614.00	1,560.91	5.07	5.41	-170.381	7,907.89	-55.58	7,915.10	7,904.62	10.48	755.356	
1,800.00	1,799.81	1,711.15	1,658.02	5.23	5.74	-170.373	7,909.57	-53.80	7,920.97	7,910.01	10.96	722.843	
1,900.00	1,899.72	1,803.00	1,749.85	5.41	6.04	-170.365	7,911.29	-52.08	7,926.98	7,915.54	11.44	692.819	
2,000.00	1,999.63	1,852.37	1,799.19	5.60	6.21	-170.359	7,912.40	-51.00	7,933.35	7,921.55	11.80	672.470	
2,100.00	2,099.54	1,903.44	1,850.22	5.80	6.38	-170.352	7,913.85	-49.57	7,940.33	7,928.16	12.17	652.446	
2,200.00	2,199.45	1,993.00	1,939.66	6.02	6.69	-170.332	7,917.17	-46.26	7,948.11	7,935.42	12.69	626.549	
2,300.00	2,299.36	2,018.59	1,965.20	6.24	6.78	-170.325	7,918.25	-45.17	7,956.11	7,943.12	12.99	612.444	
2,400.00	2,399.27	2,123.82	2,070.23	6.47	7.14	-170.296	7,922.66	-40.39	7,964.42	7,950.84	13.58	586.400	
2,500.00	2,499.18	2,220.23	2,166.44	6.72	7.47	-170.267	7,926.65	-35.65	7,972.69	7,958.54	14.15	563.389	
2,600.00	2,599.10	2,305.70	2,251.71	6.96	7.77	-170.238	7,930.31	-31.11	7,981.09	7,966.40	14.69	543.270	
2,700.00	2,699.01	2,390.39	2,336.18	7.22	8.07	-170.208	7,934.09	-26.27	7,989.68	7,974.45	15.23	524.449	
2,800.00	2,798.92	2,472.66	2,418.21	7.48	8.36	-170.176	7,937.93	-21.33	7,998.47	7,982.70	15.78	506.976	
2,900.00	2,898.83	2,561.00	2,506.27	7.74	8.67	-170.141	7,942.25	-15.80	8,007.49	7,991.14	16.35	489.876	
3,000.00	2,998.74	2,713.92	2,658.69	8.01	9.21	-170.076	7,949.32	-5.65	8,016.27	7,999.12	17.16	467.280	
3,100.00	3,098.65	2,882.07	2,826.33	8.28	9.81	-170.003	7,955.50	5.80	8,023.99	8,005.96	18.02	445.161	
3,200.00	3,198.56	2,954.68	2,898.76	8.56	10.07	-169.974	7,958.09	10.27	8,031.70	8,013.14	18.55	432.886	
3,300.00	3,298.47	3,033.00	2,976.90	8.84	10.35	-169.947	7,961.15	14.64	8,039.74	8,020.63	19.11	420.784	
3,400.00	3,398.39	3,106.28	3,050.04	9.13	10.61	-169.927	7,964.23	17.93	8,048.08	8,028.44	19.64	409.711	
3,500.00	3,498.30	3,185.86	3,129.51	9.41	10.89	-169.915	7,967.77	20.22	8,056.67	8,036.47	20.21	398.735	
3,600.00	3,598.21	3,258.15	3,201.71	9.70	11.15	-169.912	7,971.18	21.28	8,065.54	8,044.79	20.74	388.823	
3,700.00	3,698.12	3,324.01	3,267.47	9.99	11.39	-169.908	7,974.56	22.26	8,074.80	8,053.54	21.26	379.820	
3,800.00	3,798.03	3,565.18	3,508.33	10.29	12.25	-169.892	7,985.77	26.34	8,083.87	8,061.45	22.42	360.589	
3,900.00	3,897.94	3,630.84	3,573.93	10.58	12.48	-169.886	7,988.26	27.59	8,091.80	8,068.86	22.94	352.746	
4,000.00	3,997.85	3,979.53	3,922.47	10.88	13.72	-169.880	7,996.34	31.05	8,097.89	8,073.41	24.48	330.782	
4,100.00	4,097.76	4,073.00	4,015.93	11.18	14.05	-169.885	7,997.39	31.12	8,103.15	8,078.05	25.11	322.767	
4,200.00	4,197.68	4,144.01	4,086.93	11.48	14.30	-169.888	7,998.34	31.19	8,108.59	8,082.94	25.65	316.105	
4,300.00	4,297.59	4,238.45	4,181.36	11.78	14.63	-169.893	7,999.66	31.13	8,114.14	8,087.85	26.28	308.722	
4,400.00	4,397.50	4,325.81	4,268.71	12.08	14.94	-169.899	8,000.97	30.93	8,119.78	8,092.89	26.89	301.959	
4,500.00	4,497.41	20,630.00	12,553.55	12.39	125.62	-131.889	-200.46	281.06	8,060.70	7,984.51	76.19	105.794	
4,600.00	4,597.32	20,630.00	12,553.55	12.69	125.62	-131.889	-200.46	281.06	7,960.78	7,884.43	76.35	104.268	
4,700.00	4,697.23	20,630.00	12,553.55	13.00	125.62	-131.889	-200.46	281.06	7,860.87	7,784.36	76.51	102.746	
4,800.00	4,797.14	20,630.00	12,553.55	13.31	125.62	-131.889	-200.46	281.06	7,760.95	7,684.28	76.67	101.226	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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			
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	4,897.05	20,630.00	12,553.55	13.62	125.62	-131.889	-200.46	281.06	7,661.04	7,584.21	76.83	99.709		
5,000.00	4,996.97	20,630.00	12,553.55	13.92	125.62	-131.889	-200.46	281.06	7,561.13	7,484.13	77.00	98.195		
5,100.00	5,096.88	20,630.00	12,553.55	14.23	125.62	-131.889	-200.46	281.06	7,461.23	7,384.06	77.17	96.685		
5,200.00	5,196.79	20,630.00	12,553.55	14.55	125.62	-131.889	-200.46	281.06	7,361.32	7,283.98	77.34	95.178		
5,300.00	5,296.70	20,630.00	12,553.55	14.86	125.62	-131.889	-200.46	281.06	7,261.42	7,183.91	77.52	93.674		
5,400.00	5,396.61	20,660.10	12,553.13	15.17	126.02	-128.330	-230.56	281.29	7,161.35	7,083.42	77.93	91.893		
5,500.00	5,496.52	20,661.25	12,553.12	15.48	126.04	-128.184	-231.70	281.30	7,061.44	6,983.32	78.12	90.391		
5,600.00	5,596.43	20,662.41	12,553.11	15.79	126.06	-128.035	-232.86	281.31	6,961.53	6,883.22	78.31	88.893		
5,700.00	5,696.34	20,663.60	12,553.09	16.11	126.07	-127.882	-234.05	281.32	6,861.63	6,783.12	78.51	87.400		
5,800.00	5,796.26	20,664.80	12,553.08	16.42	126.09	-127.725	-235.26	281.33	6,761.72	6,683.02	78.71	85.911		
5,900.00	5,896.17	20,666.03	12,553.07	16.74	126.10	-127.564	-236.48	281.34	6,661.82	6,582.91	78.91	84.426		
6,000.00	5,996.08	20,667.29	12,553.06	17.05	126.12	-127.400	-237.74	281.35	6,561.92	6,482.81	79.11	82.945		
6,100.00	6,095.99	20,668.56	12,553.05	17.37	126.14	-127.231	-239.01	281.36	6,462.03	6,382.71	79.32	81.469		
6,200.00	6,195.90	20,669.86	12,553.04	17.68	126.16	-127.058	-240.31	281.37	6,362.13	6,282.60	79.53	79.998		
6,300.00	6,295.81	20,671.19	12,553.03	18.00	126.17	-126.880	-241.64	281.39	6,262.24	6,182.50	79.74	78.532		
6,400.00	6,395.72	20,672.54	12,553.02	18.32	126.19	-126.698	-242.99	281.40	6,162.35	6,082.40	79.96	77.071		
6,500.00	6,495.63	20,673.92	12,553.01	18.63	126.21	-126.511	-244.37	281.41	6,062.47	5,982.29	80.18	75.614		
6,600.00	6,595.55	20,675.33	12,553.00	18.95	126.23	-126.319	-245.78	281.42	5,962.58	5,882.19	80.40	74.163		
6,700.00	6,695.46	20,676.76	12,552.99	19.27	126.25	-126.122	-247.21	281.43	5,862.71	5,782.08	80.62	72.717		
6,800.00	6,795.37	20,678.22	12,552.98	19.59	126.27	-125.919	-248.67	281.45	5,762.83	5,681.98	80.85	71.277		
6,900.00	6,895.28	20,679.72	12,552.97	19.91	126.29	-125.711	-250.17	281.46	5,662.96	5,581.87	81.08	69.842		
7,000.00	6,995.19	20,681.24	12,552.97	20.23	126.31	-125.496	-251.69	281.47	5,563.09	5,481.77	81.32	68.412		
7,100.00	7,095.10	20,682.80	12,552.96	20.54	126.33	-125.276	-253.25	281.49	5,463.22	5,381.67	81.55	66.989		
7,200.00	7,195.01	20,684.38	12,552.95	20.86	126.35	-125.049	-254.83	281.50	5,363.36	5,281.57	81.80	65.571		
7,300.00	7,294.92	20,686.01	12,552.95	21.18	126.37	-124.815	-256.46	281.51	5,263.50	5,181.46	82.04	64.158		
7,400.00	7,394.84	20,687.67	12,552.94	21.50	126.40	-124.575	-258.12	281.53	5,163.65	5,081.36	82.29	62.752		
7,500.00	7,494.75	20,689.36	12,552.93	21.82	126.42	-124.327	-259.81	281.54	5,063.80	4,981.27	82.54	61.352		
7,600.00	7,594.66	20,691.09	12,552.93	22.14	126.44	-124.071	-261.54	281.56	4,963.96	4,881.17	82.79	59.958		
7,700.00	7,694.57	20,692.86	12,552.92	22.46	126.47	-123.808	-263.31	281.58	4,864.12	4,781.07	83.05	58.570		
7,800.00	7,794.48	20,694.67	12,552.92	22.78	126.49	-123.536	-265.12	281.59	4,764.29	4,680.98	83.31	57.188		
7,900.00	7,894.39	20,696.52	12,552.92	23.10	126.51	-123.255	-266.97	281.61	4,664.46	4,580.89	83.57	55.813		
8,000.00	7,994.30	20,698.41	12,552.92	23.42	126.54	-122.966	-268.86	281.63	4,564.64	4,480.80	83.84	54.445		
8,100.00	8,094.21	20,724.00	12,552.97	23.75	126.88	-118.777	-294.45	281.87	4,464.95	4,380.65	84.31	52.962		
8,200.00	8,194.13	20,724.00	12,552.97	24.07	126.88	-118.777	-294.45	281.87	4,365.13	4,280.56	84.56	51.619		
8,300.00	8,294.04	20,724.00	12,552.97	24.39	126.88	-118.777	-294.45	281.87	4,265.31	4,180.48	84.83	50.283		
8,400.00	8,393.95	20,724.00	12,552.97	24.71	126.88	-118.777	-294.45	281.87	4,165.49	4,080.40	85.09	48.953		
8,500.00	8,493.86	20,724.00	12,552.97	25.03	126.88	-118.777	-294.45	281.87	4,065.69	3,980.33	85.36	47.630		
8,600.00	8,593.77	20,724.00	12,552.97	25.35	126.88	-118.777	-294.45	281.87	3,965.90	3,880.27	85.63	46.314		
8,700.00	8,693.68	20,724.00	12,552.97	25.67	126.88	-118.777	-294.45	281.87	3,866.12	3,780.21	85.91	45.004		
8,800.00	8,793.59	20,724.00	12,552.97	26.00	126.88	-118.777	-294.45	281.87	3,766.34	3,680.16	86.18	43.701		
8,900.00	8,893.50	20,724.00	12,552.97	26.32	126.88	-118.777	-294.45	281.87	3,666.59	3,580.12	86.47	42.405		
9,000.00	8,993.42	20,724.00	12,552.97	26.64	126.88	-118.777	-294.45	281.87	3,566.84	3,480.09	86.75	41.115		
9,100.00	9,093.33	20,724.00	12,552.97	26.96	126.88	-118.777	-294.45	281.87	3,467.11	3,380.07	87.04	39.833		
9,200.00	9,193.24	20,726.85	12,552.99	27.29	126.92	-118.278	-297.30	281.90	3,367.40	3,280.04	87.36	38.547		
9,300.00	9,293.15	20,733.39	12,553.02	27.61	127.01	-117.105	-303.84	281.97	3,267.69	3,179.98	87.71	37.255		
9,400.00	9,393.06	20,739.75	12,553.05	27.93	127.10	-115.928	-310.20	282.05	3,168.00	3,079.93	88.07	35.972		
9,500.00	9,492.97	20,745.94	12,553.07	28.25	127.18	-114.747	-316.39	282.13	3,068.31	2,979.88	88.43	34.698		
9,600.00	9,592.88	20,751.98	12,553.09	28.58	127.26	-113.565	-322.42	282.21	2,968.64	2,879.85	88.79	33.434		
9,700.00	9,692.79	20,757.85	12,553.10	28.90	127.34	-112.380	-328.30	282.30	2,868.98	2,779.82	89.16	32.178		
9,800.00	9,792.71	20,763.58	12,553.11	29.22	127.42	-111.196	-334.02	282.39	2,769.33	2,679.80	89.53	30.932		
9,900.00	9,892.62	20,769.16	12,553.12	29.55	127.49	-110.013	-339.60	282.48	2,669.70	2,579.80	89.91	29.694		
10,000.00	9,992.53	20,774.60	12,553.12	29.87	127.57	-108.832	-345.04	282.57	2,570.10	2,479.81	90.29	28.465		

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design: Cattlemen Fed Com - 403H - OH / 68704 - Surveys (H&P 656)													Offset Site Error:	0.00 usft
Survey Program:		188-MWD+HDCM					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	
10,100.00	10,092.44	20,779.91	12,553.12	30.19	127.64	-107.654	-350.35	282.67	2,470.51	2,379.84	90.68	27.245		
10,200.00	10,192.35	20,785.09	12,553.12	30.52	127.71	-106.480	-355.53	282.77	2,370.95	2,279.88	91.07	26.034		
10,300.00	10,292.26	20,790.14	12,553.12	30.84	127.78	-105.311	-360.58	282.87	2,271.42	2,179.95	91.47	24.832		
10,400.00	10,392.17	20,795.08	12,553.11	31.16	127.84	-104.149	-365.52	282.97	2,171.93	2,080.04	91.88	23.638		
10,500.00	10,492.08	20,799.90	12,553.10	31.49	127.91	-102.994	-370.34	283.07	2,072.47	1,980.17	92.30	22.453		
10,600.00	10,592.00	20,804.61	12,553.09	31.81	127.97	-101.847	-375.04	283.17	1,973.06	1,880.32	92.74	21.276		
10,700.00	10,691.91	20,809.21	12,553.08	32.13	128.03	-100.709	-379.64	283.28	1,873.70	1,780.52	93.18	20.108		
10,800.00	10,791.82	20,813.70	12,553.06	32.46	128.09	-99.581	-384.14	283.38	1,774.41	1,680.76	93.64	18.949		
10,900.00	10,891.73	20,818.10	12,553.05	32.78	128.15	-98.464	-388.53	283.49	1,675.18	1,581.06	94.12	17.798		
11,000.00	10,991.64	20,822.40	12,553.03	33.11	128.21	-97.358	-392.83	283.60	1,576.05	1,481.42	94.63	16.655		
11,100.00	11,091.55	20,818.00	12,553.05	33.43	128.15	-98.489	-388.43	283.49	1,477.04	1,381.97	95.07	15.536		
11,200.00	11,191.46	20,827.21	12,553.02	33.75	128.28	-96.105	-397.64	283.72	1,378.14	1,282.44	95.70	14.401		
11,300.00	11,291.37	20,830.41	12,553.01	34.08	128.32	-95.264	-400.84	283.80	1,279.41	1,183.10	96.31	13.284		
11,400.00	11,391.29	20,833.68	12,553.01	34.40	128.36	-94.396	-404.11	283.89	1,180.88	1,083.89	96.99	12.176		
11,500.00	11,491.20	20,837.04	12,553.00	34.73	128.41	-93.499	-407.47	283.98	1,082.61	984.86	97.75	11.075		
11,600.00	11,591.11	20,840.49	12,553.00	35.05	128.46	-92.573	-410.92	284.08	984.68	886.04	98.64	9.983		
11,700.00	11,691.02	20,844.03	12,553.00	35.38	128.50	-91.617	-414.45	284.18	887.19	787.50	99.69	8.899		
11,800.00	11,790.93	20,847.66	12,553.00	35.70	128.55	-90.630	-418.08	284.29	790.31	689.31	101.00	7.825		
11,900.00	11,890.84	20,851.38	12,553.00	36.03	128.60	-89.611	-421.80	284.40	694.30	591.61	102.69	6.761		
11,907.54	11,898.38	20,851.67	12,553.00	36.05	128.61	-89.533	-422.09	284.41	687.10	584.27	102.84	6.682		
12,000.00	11,990.80	20,853.89	12,553.01	36.33	128.64	-83.493	-424.31	284.47	599.59	494.61	104.98	5.712		
12,028.24	12,019.04	20,854.05	12,553.01	36.36	128.64	88.015	-424.47	284.48	573.18	467.41	105.78	5.419		
12,100.00	12,090.80	20,854.16	12,553.01	36.36	128.64	88.043	-424.57	284.48	507.01	398.77	108.24	4.684		
12,200.00	12,190.80	20,854.30	12,553.01	36.36	128.64	88.084	-424.72	284.49	417.87	304.72	113.15	3.693		
12,300.00	12,290.80	20,854.45	12,553.01	36.36	128.65	88.125	-424.87	284.49	334.92	214.23	120.69	2.775		
12,400.00	12,390.80	20,854.61	12,553.01	36.37	128.65	88.168	-425.03	284.50	264.07	132.43	131.64	2.006		
12,500.00	12,490.80	20,854.77	12,553.01	36.37	128.65	88.211	-425.19	284.50	217.47	74.49	142.97	1.521		
12,528.24	12,519.04	20,854.81	12,553.01	36.37	128.65	88.224	-425.23	284.50	211.13	66.24	144.89	1.457	Level 3	
12,550.00	12,540.79	20,855.25	12,553.01	36.40	128.66	-91.345	-425.67	284.52	208.74	63.05	145.70	1.433	Level 3	
12,561.96	12,552.74	20,855.83	12,553.01	36.46	128.66	-91.221	-426.24	284.53	208.40	62.52	145.88	1.429	Level 3, CC, ES, SF	
12,600.00	12,590.61	20,859.29	12,553.02	36.63	128.71	-89.927	-429.70	284.64	211.84	66.67	145.17	1.459	Level 3	
12,650.00	12,639.89	20,867.61	12,553.04	36.95	128.82	-86.195	-438.03	284.91	226.01	84.25	141.76	1.594		
12,700.00	12,688.24	20,880.26	12,553.10	37.29	129.00	-80.345	-450.66	285.34	248.86	112.01	136.85	1.818		
12,750.00	12,735.30	20,897.20	12,553.22	37.62	129.23	-72.854	-467.59	285.96	277.52	145.68	131.84	2.105		
12,800.00	12,780.72	20,918.40	12,553.42	37.96	129.51	-64.509	-488.77	286.80	309.50	182.02	127.49	2.428		
12,850.00	12,824.15	20,943.58	12,553.68	38.29	129.86	-56.243	-513.93	287.82	342.93	218.91	124.02	2.765		
12,900.00	12,865.26	20,972.42	12,553.97	38.60	130.25	-48.779	-542.75	288.98	376.45	255.07	121.39	3.101		
12,950.00	12,903.73	20,991.00	12,554.16	38.90	130.50	-43.670	-561.31	289.74	409.30	290.03	119.27	3.432		
13,000.00	12,939.27	20,991.00	12,554.16	39.18	130.50	-40.647	-561.31	289.74	442.77	325.46	117.31	3.774		
13,050.00	12,971.62	20,991.00	12,554.16	39.43	130.50	-37.702	-561.31	289.74	476.87	361.25	115.62	4.124		
13,100.00	13,000.52	20,991.00	12,554.16	39.65	130.50	-34.902	-561.31	289.74	511.24	397.09	114.15	4.479		
13,150.00	13,025.76	20,991.00	12,554.16	39.85	130.50	-32.287	-561.31	289.74	545.60	432.76	112.83	4.835		
13,200.00	13,047.14	20,991.00	12,554.16	40.02	130.50	-29.881	-561.31	289.74	579.70	468.07	111.62	5.193		
13,250.00	13,064.50	20,991.00	12,554.16	40.15	130.50	-27.691	-561.31	289.74	613.35	502.86	110.49	5.551		
13,300.00	13,077.71	20,991.00	12,554.16	40.26	130.50	-25.714	-561.31	289.74	646.39	536.98	109.41	5.908		
13,350.00	13,086.67	20,991.00	12,554.16	40.33	130.50	-23.939	-561.31	289.74	678.66	570.31	108.35	6.263		
13,400.00	13,091.30	20,991.00	12,554.16	40.38	130.50	-22.354	-561.31	289.74	710.06	602.75	107.31	6.617		
13,428.24	13,092.00	20,991.00	12,554.16	40.39	130.50	-21.536	-561.31	289.74	727.36	620.66	106.70	6.817		
13,500.00	13,092.00	20,991.00	12,554.16	40.40	130.50	-21.536	-561.31	289.74	773.00	667.85	105.15	7.351		
13,600.00	13,092.00	20,991.00	12,554.16	40.43	130.50	-21.536	-561.31	289.74	842.70	739.62	103.08	8.175		
13,700.00	13,092.00	20,991.00	12,554.16	40.46	130.50	-21.536	-561.31	289.74	918.01	816.81	101.20	9.071		
13,800.00	13,092.00	20,991.00	12,554.16	40.50	130.50	-21.536	-561.31	289.74	997.68	898.13	99.54	10.022		

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
13,900.00	13,092.00	20,991.00	12,554.16	40.53	130.50	-21.536	-561.31	289.74	1,080.72	982.63	98.10	11.017				
14,000.00	13,092.00	20,991.00	12,554.16	40.58	130.50	-21.536	-561.31	289.74	1,166.44	1,069.59	96.85	12.044				
14,100.00	13,092.00	20,991.00	12,554.16	40.63	130.50	-21.536	-561.31	289.74	1,254.27	1,158.49	95.77	13.096				
14,200.00	13,092.00	20,991.00	12,554.16	40.69	130.50	-21.536	-561.31	289.74	1,343.80	1,248.95	94.85	14.168				
14,300.00	13,092.00	20,991.00	12,554.16	40.76	130.50	-21.536	-561.31	289.74	1,434.71	1,340.66	94.05	15.255				
14,400.00	13,092.00	20,991.00	12,554.16	40.85	130.50	-21.536	-561.31	289.74	1,526.76	1,433.40	93.36	16.353				
14,500.00	13,092.00	20,991.00	12,554.16	40.95	130.50	-21.536	-561.31	289.74	1,619.76	1,526.99	92.76	17.461				
14,600.00	13,092.00	20,991.00	12,554.16	41.10	130.50	-21.536	-561.31	289.74	1,713.54	1,621.30	92.24	18.576				
14,700.00	13,092.00	20,991.00	12,554.16	41.29	130.50	-21.536	-561.31	289.74	1,807.99	1,716.20	91.79	19.696				
14,800.00	13,092.00	20,991.00	12,554.16	41.57	130.50	-21.536	-561.31	289.74	1,903.01	1,811.61	91.40	20.821				
14,900.00	13,092.00	20,991.00	12,554.16	41.99	130.50	-21.536	-561.31	289.74	1,998.51	1,907.46	91.05	21.949				
15,000.00	13,092.00	20,991.00	12,554.16	42.60	130.50	-21.536	-561.31	289.74	2,094.44	2,003.68	90.75	23.079				
15,100.00	13,092.00	20,991.00	12,554.16	43.42	130.50	-21.536	-561.31	289.74	2,190.72	2,100.24	90.49	24.211				
15,200.00	13,092.00	20,991.00	12,554.16	44.43	130.50	-21.536	-561.31	289.74	2,287.33	2,197.08	90.25	25.344				
15,300.00	13,092.00	20,991.00	12,554.16	45.56	130.50	-21.536	-561.31	289.74	2,384.22	2,294.17	90.05	26.477				
15,400.00	13,092.00	20,991.00	12,554.16	46.76	130.50	-21.536	-561.31	289.74	2,481.35	2,391.48	89.87	27.612				
15,500.00	13,092.00	20,991.00	12,554.16	48.01	130.50	-21.536	-561.31	289.74	2,578.70	2,488.99	89.71	28.746				
15,600.00	13,092.00	20,991.00	12,554.16	49.30	130.50	-21.536	-561.31	289.74	2,676.25	2,586.68	89.57	29.880				
15,700.00	13,092.00	20,991.00	12,554.16	50.61	130.50	-21.536	-561.31	289.74	2,773.97	2,684.53	89.44	31.013				
15,800.00	13,092.00	20,991.00	12,554.16	51.93	130.50	-21.536	-561.31	289.74	2,871.85	2,782.51	89.34	32.146				
15,900.00	13,092.00	20,991.00	12,554.16	53.27	130.50	-21.536	-561.31	289.74	2,969.87	2,880.63	89.24	33.278				
16,000.00	13,092.00	20,991.00	12,554.16	54.61	130.50	-21.536	-561.31	289.74	3,068.02	2,978.86	89.16	34.409				
16,100.00	13,092.00	20,991.00	12,554.16	55.97	130.50	-21.536	-561.31	289.74	3,166.28	3,077.19	89.09	35.539				
16,200.00	13,092.00	20,991.00	12,554.16	57.33	130.50	-21.536	-561.31	289.74	3,264.65	3,175.62	89.03	36.668				
16,300.00	13,092.00	20,991.00	12,554.16	58.69	130.50	-21.536	-561.31	289.74	3,363.12	3,274.14	88.98	37.795				
16,400.00	13,092.00	20,991.00	12,554.16	60.06	130.50	-21.536	-561.31	289.74	3,461.67	3,372.73	88.94	38.920				
16,500.00	13,092.00	20,991.00	12,554.16	61.44	130.50	-21.536	-561.31	289.74	3,560.31	3,471.40	88.91	40.044				
16,600.00	13,092.00	20,991.00	12,554.16	62.81	130.50	-21.536	-561.31	289.74	3,659.02	3,570.13	88.88	41.167				
16,700.00	13,092.00	20,991.00	12,554.16	64.20	130.50	-21.536	-561.31	289.74	3,757.79	3,668.93	88.86	42.287				
16,800.00	13,092.00	20,991.00	12,554.16	65.58	130.50	-21.536	-561.31	289.74	3,856.63	3,767.78	88.85	43.406				
16,900.00	13,092.00	20,991.00	12,554.16	66.97	130.50	-21.536	-561.31	289.74	3,955.53	3,866.69	88.84	44.523				
17,000.00	13,092.00	20,991.00	12,554.16	68.36	130.50	-21.536	-561.31	289.74	4,054.48	3,965.64	88.84	45.638				
17,100.00	13,092.00	20,991.00	12,554.16	69.75	130.50	-21.536	-561.31	289.74	4,153.49	4,064.64	88.84	46.750				
17,200.00	13,092.00	20,991.00	12,554.16	71.14	130.50	-21.536	-561.31	289.74	4,252.53	4,163.68	88.85	47.861				
17,300.00	13,092.00	20,991.00	12,554.16	72.54	130.50	-21.536	-561.31	289.74	4,351.63	4,262.76	88.86	48.970				
17,400.00	13,092.00	20,991.00	12,554.16	73.94	130.50	-21.536	-561.31	289.74	4,450.76	4,361.88	88.88	50.076				
17,500.00	13,092.00	20,991.00	12,554.16	75.34	130.50	-21.536	-561.31	289.74	4,549.93	4,461.03	88.90	51.180				
17,600.00	13,092.00	20,991.00	12,554.16	76.74	130.50	-21.536	-561.31	289.74	4,649.14	4,560.21	88.92	52.282				
17,700.00	13,092.00	20,991.00	12,554.16	78.14	130.50	-21.536	-561.31	289.74	4,748.38	4,659.42	88.95	53.381				
17,800.00	13,092.00	20,991.00	12,554.16	79.55	130.50	-21.536	-561.31	289.74	4,847.65	4,758.66	88.98	54.478				
17,900.00	13,092.00	20,991.00	12,554.16	80.95	130.50	-21.536	-561.31	289.74	4,946.95	4,857.93	89.02	55.572				
18,000.00	13,092.00	20,991.00	12,554.16	82.36	130.50	-21.536	-561.31	289.74	5,046.28	4,957.22	89.06	56.664				
18,100.00	13,092.00	20,991.00	12,554.16	83.76	130.50	-21.536	-561.31	289.74	5,145.63	5,056.54	89.10	57.754				
18,200.00	13,092.00	20,991.00	12,554.16	85.17	130.50	-21.536	-561.31	289.74	5,245.01	5,155.87	89.14	58.840				
18,300.00	13,092.00	20,991.00	12,554.16	86.58	130.50	-21.536	-561.31	289.74	5,344.41	5,255.23	89.19	59.925				
18,400.00	13,092.00	20,991.00	12,554.16	87.99	130.50	-21.536	-561.31	289.74	5,443.84	5,354.60	89.23	61.006				
18,500.00	13,092.00	20,991.00	12,554.16	89.40	130.50	-21.536	-561.31	289.74	5,543.28	5,454.00	89.29	62.085				
18,600.00	13,092.00	20,991.00	12,554.16	90.81	130.50	-21.536	-561.31	289.74	5,642.74	5,553.41	89.34	63.161				
18,700.00	13,092.00	20,991.00	12,554.16	92.23	130.50	-21.536	-561.31	289.74	5,742.23	5,652.83	89.39	64.235				
18,800.00	13,092.00	20,991.00	12,554.16	93.64	130.50	-21.536	-561.31	289.74	5,841.73	5,752.27	89.45	65.305				
18,900.00	13,092.00	20,991.00	12,554.16	95.06	130.50	-21.536	-561.31	289.74	5,941.25	5,851.73	89.51	66.373				
19,000.00	13,092.00	20,991.00	12,554.16	96.47	130.50	-21.536	-561.31	289.74	6,040.78	5,951.20	89.58	67.438				

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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	
19,100.00	13,092.00	20,991.00	12,554.16	97.89	130.50	-21.536	-561.31	289.74	6,140.33	6,050.69	89.64	68.500		
19,200.00	13,092.00	20,991.00	12,554.16	99.30	130.50	-21.536	-561.31	289.74	6,239.89	6,150.18	89.71	69.559		
19,300.00	13,092.00	20,991.00	12,554.16	100.72	130.50	-21.536	-561.31	289.74	6,339.47	6,249.69	89.78	70.615		
19,400.00	13,092.00	20,991.00	12,554.16	102.14	130.50	-21.536	-561.31	289.74	6,439.06	6,349.21	89.85	71.668		
19,500.00	13,092.00	20,991.00	12,554.16	103.55	130.50	-21.536	-561.31	289.74	6,538.66	6,448.74	89.92	72.718		
19,600.00	13,092.00	20,991.00	12,554.16	104.97	130.50	-21.536	-561.31	289.74	6,638.27	6,548.28	89.99	73.766		
19,700.00	13,092.00	20,991.00	12,554.16	106.39	130.50	-21.536	-561.31	289.74	6,737.90	6,647.83	90.07	74.810		
19,800.00	13,092.00	20,991.00	12,554.16	107.81	130.50	-21.536	-561.31	289.74	6,837.53	6,747.39	90.14	75.851		
19,900.00	13,092.00	20,991.00	12,554.16	109.23	130.50	-21.536	-561.31	289.74	6,937.18	6,846.96	90.22	76.889		
20,000.00	13,092.00	20,991.00	12,554.16	110.65	130.50	-21.536	-561.31	289.74	7,036.84	6,946.53	90.30	77.924		
20,100.00	13,092.00	20,991.00	12,554.16	112.07	130.50	-21.536	-561.31	289.74	7,136.50	7,046.12	90.39	78.955		
20,200.00	13,092.00	20,991.00	12,554.16	113.49	130.50	-21.536	-561.31	289.74	7,236.18	7,145.71	90.47	79.984		
20,300.00	13,092.00	20,991.00	12,554.16	114.91	130.50	-21.536	-561.31	289.74	7,335.86	7,245.31	90.56	81.009		
20,400.00	13,092.00	20,991.00	12,554.16	116.34	130.50	-21.536	-561.31	289.74	7,435.56	7,344.92	90.64	82.032		
20,500.00	13,092.00	20,991.00	12,554.16	117.76	130.50	-21.536	-561.31	289.74	7,535.26	7,444.53	90.73	83.051		
20,600.00	13,092.00	20,991.00	12,554.16	119.18	130.50	-21.536	-561.31	289.74	7,634.97	7,544.15	90.82	84.067		
20,700.00	13,092.00	20,991.00	12,554.16	120.60	130.50	-21.536	-561.31	289.74	7,734.68	7,643.77	90.91	85.079		
20,800.00	13,092.00	20,991.00	12,554.16	122.03	130.50	-21.536	-561.31	289.74	7,834.41	7,743.40	91.00	86.089		
20,900.00	13,092.00	20,991.00	12,554.16	123.45	130.50	-21.536	-561.31	289.74	7,934.14	7,843.04	91.10	87.095		
21,000.00	13,092.00	20,991.00	12,554.16	124.87	130.50	-21.536	-561.31	289.74	8,033.88	7,942.68	91.19	88.098		
21,100.00	13,092.00	20,991.00	12,554.16	126.30	130.50	-21.536	-561.31	289.74	8,133.62	8,042.33	91.29	89.097		
21,200.00	13,092.00	20,991.00	12,554.16	127.72	130.50	-21.536	-561.31	289.74	8,233.37	8,141.98	91.39	90.093		
21,300.00	13,092.00	20,991.00	12,554.16	129.15	130.50	-21.536	-561.31	289.74	8,333.13	8,241.64	91.49	91.086		
21,400.00	13,092.00	20,991.00	12,554.16	130.57	130.50	-21.536	-561.31	289.74	8,432.89	8,341.30	91.59	92.076		
21,500.00	13,092.00	20,991.00	12,554.16	132.00	130.50	-21.536	-561.31	289.74	8,532.66	8,440.97	91.69	93.062		
21,600.00	13,092.00	20,991.00	12,554.16	133.42	130.50	-21.536	-561.31	289.74	8,632.43	8,540.64	91.79	94.045		
21,700.00	13,092.00	20,991.00	12,554.16	134.85	130.50	-21.536	-561.31	289.74	8,732.21	8,640.31	91.89	95.024		
21,800.00	13,092.00	20,991.00	12,554.16	136.27	130.50	-21.536	-561.31	289.74	8,831.99	8,739.99	92.00	96.000		
21,900.00	13,092.00	20,991.00	12,554.16	137.70	130.50	-21.536	-561.31	289.74	8,931.78	8,839.67	92.11	96.973		
22,000.00	13,092.00	20,991.00	12,554.16	139.12	130.50	-21.536	-561.31	289.74	9,031.57	8,939.36	92.21	97.942		
22,100.00	13,092.00	20,991.00	12,554.16	140.55	130.50	-21.536	-561.31	289.74	9,131.37	9,039.05	92.32	98.908		
22,200.00	13,092.00	20,991.00	12,554.16	141.98	130.50	-21.536	-561.31	289.74	9,231.17	9,138.74	92.43	99.871		
22,300.00	13,092.00	20,991.00	12,554.16	143.40	130.50	-21.536	-561.31	289.74	9,330.97	9,238.43	92.54	100.830		
22,400.00	13,092.00	20,991.00	12,554.16	144.83	130.50	-21.536	-561.31	289.74	9,430.78	9,338.13	92.65	101.785		
22,500.00	13,092.00	20,991.00	12,554.16	146.26	130.50	-21.536	-561.31	289.74	9,530.60	9,437.83	92.77	102.738		
22,600.00	13,092.00	20,991.00	12,554.16	147.69	130.50	-21.536	-561.31	289.74	9,630.42	9,537.54	92.88	103.686		
22,700.00	13,092.00	20,991.00	12,554.16	149.11	130.50	-21.536	-561.31	289.74	9,730.24	9,637.24	93.00	104.632		
22,728.24	13,092.00	20,991.00	12,554.16	149.52	130.50	-21.536	-561.31	289.74	9,758.43	9,665.40	93.03	104.898		

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





## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> Cattlemen Fed Com - 422H - OH / 68635 - Surveys (H&P 625)													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 154-MWD+HDGM													<b>Offset Well Error:</b> 1.00 usft
<b>Rule Assigned:</b>													<b>Warning</b>
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	
0.00	0.00	55.16	0.16	1.00	1.00	-9.797	7,890.15	-1,362.40	8,006.92				
100.00	100.00	154.00	99.00	1.08	1.03	-9.803	7,890.01	-1,363.21	8,006.91	8,004.80	2.11	3,794.734	
200.00	200.00	255.29	200.28	1.60	1.16	-9.811	7,889.84	-1,364.31	8,006.93	8,004.17	2.76	2,900.228	
300.00	300.00	363.65	308.64	2.01	1.40	-9.816	7,889.64	-1,365.09	8,006.87	8,003.46	3.41	2,348.022	
400.00	400.00	474.35	419.33	2.35	1.70	-9.820	7,889.36	-1,365.60	8,006.70	8,002.65	4.05	1,974.957	
500.00	500.00	574.00	518.98	2.65	2.00	-9.824	7,888.96	-1,366.12	8,006.40	8,001.74	4.66	1,719.933	
600.00	600.00	670.08	615.06	2.93	2.31	-9.829	7,888.59	-1,366.69	8,006.12	8,000.89	5.23	1,530.128	
700.00	700.00	754.00	698.98	3.18	2.58	-9.833	7,888.40	-1,367.25	8,006.01	8,000.26	5.76	1,390.431	
725.44	725.44	780.47	725.44	3.24	2.67	-9.834	7,888.37	-1,367.44	8,006.01	8,000.10	5.91	1,355.789	
800.00	800.00	849.10	794.07	3.41	2.90	-9.838	7,888.31	-1,367.89	8,006.04	7,999.73	6.31	1,268.909	
900.00	900.00	934.00	878.98	3.64	3.18	-9.841	7,888.33	-1,368.40	8,006.16	7,999.35	6.82	1,174.324	
1,000.00	1,000.00	1,028.40	973.37	3.85	3.50	-9.844	7,888.49	-1,368.85	8,006.42	7,999.07	7.34	1,090.184	
1,100.00	1,100.00	1,119.00	1,063.97	4.05	3.80	-9.846	7,888.82	-1,369.11	8,006.83	7,998.98	7.85	1,019.857	
1,200.00	1,200.00	1,279.57	1,224.54	4.24	4.35	-9.848	7,888.91	-1,369.46	8,006.93	7,998.34	8.59	932.231	
1,213.05	1,213.05	1,301.27	1,246.24	4.27	4.42	-9.848	7,888.82	-1,369.51	8,006.89	7,998.20	8.69	921.687	
1,300.00	1,300.00	1,322.75	1,267.73	4.43	4.49	-9.847	7,889.01	-1,369.28	8,007.03	7,998.11	8.92	897.785	
1,400.00	1,400.00	1,372.62	1,317.59	4.61	4.66	-9.841	7,889.49	-1,368.60	8,007.74	7,998.48	9.27	864.277	
1,500.00	1,500.00	1,454.00	1,398.92	4.78	4.93	-9.824	7,891.14	-1,366.41	8,009.21	7,999.50	9.71	824.643	
1,600.00	1,599.98	1,480.53	1,425.42	4.98	5.02	-179.802	7,891.87	-1,365.48	8,012.78	8,002.79	9.99	801.949	
1,620.70	1,620.67	1,495.50	1,440.37	4.99	5.07	-179.798	7,892.30	-1,364.95	8,014.03	8,003.98	10.05	797.104	
1,700.00	1,699.89	1,552.82	1,497.63	5.07	5.26	-179.782	7,894.04	-1,362.93	8,019.26	8,008.93	10.33	776.433	
1,800.00	1,799.81	1,643.00	1,587.70	5.23	5.56	-179.756	7,897.09	-1,359.75	8,026.19	8,015.41	10.78	744.389	
1,900.00	1,899.72	1,730.62	1,675.21	5.41	5.85	-179.731	7,900.16	-1,356.73	8,033.25	8,022.00	11.25	713.750	
2,000.00	1,999.63	1,831.00	1,775.49	5.60	6.19	-179.704	7,903.47	-1,353.45	8,040.17	8,028.38	11.79	682.228	
2,100.00	2,099.54	1,897.88	1,842.27	5.80	6.42	-179.683	7,905.89	-1,350.85	8,047.31	8,035.09	12.22	658.729	
2,200.00	2,199.45	1,956.45	1,900.71	6.02	6.62	-179.658	7,908.46	-1,347.78	8,054.97	8,042.34	12.63	637.785	
2,300.00	2,299.36	2,019.00	1,963.04	6.24	6.84	-179.626	7,911.68	-1,343.68	8,063.14	8,050.07	13.07	617.106	
2,400.00	2,399.27	2,111.77	2,055.41	6.47	7.16	-179.572	7,916.83	-1,336.85	8,071.60	8,057.98	13.62	592.556	
2,500.00	2,499.18	2,208.00	2,151.21	6.72	7.50	-179.514	7,922.21	-1,329.49	8,080.07	8,065.87	14.20	569.106	
2,600.00	2,599.10	2,297.24	2,240.03	6.96	7.82	-179.459	7,927.31	-1,322.45	8,088.62	8,073.86	14.76	548.000	
2,700.00	2,699.01	2,383.37	2,325.73	7.22	8.13	-179.404	7,932.40	-1,315.50	8,097.35	8,082.03	15.32	528.619	
2,800.00	2,798.92	2,482.41	2,424.24	7.48	8.48	-179.340	7,938.38	-1,307.30	8,106.18	8,090.25	15.93	508.816	
2,900.00	2,898.83	2,583.63	2,524.91	7.74	8.85	-179.273	7,944.51	-1,298.68	8,115.00	8,098.44	16.56	490.070	
3,000.00	2,998.74	2,686.82	2,776.84	8.01	9.77	-179.109	7,957.58	-1,277.11	8,123.07	8,105.32	17.75	457.573	
3,100.00	3,098.65	3,098.08	3,037.51	8.28	10.70	-178.996	7,964.26	-1,261.86	8,128.67	8,109.71	18.96	428.628	
3,200.00	3,198.56	3,222.26	3,161.68	8.56	11.14	-178.993	7,964.97	-1,261.46	8,133.38	8,113.70	19.68	413.330	
3,300.00	3,298.47	3,322.13	3,261.55	8.84	11.48	-178.994	7,965.42	-1,261.53	8,138.04	8,117.74	20.31	400.756	
3,400.00	3,398.39	3,411.34	3,350.76	9.13	11.80	-178.993	7,965.89	-1,261.43	8,142.76	8,121.86	20.90	389.560	
3,500.00	3,498.30	3,498.37	3,437.79	9.41	12.10	-178.989	7,966.56	-1,260.88	8,147.64	8,126.14	21.49	379.074	
3,600.00	3,598.21	3,592.44	3,531.85	9.70	12.43	-178.981	7,967.48	-1,259.84	8,152.64	8,130.53	22.11	368.686	
3,700.00	3,698.12	3,690.15	3,629.54	9.99	12.77	-178.971	7,968.52	-1,258.47	8,157.68	8,134.93	22.75	358.619	
3,800.00	3,798.03	3,847.97	3,787.35	10.29	13.32	-178.956	7,969.72	-1,256.42	8,162.47	8,138.88	23.59	345.970	
3,900.00	3,897.94	3,961.43	3,900.80	10.58	13.72	-178.952	7,969.76	-1,255.69	8,166.60	8,142.32	24.28	336.295	
4,000.00	3,997.85	4,044.10	3,983.46	10.88	14.01	-178.948	7,969.91	-1,255.09	8,170.88	8,146.02	24.87	328.556	
4,100.00	4,097.76	4,134.43	4,073.80	11.18	14.32	-178.943	7,970.28	-1,254.32	8,175.36	8,149.87	25.48	320.806	
4,200.00	4,197.68	4,235.90	4,175.26	11.48	14.68	-178.937	7,970.70	-1,253.47	8,179.85	8,153.71	26.14	312.913	
4,300.00	4,297.59	4,336.33	4,275.69	11.78	15.03	-178.932	7,971.09	-1,252.71	8,184.33	8,157.54	26.80	305.428	
4,400.00	4,397.50	4,435.89	4,375.25	12.08	15.38	-178.928	7,971.45	-1,252.17	8,188.81	8,161.36	27.45	298.317	
4,500.00	4,497.41	4,584.19	4,523.54	12.39	15.90	-178.922	7,971.67	-1,251.23	8,193.10	8,164.83	28.28	289.759	
4,600.00	4,597.32	20,579.00	12,681.74	12.69	124.74	114.874	-162.62	-1,044.12	8,154.53	8,077.37	77.15	105.695	
4,700.00	4,697.23	20,579.00	12,681.74	13.00	124.74	114.874	-162.62	-1,044.12	8,055.56	7,978.22	77.35	104.149	
4,800.00	4,797.14	20,579.00	12,681.74	13.31	124.74	114.874	-162.62	-1,044.12	7,956.63	7,879.08	77.55	102.606	

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





## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design: Cattlemen Fed Com - 422H - OH / 68635 - Surveys (H&P 625)													Offset Site Error:	0.00 usft
Survey Program:		154-MWD+HDCM					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	
4,900.00	4,897.05	20,579.00	12,681.74	13.62	124.74	114.874	-162.62	-1,044.12	7,857.72	7,779.97	77.75	101.066		
5,000.00	4,996.97	20,579.00	12,681.74	13.92	124.74	114.874	-162.62	-1,044.12	7,758.84	7,680.88	77.95	99.530		
5,100.00	5,096.88	20,579.00	12,681.74	14.23	124.74	114.874	-162.62	-1,044.12	7,659.98	7,581.82	78.17	97.997		
5,200.00	5,196.79	20,579.00	12,681.74	14.55	124.74	114.874	-162.62	-1,044.12	7,561.16	7,482.78	78.38	96.467		
5,300.00	5,296.70	20,579.00	12,681.74	14.86	124.74	114.874	-162.62	-1,044.12	7,462.37	7,383.77	78.60	94.941		
5,400.00	5,396.61	20,579.00	12,681.74	15.17	124.74	114.874	-162.62	-1,044.12	7,363.61	7,284.79	78.82	93.419		
5,500.00	5,496.52	20,579.00	12,681.74	15.48	124.74	114.874	-162.62	-1,044.12	7,264.89	7,185.84	79.05	91.901		
5,600.00	5,596.43	20,579.00	12,681.74	15.79	124.74	114.874	-162.62	-1,044.12	7,166.20	7,086.92	79.28	90.387		
5,700.00	5,696.34	20,579.00	12,681.74	16.11	124.74	114.874	-162.62	-1,044.12	7,067.55	6,988.03	79.52	88.877		
5,800.00	5,796.26	20,579.00	12,681.74	16.42	124.74	114.874	-162.62	-1,044.12	6,968.93	6,889.17	79.76	87.371		
5,900.00	5,896.17	20,579.00	12,681.74	16.74	124.74	114.874	-162.62	-1,044.12	6,870.36	6,790.35	80.01	85.870		
6,000.00	5,996.08	20,579.00	12,681.74	17.05	124.74	114.874	-162.62	-1,044.12	6,771.83	6,691.57	80.26	84.373		
6,100.00	6,095.99	20,579.00	12,681.74	17.37	124.74	114.874	-162.62	-1,044.12	6,673.34	6,592.82	80.52	82.881		
6,200.00	6,195.90	20,579.00	12,681.74	17.68	124.74	114.874	-162.62	-1,044.12	6,574.90	6,494.12	80.78	81.393		
6,300.00	6,295.81	20,579.00	12,681.74	18.00	124.74	114.874	-162.62	-1,044.12	6,476.50	6,395.46	81.05	79.911		
6,400.00	6,395.72	20,579.00	12,681.74	18.32	124.74	114.874	-162.62	-1,044.12	6,378.16	6,296.84	81.32	78.433		
6,500.00	6,495.63	20,579.00	12,681.74	18.63	124.74	114.874	-162.62	-1,044.12	6,279.86	6,198.27	81.60	76.960		
6,600.00	6,595.55	20,579.00	12,681.74	18.95	124.74	114.874	-162.62	-1,044.12	6,181.63	6,099.74	81.88	75.493		
6,700.00	6,695.46	20,579.00	12,681.74	19.27	124.74	114.874	-162.62	-1,044.12	6,083.45	6,001.27	82.17	74.031		
6,800.00	6,795.37	20,579.00	12,681.74	19.59	124.74	114.874	-162.62	-1,044.12	5,985.33	5,902.85	82.47	72.575		
6,900.00	6,895.28	20,616.30	12,681.09	19.91	125.24	113.066	-199.86	-1,046.16	5,886.76	5,803.67	83.09	70.848		
7,000.00	6,995.19	20,617.16	12,681.09	20.23	125.25	113.025	-200.71	-1,046.20	5,788.75	5,705.34	83.41	69.402		
7,100.00	7,095.10	20,618.03	12,681.09	20.54	125.26	112.982	-201.59	-1,046.24	5,690.80	5,607.06	83.74	67.962		
7,200.00	7,195.01	20,618.94	12,681.08	20.86	125.27	112.938	-202.49	-1,046.28	5,592.92	5,508.86	84.07	66.528		
7,300.00	7,294.92	20,619.88	12,681.08	21.18	125.28	112.893	-203.43	-1,046.33	5,495.13	5,410.72	84.41	65.099		
7,400.00	7,394.84	20,620.84	12,681.08	21.50	125.30	112.845	-204.40	-1,046.37	5,397.41	5,312.65	84.76	63.677		
7,500.00	7,494.75	20,621.84	12,681.08	21.82	125.31	112.797	-205.39	-1,046.41	5,299.78	5,214.65	85.12	62.262		
7,600.00	7,594.66	20,622.88	12,681.08	22.14	125.32	112.746	-206.43	-1,046.46	5,202.23	5,116.74	85.49	60.852		
7,700.00	7,694.57	20,623.95	12,681.08	22.46	125.34	112.694	-207.50	-1,046.50	5,104.78	5,018.91	85.87	59.449		
7,800.00	7,794.48	20,625.06	12,681.08	22.78	125.35	112.640	-208.60	-1,046.55	5,007.43	4,921.17	86.26	58.053		
7,900.00	7,894.39	20,626.21	12,681.08	23.10	125.37	112.584	-209.75	-1,046.60	4,910.18	4,823.53	86.66	56.663		
8,000.00	7,994.30	20,627.40	12,681.08	23.42	125.38	112.526	-210.94	-1,046.65	4,813.05	4,725.99	87.07	55.281		
8,100.00	8,094.21	20,628.63	12,681.08	23.75	125.40	112.466	-212.18	-1,046.70	4,716.04	4,628.55	87.49	53.905		
8,200.00	8,194.13	20,629.92	12,681.09	24.07	125.42	112.403	-213.46	-1,046.75	4,619.15	4,531.23	87.92	52.537		
8,300.00	8,294.04	20,631.25	12,681.09	24.39	125.43	112.338	-214.79	-1,046.80	4,522.39	4,434.02	88.37	51.175		
8,400.00	8,393.95	20,632.64	12,681.10	24.71	125.45	112.271	-216.18	-1,046.86	4,425.78	4,336.95	88.83	49.821		
8,500.00	8,493.86	20,634.08	12,681.11	25.03	125.47	112.200	-217.62	-1,046.91	4,329.32	4,240.01	89.31	48.475		
8,600.00	8,593.77	20,635.58	12,681.12	25.35	125.49	112.127	-219.12	-1,046.97	4,233.03	4,143.22	89.80	47.136		
8,700.00	8,693.68	20,637.15	12,681.13	25.67	125.51	112.050	-220.68	-1,047.03	4,136.90	4,046.59	90.32	45.805		
8,800.00	8,793.59	20,638.78	12,681.15	26.00	125.53	111.970	-222.32	-1,047.09	4,040.97	3,950.12	90.84	44.482		
8,900.00	8,893.50	20,640.49	12,681.17	26.32	125.56	111.887	-224.02	-1,047.15	3,945.23	3,853.84	91.39	43.168		
9,000.00	8,993.42	20,642.27	12,681.19	26.64	125.58	111.800	-225.80	-1,047.21	3,849.71	3,757.75	91.96	41.862		
9,100.00	9,093.33	20,674.00	12,681.90	26.96	126.00	110.244	-257.51	-1,048.08	3,754.76	3,661.93	92.83	40.449		
9,200.00	9,193.24	20,674.00	12,681.90	27.29	126.00	110.244	-257.51	-1,048.08	3,659.67	3,566.24	93.43	39.171		
9,300.00	9,293.15	20,674.00	12,681.90	27.61	126.00	110.244	-257.51	-1,048.08	3,564.85	3,470.80	94.05	37.902		
9,400.00	9,393.06	20,674.00	12,681.90	27.93	126.00	110.244	-257.51	-1,048.08	3,470.33	3,375.62	94.71	36.643		
9,500.00	9,492.97	20,674.00	12,681.90	28.25	126.00	110.244	-257.51	-1,048.08	3,376.12	3,280.73	95.39	35.393		
9,600.00	9,592.88	20,674.00	12,681.90	28.58	126.00	110.244	-257.51	-1,048.08	3,282.25	3,186.15	96.11	34.152		
9,700.00	9,692.79	20,674.00	12,681.90	28.90	126.00	110.244	-257.51	-1,048.08	3,188.76	3,091.90	96.86	32.922		
9,800.00	9,792.71	20,674.00	12,681.90	29.22	126.00	110.244	-257.51	-1,048.08	3,095.67	2,998.02	97.65	31.703		
9,900.00	9,892.62	20,674.00	12,681.90	29.55	126.00	110.244	-257.51	-1,048.08	3,003.03	2,904.55	98.47	30.495		
10,000.00	9,992.53	20,674.00	12,681.90	29.87	126.00	110.244	-257.51	-1,048.08	2,910.87	2,811.52	99.35	29.299		

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> Cattlemen Fed Com - 422H - OH / 68635 - Surveys (H&P 625)												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 154-MWD+HDGM												<b>Offset Well Error:</b>	1.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
10,100.00	10,092.44	20,674.00	12,681.90	30.19	126.00	110.244	-257.51	-1,048.08	2,819.25	2,718.97	100.27	28.115	
10,200.00	10,192.35	20,674.00	12,681.90	30.52	126.00	110.244	-257.51	-1,048.08	2,728.21	2,626.96	101.25	26.945	
10,300.00	10,292.26	20,680.12	12,682.10	30.84	126.08	109.943	-263.63	-1,048.20	2,637.83	2,535.48	102.35	25.773	
10,400.00	10,392.17	20,691.64	12,682.46	31.16	126.24	109.375	-275.14	-1,048.43	2,548.13	2,444.56	103.57	24.603	
10,500.00	10,492.08	20,702.58	12,682.78	31.49	126.38	108.833	-286.07	-1,048.66	2,459.19	2,354.33	104.85	23.453	
10,600.00	10,592.00	20,712.99	12,683.07	31.81	126.52	108.317	-296.48	-1,048.87	2,371.10	2,264.89	106.21	22.324	
10,700.00	10,691.91	20,722.90	12,683.32	32.13	126.65	107.824	-306.39	-1,049.07	2,283.96	2,176.31	107.65	21.216	
10,800.00	10,791.82	20,732.36	12,683.55	32.46	126.78	107.354	-315.83	-1,049.27	2,197.89	2,088.71	109.18	20.130	
10,900.00	10,891.73	20,741.38	12,683.75	32.78	126.90	106.903	-324.85	-1,049.45	2,113.02	2,002.21	110.81	19.069	
11,000.00	10,991.64	20,750.00	12,683.94	33.11	127.02	106.472	-333.47	-1,049.63	2,029.50	1,916.96	112.54	18.034	
11,100.00	11,091.55	20,758.25	12,684.10	33.43	127.13	106.060	-341.71	-1,049.80	1,947.51	1,833.13	114.38	17.027	
11,200.00	11,191.46	20,766.14	12,684.25	33.75	127.23	105.664	-349.60	-1,049.97	1,867.25	1,750.91	116.33	16.051	
11,300.00	11,291.37	20,773.71	12,684.38	34.08	127.33	105.284	-357.17	-1,050.13	1,788.95	1,670.53	118.41	15.108	
11,400.00	11,391.29	20,780.09	12,684.49	34.40	127.42	104.963	-363.55	-1,050.26	1,712.88	1,592.28	120.60	14.203	
11,500.00	11,491.20	20,786.76	12,684.60	34.73	127.51	104.628	-370.22	-1,050.40	1,639.37	1,516.45	122.92	13.337	
11,600.00	11,591.11	20,793.29	12,684.70	35.05	127.60	104.300	-376.74	-1,050.53	1,568.76	1,443.41	125.35	12.515	
11,700.00	11,691.02	20,799.68	12,684.79	35.38	127.68	103.978	-383.13	-1,050.66	1,501.48	1,373.60	127.88	11.741	
11,800.00	11,790.93	20,805.93	12,684.88	35.70	127.77	103.663	-389.38	-1,050.79	1,437.98	1,307.50	130.48	11.021	
11,900.00	11,890.84	20,812.05	12,684.97	36.03	127.85	103.355	-395.50	-1,050.91	1,378.79	1,245.68	133.11	10.358	
11,907.54	11,898.38	20,812.51	12,684.97	36.05	127.85	103.332	-395.96	-1,050.92	1,374.52	1,241.20	133.31	10.311	
12,000.00	11,990.80	20,816.45	12,685.02	36.33	127.91	101.962	-399.90	-1,051.00	1,324.21	1,188.52	135.69	9.759	
12,028.24	12,019.04	20,817.00	12,685.03	36.36	127.91	-88.412	-400.45	-1,051.01	1,309.65	1,173.27	136.38	9.603	
12,100.00	12,090.80	20,818.01	12,685.05	36.36	127.93	-88.464	-401.46	-1,051.03	1,274.65	1,136.60	138.06	9.233	
12,200.00	12,190.80	20,819.39	12,685.06	36.36	127.95	-88.534	-402.84	-1,051.06	1,231.22	1,090.98	140.24	8.779	
12,300.00	12,290.80	20,820.75	12,685.08	36.36	127.96	-88.603	-404.19	-1,051.08	1,194.59	1,052.44	142.15	8.404	
12,400.00	12,390.80	20,822.08	12,685.10	36.37	127.98	-88.670	-405.52	-1,051.11	1,165.41	1,021.71	143.70	8.110	
12,500.00	12,490.80	20,823.38	12,685.11	36.37	128.00	-88.736	-406.82	-1,051.14	1,144.26	999.44	144.81	7.902	
12,528.24	12,519.04	20,823.74	12,685.12	36.37	128.00	-88.755	-407.19	-1,051.14	1,139.80	994.76	145.04	7.859	
12,550.00	12,540.79	20,824.45	12,685.13	36.40	128.01	92.059	-407.89	-1,051.16	1,136.85	991.65	145.19	7.830	
12,600.00	12,590.61	20,829.28	12,685.18	36.63	128.08	92.329	-412.72	-1,051.25	1,131.72	986.18	145.55	7.776	
12,650.00	12,639.89	20,838.49	12,685.29	36.95	128.20	92.150	-421.93	-1,051.44	1,128.93	983.06	145.87	7.740	
12,687.26	12,676.03	20,848.13	12,685.39	37.20	128.33	91.738	-431.56	-1,051.62	1,128.31	982.24	146.08	7.724 CC, ES	
12,700.00	12,688.24	20,851.95	12,685.43	37.29	128.38	91.545	-435.39	-1,051.70	1,128.38	982.24	146.14	7.721	
12,750.00	12,735.30	20,867.85	12,685.57	37.62	128.59	90.629	-451.28	-1,052.01	1,129.97	983.59	146.38	7.720 SF	
12,800.00	12,780.72	20,884.43	12,685.65	37.96	128.82	89.509	-467.86	-1,052.38	1,133.53	986.97	146.56	7.734	
12,850.00	12,824.15	20,903.71	12,685.65	38.29	129.07	88.124	-487.14	-1,052.89	1,138.88	992.15	146.73	7.762	
12,900.00	12,865.26	20,929.24	12,685.53	38.60	129.41	86.373	-512.65	-1,053.66	1,145.74	998.82	146.92	7.798	
12,950.00	12,903.73	20,960.93	12,685.37	38.90	129.84	84.345	-544.32	-1,054.62	1,153.69	1,006.54	147.16	7.840	
13,000.00	12,939.27	20,972.00	12,685.32	39.18	129.98	83.041	-555.39	-1,054.96	1,162.61	1,015.43	147.18	7.899	
13,050.00	12,971.62	20,972.00	12,685.32	39.43	129.98	81.985	-555.39	-1,054.96	1,173.02	1,025.97	147.05	7.977	
13,100.00	13,000.52	20,972.00	12,685.32	39.65	129.98	80.780	-555.39	-1,054.96	1,184.86	1,038.01	146.85	8.069	
13,150.00	13,025.76	20,972.00	12,685.32	39.85	129.98	79.438	-555.39	-1,054.96	1,198.00	1,051.41	146.59	8.172	
13,200.00	13,047.14	20,972.00	12,685.32	40.02	129.98	77.975	-555.39	-1,054.96	1,212.30	1,066.03	146.28	8.288	
13,250.00	13,064.50	20,972.00	12,685.32	40.15	129.98	76.406	-555.39	-1,054.96	1,227.61	1,081.71	145.90	8.414	
13,300.00	13,077.71	20,972.00	12,685.32	40.26	129.98	74.751	-555.39	-1,054.96	1,243.79	1,098.32	145.47	8.550	
13,350.00	13,086.67	20,972.00	12,685.32	40.33	129.98	73.028	-555.39	-1,054.96	1,260.67	1,115.68	144.99	8.695	
13,400.00	13,091.30	20,972.00	12,685.32	40.38	129.98	71.257	-555.39	-1,054.96	1,278.10	1,133.64	144.46	8.847	
13,428.24	13,092.00	20,972.00	12,685.32	40.39	129.98	70.244	-555.39	-1,054.96	1,288.14	1,143.99	144.14	8.937	
13,500.00	13,092.00	20,972.00	12,685.32	40.40	129.98	70.244	-555.39	-1,054.96	1,315.48	1,172.27	143.21	9.186	
13,600.00	13,092.00	20,972.00	12,685.32	40.43	129.98	70.244	-555.39	-1,054.96	1,358.99	1,217.39	141.61	9.597	
13,700.00	13,092.00	20,972.00	12,685.32	40.46	129.98	70.244	-555.39	-1,054.96	1,408.28	1,268.54	139.73	10.078	
13,800.00	13,092.00	20,972.00	12,685.32	40.50	129.98	70.244	-555.39	-1,054.96	1,462.75	1,325.08	137.67	10.625	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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	13,092.00	20,972.00	12,685.32	40.53	129.98	70.244	-555.39	-1,054.96	1,521.84	1,386.36	135.49	11.232		
14,000.00	13,092.00	20,972.00	12,685.32	40.58	129.98	70.244	-555.39	-1,054.96	1,585.05	1,451.79	133.26	11.895		
14,100.00	13,092.00	20,972.00	12,685.32	40.63	129.98	70.244	-555.39	-1,054.96	1,651.90	1,520.87	131.03	12.607		
14,200.00	13,092.00	20,972.00	12,685.32	40.69	129.98	70.244	-555.39	-1,054.96	1,721.96	1,593.13	128.83	13.366		
14,300.00	13,092.00	20,972.00	12,685.32	40.76	129.98	70.244	-555.39	-1,054.96	1,794.86	1,668.16	126.70	14.166		
14,400.00	13,092.00	20,972.00	12,685.32	40.85	129.98	70.244	-555.39	-1,054.96	1,870.27	1,745.61	124.66	15.003		
14,500.00	13,092.00	20,972.00	12,685.32	40.95	129.98	70.244	-555.39	-1,054.96	1,947.90	1,825.18	122.71	15.873		
14,600.00	13,092.00	20,972.00	12,685.32	41.10	129.98	70.244	-555.39	-1,054.96	2,027.48	1,906.61	120.87	16.774		
14,700.00	13,092.00	20,972.00	12,685.32	41.29	129.98	70.244	-555.39	-1,054.96	2,108.81	1,989.67	119.14	17.701		
14,800.00	13,092.00	20,972.00	12,685.32	41.57	129.98	70.244	-555.39	-1,054.96	2,191.68	2,074.17	117.51	18.652		
14,900.00	13,092.00	20,972.00	12,685.32	41.99	129.98	70.244	-555.39	-1,054.96	2,275.92	2,159.95	115.98	19.624		
15,000.00	13,092.00	20,972.00	12,685.32	42.60	129.98	70.244	-555.39	-1,054.96	2,361.40	2,246.85	114.55	20.614		
15,100.00	13,092.00	20,972.00	12,685.32	43.42	129.98	70.244	-555.39	-1,054.96	2,447.98	2,334.76	113.22	21.621		
15,200.00	13,092.00	20,972.00	12,685.32	44.43	129.98	70.244	-555.39	-1,054.96	2,535.54	2,423.56	111.98	22.642		
15,300.00	13,092.00	20,972.00	12,685.32	45.56	129.98	70.244	-555.39	-1,054.96	2,624.00	2,513.17	110.83	23.677		
15,400.00	13,092.00	20,972.00	12,685.32	46.76	129.98	70.244	-555.39	-1,054.96	2,713.25	2,603.50	109.75	24.722		
15,500.00	13,092.00	20,972.00	12,685.32	48.01	129.98	70.244	-555.39	-1,054.96	2,803.23	2,694.48	108.75	25.776		
15,600.00	13,092.00	20,972.00	12,685.32	49.30	129.98	70.244	-555.39	-1,054.96	2,893.87	2,786.05	107.82	26.839		
15,700.00	13,092.00	20,972.00	12,685.32	50.61	129.98	70.244	-555.39	-1,054.96	2,985.11	2,878.15	106.96	27.909		
15,800.00	13,092.00	20,972.00	12,685.32	51.93	129.98	70.244	-555.39	-1,054.96	3,076.89	2,970.74	106.15	28.986		
15,900.00	13,092.00	20,972.00	12,685.32	53.27	129.98	70.244	-555.39	-1,054.96	3,169.17	3,063.77	105.40	30.067		
16,000.00	13,092.00	20,972.00	12,685.32	54.61	129.98	70.244	-555.39	-1,054.96	3,261.91	3,157.20	104.71	31.153		
16,100.00	13,092.00	20,972.00	12,685.32	55.97	129.98	70.244	-555.39	-1,054.96	3,355.06	3,251.00	104.06	32.242		
16,200.00	13,092.00	20,972.00	12,685.32	57.33	129.98	70.244	-555.39	-1,054.96	3,448.59	3,345.14	103.46	33.334		
16,300.00	13,092.00	20,972.00	12,685.32	58.69	129.98	70.244	-555.39	-1,054.96	3,542.48	3,439.59	102.89	34.428		
16,400.00	13,092.00	20,972.00	12,685.32	60.06	129.98	70.244	-555.39	-1,054.96	3,636.70	3,534.33	102.37	35.525		
16,500.00	13,092.00	20,972.00	12,685.32	61.44	129.98	70.244	-555.39	-1,054.96	3,731.21	3,629.33	101.88	36.622		
16,600.00	13,092.00	20,972.00	12,685.32	62.81	129.98	70.244	-555.39	-1,054.96	3,826.01	3,724.58	101.43	37.720		
16,700.00	13,092.00	20,972.00	12,685.32	64.20	129.98	70.244	-555.39	-1,054.96	3,921.06	3,820.05	101.01	38.819		
16,800.00	13,092.00	20,972.00	12,685.32	65.58	129.98	70.244	-555.39	-1,054.96	4,016.35	3,915.74	100.61	39.918		
16,900.00	13,092.00	20,972.00	12,685.32	66.97	129.98	70.244	-555.39	-1,054.96	4,111.87	4,011.62	100.25	41.017		
17,000.00	13,092.00	20,972.00	12,685.32	68.36	129.98	70.244	-555.39	-1,054.96	4,207.59	4,107.69	99.91	42.116		
17,100.00	13,092.00	20,972.00	12,685.32	69.75	129.98	70.244	-555.39	-1,054.96	4,303.51	4,203.93	99.59	43.213		
17,200.00	13,092.00	20,972.00	12,685.32	71.14	129.98	70.244	-555.39	-1,054.96	4,399.62	4,300.32	99.29	44.310		
17,300.00	13,092.00	20,972.00	12,685.32	72.54	129.98	70.244	-555.39	-1,054.96	4,495.89	4,396.87	99.02	45.405		
17,400.00	13,092.00	20,972.00	12,685.32	73.94	129.98	70.244	-555.39	-1,054.96	4,592.32	4,493.56	98.76	46.500		
17,500.00	13,092.00	20,972.00	12,685.32	75.34	129.98	70.244	-555.39	-1,054.96	4,688.90	4,590.38	98.52	47.592		
17,600.00	13,092.00	20,972.00	12,685.32	76.74	129.98	70.244	-555.39	-1,054.96	4,785.62	4,687.32	98.30	48.684		
17,700.00	13,092.00	20,972.00	12,685.32	78.14	129.98	70.244	-555.39	-1,054.96	4,882.47	4,784.38	98.09	49.773		
17,800.00	13,092.00	20,972.00	12,685.32	79.55	129.98	70.244	-555.39	-1,054.96	4,979.45	4,881.54	97.90	50.860		
17,900.00	13,092.00	20,972.00	12,685.32	80.95	129.98	70.244	-555.39	-1,054.96	5,076.54	4,978.82	97.73	51.946		
18,000.00	13,092.00	20,972.00	12,685.32	82.36	129.98	70.244	-555.39	-1,054.96	5,173.75	5,076.18	97.56	53.029		
18,100.00	13,092.00	20,972.00	12,685.32	83.76	129.98	70.244	-555.39	-1,054.96	5,271.06	5,173.65	97.41	54.110		
18,200.00	13,092.00	20,972.00	12,685.32	85.17	129.98	70.244	-555.39	-1,054.96	5,368.47	5,271.19	97.27	55.189		
18,300.00	13,092.00	20,972.00	12,685.32	86.58	129.98	70.244	-555.39	-1,054.96	5,465.97	5,368.82	97.15	56.266		
18,400.00	13,092.00	20,972.00	12,685.32	87.99	129.98	70.244	-555.39	-1,054.96	5,563.56	5,466.53	97.03	57.340		
18,500.00	13,092.00	20,972.00	12,685.32	89.40	129.98	70.244	-555.39	-1,054.96	5,661.24	5,564.32	96.92	58.411		
18,600.00	13,092.00	20,972.00	12,685.32	90.81	129.98	70.244	-555.39	-1,054.96	5,758.99	5,662.17	96.82	59.481		
18,700.00	13,092.00	20,972.00	12,685.32	92.23	129.98	70.244	-555.39	-1,054.96	5,856.82	5,760.09	96.73	60.547		
18,800.00	13,092.00	20,972.00	12,685.32	93.64	129.98	70.244	-555.39	-1,054.96	5,954.72	5,858.07	96.65	61.611		
18,900.00	13,092.00	20,972.00	12,685.32	95.06	129.98	70.244	-555.39	-1,054.96	6,052.69	5,956.12	96.58	62.672		
19,000.00	13,092.00	20,972.00	12,685.32	96.47	129.98	70.244	-555.39	-1,054.96	6,150.73	6,054.22	96.51	63.730		

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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		
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	
19,100.00	13,092.00	20,972.00	12,685.32	97.89	129.98	70.244	-555.39	-1,054.96	6,248.83	6,152.38	96.45	64.786		
19,200.00	13,092.00	20,972.00	12,685.32	99.30	129.98	70.244	-555.39	-1,054.96	6,346.99	6,250.59	96.40	65.838		
19,300.00	13,092.00	20,972.00	12,685.32	100.72	129.98	70.244	-555.39	-1,054.96	6,445.20	6,348.84	96.36	66.888		
19,400.00	13,092.00	20,972.00	12,685.32	102.14	129.98	70.244	-555.39	-1,054.96	6,543.47	6,447.15	96.32	67.935		
19,500.00	13,092.00	20,972.00	12,685.32	103.55	129.98	70.244	-555.39	-1,054.96	6,641.79	6,545.50	96.29	68.979		
19,600.00	13,092.00	20,972.00	12,685.32	104.97	129.98	70.244	-555.39	-1,054.96	6,740.16	6,643.90	96.26	70.020		
19,700.00	13,092.00	20,972.00	12,685.32	106.39	129.98	70.244	-555.39	-1,054.96	6,838.58	6,742.34	96.24	71.058		
19,800.00	13,092.00	20,972.00	12,685.32	107.81	129.98	70.244	-555.39	-1,054.96	6,937.04	6,840.82	96.22	72.093		
19,900.00	13,092.00	20,972.00	12,685.32	109.23	129.98	70.244	-555.39	-1,054.96	7,035.55	6,939.34	96.21	73.125		
20,000.00	13,092.00	20,972.00	12,685.32	110.65	129.98	70.244	-555.39	-1,054.96	7,134.10	7,037.89	96.21	74.154		
20,100.00	13,092.00	20,972.00	12,685.32	112.07	129.98	70.244	-555.39	-1,054.96	7,232.68	7,136.48	96.21	75.180		
20,200.00	13,092.00	20,972.00	12,685.32	113.49	129.98	70.244	-555.39	-1,054.96	7,331.31	7,235.10	96.21	76.203		
20,300.00	13,092.00	20,972.00	12,685.32	114.91	129.98	70.244	-555.39	-1,054.96	7,429.97	7,333.76	96.22	77.222		
20,400.00	13,092.00	20,972.00	12,685.32	116.34	129.98	70.244	-555.39	-1,054.96	7,528.67	7,432.44	96.23	78.239		
20,500.00	13,092.00	20,972.00	12,685.32	117.76	129.98	70.244	-555.39	-1,054.96	7,627.40	7,531.16	96.24	79.252		
20,600.00	13,092.00	20,972.00	12,685.32	119.18	129.98	70.244	-555.39	-1,054.96	7,726.16	7,629.90	96.26	80.263		
20,700.00	13,092.00	20,972.00	12,685.32	120.60	129.98	70.244	-555.39	-1,054.96	7,824.96	7,728.68	96.28	81.270		
20,800.00	13,092.00	20,972.00	12,685.32	122.03	129.98	70.244	-555.39	-1,054.96	7,923.79	7,827.47	96.31	82.274		
20,900.00	13,092.00	20,972.00	12,685.32	123.45	129.98	70.244	-555.39	-1,054.96	8,022.64	7,926.30	96.34	83.274		
21,000.00	13,092.00	20,972.00	12,685.32	124.87	129.98	70.244	-555.39	-1,054.96	8,121.52	8,025.15	96.37	84.272		
21,100.00	13,092.00	20,972.00	12,685.32	126.30	129.98	70.244	-555.39	-1,054.96	8,220.43	8,124.02	96.41	85.266		
21,200.00	13,092.00	20,972.00	12,685.32	127.72	129.98	70.244	-555.39	-1,054.96	8,319.37	8,222.92	96.45	86.257		
21,300.00	13,092.00	20,972.00	12,685.32	129.15	129.98	70.244	-555.39	-1,054.96	8,418.33	8,321.84	96.49	87.245		
21,400.00	13,092.00	20,972.00	12,685.32	130.57	129.98	70.244	-555.39	-1,054.96	8,517.32	8,420.78	96.54	88.229		
21,500.00	13,092.00	20,972.00	12,685.32	132.00	129.98	70.244	-555.39	-1,054.96	8,616.32	8,519.74	96.58	89.211		
21,600.00	13,092.00	20,972.00	12,685.32	133.42	129.98	70.244	-555.39	-1,054.96	8,715.36	8,618.72	96.63	90.189		
21,700.00	13,092.00	20,972.00	12,685.32	134.85	129.98	70.244	-555.39	-1,054.96	8,814.41	8,717.72	96.69	91.164		
21,800.00	13,092.00	20,972.00	12,685.32	136.27	129.98	70.244	-555.39	-1,054.96	8,913.48	8,816.74	96.74	92.135		
21,900.00	13,092.00	20,972.00	12,685.32	137.70	129.98	70.244	-555.39	-1,054.96	9,012.58	8,915.78	96.80	93.103		
22,000.00	13,092.00	20,972.00	12,685.32	139.12	129.98	70.244	-555.39	-1,054.96	9,111.69	9,014.83	96.86	94.068		
22,100.00	13,092.00	20,972.00	12,685.32	140.55	129.98	70.244	-555.39	-1,054.96	9,210.83	9,113.90	96.93	95.030		
22,200.00	13,092.00	20,972.00	12,685.32	141.98	129.98	70.244	-555.39	-1,054.96	9,309.98	9,212.99	96.99	95.988		
22,300.00	13,092.00	20,972.00	12,685.32	143.40	129.98	70.244	-555.39	-1,054.96	9,409.15	9,312.09	97.06	96.943		
22,400.00	13,092.00	20,972.00	12,685.32	144.83	129.98	70.244	-555.39	-1,054.96	9,508.34	9,411.21	97.13	97.895		
22,500.00	13,092.00	20,972.00	12,685.32	146.26	129.98	70.244	-555.39	-1,054.96	9,607.54	9,510.34	97.20	98.843		
22,600.00	13,092.00	20,972.00	12,685.32	147.69	129.98	70.244	-555.39	-1,054.96	9,706.76	9,609.49	97.27	99.788		
22,700.00	13,092.00	20,972.00	12,685.32	149.11	129.98	70.244	-555.39	-1,054.96	9,806.00	9,708.65	97.35	100.730		
22,728.24	13,092.00	20,972.00	12,685.32	149.52	129.98	70.244	-555.39	-1,054.96	9,834.03	9,736.66	97.37	100.995		

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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:				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	62.94	7.94	1.00	1.00	-10.218	7,889.64	-1,422.12	8,016.79							
100.00	100.00	174.36	119.36	1.08	1.04	-10.218	7,889.44	-1,422.10	8,016.61	8,014.48	2.13	3,766.100				
200.00	200.00	274.01	219.01	1.60	1.20	-10.218	7,889.19	-1,422.11	8,016.37	8,013.57	2.80	2,867.026				
300.00	300.00	380.14	325.14	2.01	1.44	-10.219	7,888.90	-1,422.19	8,016.10	8,012.65	3.45	2,322.882				
400.00	400.00	488.92	433.92	2.35	1.74	-10.222	7,888.43	-1,422.50	8,015.74	8,011.64	4.09	1,957.636				
500.00	500.00	575.28	520.27	2.65	2.00	-10.224	7,888.10	-1,422.71	8,015.40	8,010.75	4.65	1,723.129				
600.00	600.00	663.00	608.00	2.93	2.27	-10.224	7,887.95	-1,422.68	8,015.23	8,010.03	5.20	1,542.478				
680.14	680.14	735.15	680.14	3.13	2.49	-10.223	7,887.94	-1,422.56	8,015.19	8,009.57	5.62	1,425.594				
700.00	700.00	753.12	698.12	3.18	2.55	-10.223	7,887.95	-1,422.53	8,015.19	8,009.47	5.73	1,399.022				
800.00	800.00	845.00	790.00	3.41	2.84	-10.222	7,888.06	-1,422.36	8,015.28	8,009.02	6.26	1,281.040				
900.00	900.00	959.89	904.88	3.64	3.22	-10.220	7,888.14	-1,422.15	8,015.32	8,008.46	6.86	1,168.983				
1,000.00	1,000.00	1,058.27	1,003.27	3.85	3.55	-10.219	7,888.06	-1,421.97	8,015.21	8,007.81	7.40	1,083.818				
1,013.68	1,013.68	1,068.68	1,013.68	3.87	3.58	-10.219	7,888.06	-1,421.95	8,015.20	8,007.75	7.46	1,074.743				
1,100.00	1,100.00	1,134.39	1,079.39	4.05	3.81	-10.217	7,888.18	-1,421.78	8,015.31	8,007.46	7.85	1,020.698				
1,200.00	1,200.00	1,314.10	1,259.10	4.24	4.41	-10.215	7,887.48	-1,421.27	8,014.73	8,006.08	8.65	926.058				
1,300.00	1,300.00	1,371.35	1,316.34	4.43	4.61	-10.215	7,887.20	-1,421.33	8,014.26	8,005.22	9.03	887.035				
1,338.23	1,338.23	1,393.24	1,338.23	4.50	4.68	-10.216	7,887.16	-1,421.40	8,014.22	8,005.04	9.18	873.206				
1,400.00	1,400.00	1,461.00	1,405.99	4.61	4.91	-10.219	7,887.31	-1,421.79	8,014.44	8,004.92	9.52	841.919				
1,405.99	1,405.99	1,461.00	1,405.99	4.62	4.91	-10.219	7,887.31	-1,421.79	8,014.43	8,004.90	9.53	840.994				
1,500.00	1,500.00	1,461.00	1,405.99	4.78	4.91	-10.219	7,887.31	-1,421.79	8,014.99	8,005.29	9.69	826.825				
1,600.00	1,599.98	1,529.84	1,474.82	4.98	5.14	179.790	7,887.93	-1,422.61	8,017.91	8,007.79	10.12	792.535				
1,620.70	1,620.67	1,539.76	1,484.74	4.99	5.18	179.789	7,888.06	-1,422.77	8,019.04	8,008.88	10.16	789.058				
1,700.00	1,699.89	1,577.74	1,522.71	5.07	5.30	179.785	7,888.68	-1,423.51	8,023.93	8,013.56	10.38	773.379				
1,800.00	1,799.81	1,649.00	1,593.92	5.23	5.54	179.774	7,890.30	-1,425.36	8,030.74	8,019.97	10.77	745.679				
1,900.00	1,899.72	1,695.94	1,640.82	5.41	5.70	179.765	7,891.55	-1,426.85	8,037.98	8,026.88	11.11	723.778				
2,000.00	1,999.63	1,787.82	1,732.61	5.60	6.02	179.745	7,894.00	-1,430.18	8,045.46	8,033.85	11.61	693.020				
2,100.00	2,099.54	1,879.76	1,824.44	5.80	6.33	179.721	7,896.45	-1,434.03	8,053.04	8,040.91	12.13	664.053				
2,200.00	2,199.45	1,971.80	1,916.35	6.02	6.65	179.697	7,898.98	-1,437.93	8,060.71	8,048.05	12.66	636.805				
2,300.00	2,299.36	2,068.05	2,012.48	6.24	6.98	179.672	7,901.71	-1,441.98	8,068.46	8,055.25	13.22	610.552				
2,400.00	2,399.27	2,170.36	2,114.67	6.47	7.34	179.647	7,904.63	-1,446.14	8,076.21	8,062.40	13.80	585.078				
2,500.00	2,499.18	2,257.52	2,201.73	6.72	7.65	179.626	7,907.15	-1,449.56	8,083.97	8,069.63	14.35	563.441				
2,600.00	2,599.10	2,332.92	2,277.03	6.96	7.91	179.609	7,909.54	-1,452.55	8,092.01	8,077.15	14.86	544.648				
2,700.00	2,699.01	2,403.00	2,347.01	7.22	8.16	179.592	7,911.95	-1,455.37	8,100.35	8,084.99	15.35	527.562				
2,800.00	2,798.92	2,489.65	2,433.53	7.48	8.46	179.573	7,915.19	-1,458.77	8,108.94	8,093.02	15.92	509.450				
2,900.00	2,898.83	2,570.59	2,514.35	7.74	8.75	179.556	7,918.44	-1,461.76	8,117.76	8,101.30	16.46	493.051				
3,000.00	2,998.74	2,656.22	2,599.84	8.01	9.05	179.539	7,922.05	-1,464.95	8,126.80	8,109.76	17.03	477.089				
3,100.00	3,098.65	2,743.37	2,686.83	8.28	9.36	179.517	7,925.75	-1,468.81	8,135.98	8,118.37	17.61	461.908				
3,200.00	3,198.56	2,841.38	2,784.63	8.56	9.71	179.489	7,929.94	-1,473.64	8,145.28	8,127.05	18.24	446.619				
3,300.00	3,298.47	2,947.35	2,890.40	8.84	10.09	179.463	7,934.49	-1,478.36	8,154.53	8,135.63	18.89	431.583				
3,400.00	3,398.39	3,146.35	3,089.11	9.13	10.80	179.421	7,942.09	-1,485.92	8,163.25	8,143.35	19.89	410.345				
3,500.00	3,498.30	3,315.61	3,258.20	9.41	11.41	179.386	7,946.76	-1,491.84	8,170.80	8,150.01	20.79	393.070				
3,600.00	3,598.21	3,429.91	3,372.40	9.70	11.82	179.360	7,949.21	-1,496.11	8,177.80	8,156.31	21.48	380.636				
3,700.00	3,698.12	3,532.51	3,474.88	9.99	12.18	179.333	7,951.25	-1,500.49	8,184.75	8,162.61	22.14	369.645				
3,800.00	3,798.03	3,644.21	3,586.44	10.29	12.58	179.300	7,953.28	-1,505.70	8,191.62	8,168.78	22.84	358.711				
3,900.00	3,897.94	3,764.08	3,706.16	10.58	13.01	179.264	7,955.22	-1,511.46	8,198.32	8,174.76	23.56	347.952				
4,000.00	3,997.85	3,903.34	3,845.33	10.88	13.51	179.237	7,957.38	-1,515.77	8,204.63	8,180.27	24.36	336.832				
4,100.00	4,097.76	4,021.04	3,963.01	11.18	13.93	179.227	7,959.11	-1,517.66	8,210.58	8,185.50	25.08	327.425				
4,200.00	4,197.68	4,132.02	4,073.96	11.48	14.33	179.220	7,960.60	-1,519.05	8,216.34	8,190.57	25.77	318.817				
4,300.00	4,297.59	4,231.41	4,173.33	11.78	14.68	179.213	7,961.89	-1,520.31	8,222.06	8,195.63	26.43	311.132				
4,400.00	4,397.50	4,322.00	4,263.91	12.08	15.00	179.207	7,963.07	-1,521.49	8,227.81	8,200.76	27.05	304.177				
4,500.00	4,497.41	4,400.96	4,342.86	12.39	15.28	179.207	7,964.41	-1,521.87	8,233.76	8,206.14	27.63	298.005				
4,600.00	4,597.32	4,487.60	4,429.48	12.69	15.58	179.213	7,966.28	-1,521.37	8,239.98	8,211.74	28.24	291.811				

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





## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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)	Reference 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	
4,700.00	4,697.23	20,261.59	12,711.02	13.00	118.60	121.983	250.21	-1,684.02	8,202.40	8,126.52	75.88	108.099		
4,800.00	4,797.14	20,263.70	12,711.12	13.31	118.63	121.925	248.10	-1,684.00	8,105.16	8,029.03	76.13	106.463		
4,900.00	4,897.05	20,265.85	12,711.23	13.62	118.65	121.865	245.95	-1,683.98	8,007.99	7,931.60	76.39	104.831		
5,000.00	4,996.97	20,268.05	12,711.35	13.92	118.68	121.804	243.76	-1,683.96	7,910.89	7,834.24	76.65	103.203		
5,100.00	5,096.88	20,305.00	12,713.60	14.23	119.18	120.774	206.88	-1,683.42	7,814.18	7,736.98	77.20	101.225		
5,200.00	5,196.79	20,305.00	12,713.60	14.55	119.18	120.774	206.88	-1,683.42	7,717.18	7,639.72	77.45	99.636		
5,300.00	5,296.70	20,305.00	12,713.60	14.86	119.18	120.774	206.88	-1,683.42	7,620.25	7,542.54	77.72	98.051		
5,400.00	5,396.61	20,305.00	12,713.60	15.17	119.18	120.774	206.88	-1,683.42	7,523.41	7,445.42	77.99	96.470		
5,500.00	5,496.52	20,305.00	12,713.60	15.48	119.18	120.774	206.88	-1,683.42	7,426.65	7,348.39	78.26	94.894		
5,600.00	5,596.43	20,305.00	12,713.60	15.79	119.18	120.774	206.88	-1,683.42	7,329.98	7,251.44	78.54	93.323		
5,700.00	5,696.34	20,305.00	12,713.60	16.11	119.18	120.774	206.88	-1,683.42	7,233.40	7,154.57	78.83	91.757		
5,800.00	5,796.26	20,305.00	12,713.60	16.42	119.18	120.774	206.88	-1,683.42	7,136.91	7,057.78	79.13	90.196		
5,900.00	5,896.17	20,305.00	12,713.60	16.74	119.18	120.774	206.88	-1,683.42	7,040.52	6,961.09	79.43	88.641		
6,000.00	5,996.08	20,305.00	12,713.60	17.05	119.18	120.774	206.88	-1,683.42	6,944.23	6,864.50	79.74	87.090		
6,100.00	6,095.99	20,305.00	12,713.60	17.37	119.18	120.774	206.88	-1,683.42	6,848.05	6,768.00	80.05	85.546		
6,200.00	6,195.90	20,305.00	12,713.60	17.68	119.18	120.774	206.88	-1,683.42	6,751.98	6,671.61	80.37	84.006		
6,300.00	6,295.81	20,305.00	12,713.60	18.00	119.18	120.774	206.88	-1,683.42	6,656.03	6,575.32	80.71	82.473		
6,400.00	6,395.72	20,305.00	12,713.60	18.32	119.18	120.774	206.88	-1,683.42	6,560.20	6,479.15	81.04	80.946		
6,500.00	6,495.63	20,316.59	12,714.40	18.63	119.33	120.448	195.32	-1,683.20	6,464.48	6,383.00	81.48	79.335		
6,600.00	6,595.55	20,328.28	12,715.21	18.95	119.49	120.119	183.66	-1,682.98	6,368.87	6,286.94	81.93	77.734		
6,700.00	6,695.46	20,339.92	12,716.01	19.27	119.64	119.789	172.05	-1,682.78	6,273.38	6,191.00	82.39	76.143		
6,800.00	6,795.37	20,351.51	12,716.81	19.59	119.80	119.459	160.49	-1,682.57	6,178.02	6,095.16	82.86	74.564		
6,900.00	6,895.28	20,363.05	12,717.60	19.91	119.95	119.129	148.98	-1,682.38	6,082.78	5,999.45	83.33	72.995		
7,000.00	6,995.19	21,094.00	12,726.58	20.23	129.79	96.147	-580.79	-1,654.88	5,987.24	5,897.82	89.42	66.954		
7,100.00	7,095.10	21,094.00	12,726.58	20.54	129.79	96.147	-580.79	-1,654.88	5,891.63	5,801.80	89.83	65.585		
7,200.00	7,195.01	21,094.00	12,726.58	20.86	129.79	96.147	-580.79	-1,654.88	5,796.17	5,705.92	90.25	64.223		
7,300.00	7,294.92	21,094.00	12,726.58	21.18	129.79	96.147	-580.79	-1,654.88	5,700.87	5,610.19	90.68	62.866		
7,400.00	7,394.84	21,094.00	12,726.58	21.50	129.79	96.147	-580.79	-1,654.88	5,605.73	5,514.60	91.13	61.517		
7,500.00	7,494.75	21,094.00	12,726.58	21.82	129.79	96.147	-580.79	-1,654.88	5,510.76	5,419.18	91.58	60.174		
7,600.00	7,594.66	21,094.00	12,726.58	22.14	129.79	96.147	-580.79	-1,654.88	5,415.97	5,323.92	92.05	58.838		
7,700.00	7,694.57	21,094.00	12,726.58	22.46	129.79	96.147	-580.79	-1,654.88	5,321.37	5,228.84	92.53	57.509		
7,800.00	7,794.48	21,094.00	12,726.58	22.78	129.79	96.147	-580.79	-1,654.88	5,226.97	5,133.95	93.03	56.187		
7,900.00	7,894.39	21,094.00	12,726.58	23.10	129.79	96.147	-580.79	-1,654.88	5,132.79	5,039.25	93.54	54.873		
8,000.00	7,994.30	21,094.00	12,726.58	23.42	129.79	96.147	-580.79	-1,654.88	5,038.83	4,944.76	94.07	53.566		
8,100.00	8,094.21	21,094.00	12,726.58	23.75	129.79	96.147	-580.79	-1,654.88	4,945.11	4,850.50	94.61	52.267		
8,200.00	8,194.13	21,094.00	12,726.58	24.07	129.79	96.147	-580.79	-1,654.88	4,851.64	4,756.46	95.17	50.977		
8,300.00	8,294.04	21,094.00	12,726.58	24.39	129.79	96.147	-580.79	-1,654.88	4,758.43	4,662.67	95.75	49.694		
8,400.00	8,393.95	21,094.00	12,726.58	24.71	129.79	96.147	-580.79	-1,654.88	4,665.50	4,569.15	96.35	48.421		
8,500.00	8,493.86	21,094.00	12,726.58	25.03	129.79	96.147	-580.79	-1,654.88	4,572.88	4,475.90	96.97	47.156		
8,600.00	8,593.77	21,094.00	12,726.58	25.35	129.79	96.147	-580.79	-1,654.88	4,480.57	4,382.95	97.62	45.900		
8,700.00	8,693.68	21,094.00	12,726.58	25.67	129.79	96.147	-580.79	-1,654.88	4,388.59	4,290.31	98.28	44.654		
8,800.00	8,793.59	21,094.00	12,726.58	26.00	129.79	96.147	-580.79	-1,654.88	4,296.98	4,198.01	98.97	43.418		
8,900.00	8,893.50	21,094.00	12,726.58	26.32	129.79	96.147	-580.79	-1,654.88	4,205.74	4,106.06	99.68	42.192		
9,000.00	8,993.42	21,094.00	12,726.58	26.64	129.79	96.147	-580.79	-1,654.88	4,114.92	4,014.50	100.42	40.976		
9,100.00	9,093.33	21,094.00	12,726.58	26.96	129.79	96.147	-580.79	-1,654.88	4,024.53	3,923.34	101.19	39.772		
9,200.00	9,193.24	21,094.00	12,726.58	27.29	129.79	96.147	-580.79	-1,654.88	3,934.60	3,832.62	101.99	38.579		
9,300.00	9,293.15	21,094.00	12,726.58	27.61	129.79	96.147	-580.79	-1,654.88	3,845.18	3,742.36	102.82	37.398		
9,400.00	9,393.06	21,094.00	12,726.58	27.93	129.79	96.147	-580.79	-1,654.88	3,756.28	3,652.60	103.68	36.229		
9,500.00	9,492.97	21,094.00	12,726.58	28.25	129.79	96.147	-580.79	-1,654.88	3,667.96	3,563.38	104.58	35.073		
9,600.00	9,592.88	21,094.00	12,726.58	28.58	129.79	96.147	-580.79	-1,654.88	3,580.25	3,474.74	105.52	33.931		
9,700.00	9,692.79	21,094.00	12,726.58	28.90	129.79	96.147	-580.79	-1,654.88	3,493.21	3,386.72	106.49	32.803		
9,800.00	9,792.71	21,094.00	12,726.58	29.22	129.79	96.147	-580.79	-1,654.88	3,406.87	3,299.36	107.50	31.690		

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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					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)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,900.00	9,892.62	21,094.00	12,726.58	29.55	129.79	96.147	-580.79	-1,654.88	3,321.30	3,212.74	108.56	30.593		
10,000.00	9,992.53	21,094.00	12,726.58	29.87	129.79	96.147	-580.79	-1,654.88	3,236.56	3,126.89	109.67	29.513		
10,100.00	10,092.44	21,093.84	12,726.59	30.19	129.78	96.152	-580.63	-1,654.88	3,152.71	3,041.90	110.82	28.450		
10,200.00	10,192.35	21,092.52	12,726.66	30.52	129.77	96.196	-579.31	-1,654.95	3,069.83	2,957.83	112.00	27.408		
10,300.00	10,292.26	21,091.20	12,726.74	30.84	129.75	96.239	-578.00	-1,655.01	2,988.00	2,874.75	113.25	26.385		
10,400.00	10,392.17	21,089.88	12,726.81	31.16	129.73	96.283	-576.68	-1,655.07	2,907.30	2,792.76	114.54	25.383		
10,500.00	10,492.08	21,088.56	12,726.88	31.49	129.71	96.326	-575.36	-1,655.13	2,827.84	2,711.95	115.88	24.402		
10,600.00	10,592.00	21,087.24	12,726.95	31.81	129.69	96.369	-574.05	-1,655.20	2,749.71	2,632.43	117.29	23.444		
10,700.00	10,691.91	21,085.92	12,727.03	32.13	129.68	96.413	-572.73	-1,655.26	2,673.05	2,554.30	118.74	22.511		
10,800.00	10,791.82	21,084.61	12,727.10	32.46	129.66	96.456	-571.42	-1,655.32	2,597.96	2,477.71	120.25	21.604		
10,900.00	10,891.73	21,083.29	12,727.17	32.78	129.64	96.500	-570.10	-1,655.38	2,524.61	2,402.80	121.82	20.725		
11,000.00	10,991.64	21,081.97	12,727.24	33.11	129.62	96.543	-568.79	-1,655.44	2,453.14	2,329.71	123.43	19.875		
11,100.00	11,091.55	21,080.65	12,727.32	33.43	129.60	96.586	-567.47	-1,655.51	2,383.73	2,258.64	125.09	19.056		
11,200.00	11,191.46	21,079.33	12,727.39	33.75	129.59	96.630	-566.16	-1,655.57	2,316.55	2,189.76	126.79	18.271		
11,300.00	11,291.37	21,078.01	12,727.46	34.08	129.57	96.673	-564.84	-1,655.63	2,251.81	2,123.28	128.52	17.520		
11,400.00	11,391.29	21,076.69	12,727.53	34.40	129.55	96.717	-563.53	-1,655.69	2,189.72	2,059.44	130.28	16.808		
11,500.00	11,491.20	21,075.37	12,727.61	34.73	129.53	96.760	-562.21	-1,655.76	2,130.51	1,998.46	132.05	16.134		
11,600.00	11,591.11	21,074.06	12,727.68	35.05	129.52	96.803	-560.90	-1,655.82	2,074.44	1,940.63	133.81	15.503		
11,700.00	11,691.02	21,072.74	12,727.75	35.38	129.50	96.847	-559.58	-1,655.88	2,021.76	1,886.21	135.55	14.915		
11,800.00	11,790.93	21,071.42	12,727.82	35.70	129.48	96.890	-558.27	-1,655.94	1,972.75	1,835.50	137.25	14.374		
11,900.00	11,890.84	21,070.10	12,727.90	36.03	129.46	96.934	-556.95	-1,656.01	1,927.68	1,788.80	138.88	13.880		
11,907.54	11,898.38	21,070.00	12,727.90	36.05	129.46	96.937	-556.85	-1,656.01	1,924.45	1,785.45	139.00	13.845		
12,000.00	11,990.80	21,067.30	12,728.05	36.33	129.42	96.203	-554.16	-1,656.14	1,886.68	1,746.29	140.39	13.438		
12,028.24	12,019.04	21,065.89	12,728.13	36.36	129.40	-93.997	-552.75	-1,656.20	1,875.84	1,735.06	140.77	13.325		
12,100.00	12,090.80	21,061.95	12,728.34	36.36	129.35	-93.867	-548.82	-1,656.39	1,849.90	1,708.23	141.67	13.058		
12,200.00	12,190.80	21,056.45	12,728.65	36.36	129.28	-93.686	-543.34	-1,656.65	1,817.86	1,675.06	142.80	12.730		
12,300.00	12,290.80	21,050.96	12,728.95	36.36	129.20	-93.505	-537.86	-1,656.91	1,790.81	1,647.05	143.76	12.457		
12,400.00	12,390.80	21,045.46	12,729.25	36.37	129.13	-93.324	-532.38	-1,657.17	1,768.99	1,624.45	144.54	12.239		
12,500.00	12,490.80	21,039.96	12,729.55	36.37	129.05	-93.143	-526.90	-1,657.43	1,752.60	1,607.48	145.12	12.077		
12,528.24	12,519.04	21,038.41	12,729.64	36.37	129.03	-93.092	-525.35	-1,657.50	1,748.98	1,603.74	145.24	12.042		
12,550.00	12,540.79	21,037.63	12,729.68	36.40	129.02	87.737	-524.57	-1,657.54	1,746.48	1,601.14	145.33	12.017		
12,600.00	12,590.61	21,038.96	12,729.61	36.63	129.04	88.181	-525.89	-1,657.48	1,741.62	1,596.02	145.60	11.962		
12,650.00	12,639.89	21,044.63	12,729.30	36.95	129.12	88.354	-531.55	-1,657.21	1,738.04	1,592.15	145.89	11.913		
12,700.00	12,688.24	21,054.61	12,728.75	37.29	129.25	88.262	-541.50	-1,656.74	1,735.73	1,589.51	146.22	11.871		
12,750.00	12,735.30	21,068.82	12,727.97	37.62	129.44	87.922	-555.67	-1,656.07	1,734.63	1,588.05	146.58	11.834		
12,773.14	12,756.55	21,076.79	12,727.53	37.78	129.55	87.687	-563.63	-1,655.69	1,734.52	1,587.75	146.77	11.818	CC	
12,800.00	12,780.72	21,087.14	12,726.96	37.96	129.69	87.356	-573.95	-1,655.20	1,734.67	1,587.68	146.98	11.802	ES	
12,850.00	12,824.15	21,094.00	12,726.58	38.29	129.79	87.040	-580.79	-1,654.88	1,735.77	1,588.42	147.35	11.780		
12,900.00	12,865.26	21,094.00	12,726.58	38.60	129.79	86.810	-580.79	-1,654.88	1,738.07	1,590.38	147.70	11.768		
12,950.00	12,903.73	21,094.00	12,726.58	38.90	129.79	86.461	-580.79	-1,654.88	1,741.56	1,593.52	148.05	11.764	SF	
13,000.00	12,939.27	21,094.00	12,726.58	39.18	129.79	85.995	-580.79	-1,654.88	1,746.21	1,597.81	148.40	11.767		
13,050.00	12,971.62	21,094.00	12,726.58	39.43	129.79	85.417	-580.79	-1,654.88	1,751.97	1,603.21	148.76	11.777		
13,100.00	13,000.52	21,094.00	12,726.58	39.65	129.79	84.731	-580.79	-1,654.88	1,758.79	1,609.68	149.10	11.796		
13,150.00	13,025.76	21,094.00	12,726.58	39.85	129.79	83.944	-580.79	-1,654.88	1,766.60	1,617.16	149.44	11.822		
13,200.00	13,047.14	21,094.00	12,726.58	40.02	129.79	83.063	-580.79	-1,654.88	1,775.33	1,625.58	149.76	11.855		
13,250.00	13,064.50	21,094.00	12,726.58	40.15	129.79	82.096	-580.79	-1,654.88	1,784.91	1,634.86	150.05	11.895		
13,300.00	13,077.71	21,094.00	12,726.58	40.26	129.79	81.051	-580.79	-1,654.88	1,795.24	1,644.92	150.32	11.943		
13,350.00	13,086.67	21,094.00	12,726.58	40.33	129.79	79.939	-580.79	-1,654.88	1,806.24	1,655.68	150.55	11.997		
13,400.00	13,091.30	21,094.00	12,726.58	40.38	129.79	78.770	-580.79	-1,654.88	1,817.81	1,667.05	150.76	12.058		
13,428.24	13,092.00	21,094.00	12,726.58	40.39	129.79	78.090	-580.79	-1,654.88	1,824.56	1,673.70	150.85	12.095		
13,500.00	13,092.00	21,094.00	12,726.58	40.40	129.79	78.090	-580.79	-1,654.88	1,843.20	1,692.19	151.01	12.206		
13,600.00	13,092.00	21,094.00	12,726.58	40.43	129.79	78.090	-580.79	-1,654.88	1,873.45	1,722.45	151.00	12.407		

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





## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> Cattlemen Fed Com - 432H - OH / 68636 - Surveys (H&P 625)												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 154-MWD+HDGM												<b>Offset Well Error:</b>	1.00 usft
<b>Reference</b>												<b>Rule Assigned:</b>	
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
				<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
13,700.00	13,092.00	21,094.00	12,726.58	40.46	129.79	78.090	-580.79	-1,654.88	1,908.48	1,757.73	150.75	12.660	
13,800.00	13,092.00	21,094.00	12,726.58	40.50	129.79	78.090	-580.79	-1,654.88	1,948.01	1,797.75	150.26	12.964	
13,900.00	13,092.00	21,094.00	12,726.58	40.53	129.79	78.090	-580.79	-1,654.88	1,991.78	1,842.22	149.57	13.317	
14,000.00	13,092.00	21,094.00	12,726.58	40.58	129.79	78.090	-580.79	-1,654.88	2,039.52	1,890.83	148.70	13.716	
14,100.00	13,092.00	21,094.00	12,726.58	40.63	129.79	78.090	-580.79	-1,654.88	2,090.96	1,943.28	147.68	14.159	
14,200.00	13,092.00	21,094.00	12,726.58	40.69	129.79	78.090	-580.79	-1,654.88	2,145.83	1,999.28	146.55	14.642	
14,300.00	13,092.00	21,094.00	12,726.58	40.76	129.79	78.090	-580.79	-1,654.88	2,203.87	2,058.54	145.32	15.165	
14,400.00	13,092.00	21,094.00	12,726.58	40.85	129.79	78.090	-580.79	-1,654.88	2,264.84	2,120.80	144.03	15.724	
14,500.00	13,092.00	21,094.00	12,726.58	40.95	129.79	78.090	-580.79	-1,654.88	2,328.51	2,185.81	142.70	16.318	
14,600.00	13,092.00	21,094.00	12,726.58	41.10	129.79	78.090	-580.79	-1,654.88	2,394.66	2,253.33	141.33	16.943	
14,700.00	13,092.00	21,094.00	12,726.58	41.29	129.79	78.090	-580.79	-1,654.88	2,463.10	2,323.14	139.96	17.599	
14,800.00	13,092.00	21,094.00	12,726.58	41.57	129.79	78.090	-580.79	-1,654.88	2,533.64	2,395.05	138.59	18.282	
14,900.00	13,092.00	21,094.00	12,726.58	41.99	129.79	78.090	-580.79	-1,654.88	2,606.10	2,468.88	137.22	18.991	
15,000.00	13,092.00	21,094.00	12,726.58	42.60	129.79	78.090	-580.79	-1,654.88	2,680.34	2,544.46	135.88	19.725	
15,100.00	13,092.00	21,094.00	12,726.58	43.42	129.79	78.090	-580.79	-1,654.88	2,756.21	2,621.64	134.57	20.481	
15,200.00	13,092.00	21,094.00	12,726.58	44.43	129.79	78.090	-580.79	-1,654.88	2,833.58	2,700.29	133.29	21.259	
15,300.00	13,092.00	21,094.00	12,726.58	45.56	129.79	78.090	-580.79	-1,654.88	2,912.32	2,780.27	132.05	22.055	
15,400.00	13,092.00	21,094.00	12,726.58	46.76	129.79	78.090	-580.79	-1,654.88	2,992.33	2,861.49	130.84	22.870	
15,500.00	13,092.00	21,094.00	12,726.58	48.01	129.79	78.090	-580.79	-1,654.88	3,073.52	2,943.85	129.67	23.702	
15,600.00	13,092.00	21,094.00	12,726.58	49.30	129.79	78.090	-580.79	-1,654.88	3,155.78	3,027.23	128.55	24.549	
15,700.00	13,092.00	21,094.00	12,726.58	50.61	129.79	78.090	-580.79	-1,654.88	3,239.05	3,111.58	127.47	25.410	
15,800.00	13,092.00	21,094.00	12,726.58	51.93	129.79	78.090	-580.79	-1,654.88	3,323.24	3,196.80	126.43	26.285	
15,900.00	13,092.00	21,094.00	12,726.58	53.27	129.79	78.090	-580.79	-1,654.88	3,408.28	3,282.84	125.43	27.172	
16,000.00	13,092.00	21,094.00	12,726.58	54.61	129.79	78.090	-580.79	-1,654.88	3,494.11	3,369.63	124.48	28.070	
16,100.00	13,092.00	21,094.00	12,726.58	55.97	129.79	78.090	-580.79	-1,654.88	3,580.68	3,457.12	123.56	28.979	
16,200.00	13,092.00	21,094.00	12,726.58	57.33	129.79	78.090	-580.79	-1,654.88	3,667.93	3,545.25	122.69	29.897	
16,300.00	13,092.00	21,094.00	12,726.58	58.69	129.79	78.090	-580.79	-1,654.88	3,755.82	3,633.97	121.85	30.824	
16,400.00	13,092.00	21,094.00	12,726.58	60.06	129.79	78.090	-580.79	-1,654.88	3,844.30	3,723.25	121.05	31.759	
16,500.00	13,092.00	21,094.00	12,726.58	61.44	129.79	78.090	-580.79	-1,654.88	3,933.33	3,813.05	120.28	32.701	
16,600.00	13,092.00	21,094.00	12,726.58	62.81	129.79	78.090	-580.79	-1,654.88	4,022.88	3,903.33	119.55	33.650	
16,700.00	13,092.00	21,094.00	12,726.58	64.20	129.79	78.090	-580.79	-1,654.88	4,112.91	3,994.05	118.85	34.605	
16,800.00	13,092.00	21,094.00	12,726.58	65.58	129.79	78.090	-580.79	-1,654.88	4,203.39	4,085.20	118.19	35.566	
16,900.00	13,092.00	21,094.00	12,726.58	66.97	129.79	78.090	-580.79	-1,654.88	4,294.29	4,176.74	117.55	36.531	
17,000.00	13,092.00	21,094.00	12,726.58	68.36	129.79	78.090	-580.79	-1,654.88	4,385.59	4,268.64	116.94	37.502	
17,100.00	13,092.00	21,094.00	12,726.58	69.75	129.79	78.090	-580.79	-1,654.88	4,477.26	4,360.89	116.36	38.476	
17,200.00	13,092.00	21,094.00	12,726.58	71.14	129.79	78.090	-580.79	-1,654.88	4,569.28	4,453.47	115.81	39.454	
17,300.00	13,092.00	21,094.00	12,726.58	72.54	129.79	78.090	-580.79	-1,654.88	4,661.63	4,546.34	115.28	40.436	
17,400.00	13,092.00	21,094.00	12,726.58	73.94	129.79	78.090	-580.79	-1,654.88	4,754.28	4,639.50	114.78	41.420	
17,500.00	13,092.00	21,094.00	12,726.58	75.34	129.79	78.090	-580.79	-1,654.88	4,847.23	4,732.93	114.30	42.407	
17,600.00	13,092.00	21,094.00	12,726.58	76.74	129.79	78.090	-580.79	-1,654.88	4,940.46	4,826.61	113.84	43.396	
17,700.00	13,092.00	21,094.00	12,726.58	78.14	129.79	78.090	-580.79	-1,654.88	5,033.94	4,920.53	113.41	44.388	
17,800.00	13,092.00	21,094.00	12,726.58	79.55	129.79	78.090	-580.79	-1,654.88	5,127.67	5,014.68	112.99	45.380	
17,900.00	13,092.00	21,094.00	12,726.58	80.95	129.79	78.090	-580.79	-1,654.88	5,221.64	5,109.04	112.60	46.375	
18,000.00	13,092.00	21,094.00	12,726.58	82.36	129.79	78.090	-580.79	-1,654.88	5,315.82	5,203.60	112.22	47.370	
18,100.00	13,092.00	21,094.00	12,726.58	83.76	129.79	78.090	-580.79	-1,654.88	5,410.21	5,298.36	111.86	48.367	
18,200.00	13,092.00	21,094.00	12,726.58	85.17	129.79	78.090	-580.79	-1,654.88	5,504.80	5,393.29	111.51	49.364	
18,300.00	13,092.00	21,094.00	12,726.58	86.58	129.79	78.090	-580.79	-1,654.88	5,599.58	5,488.39	111.19	50.361	
18,400.00	13,092.00	21,094.00	12,726.58	87.99	129.79	78.090	-580.79	-1,654.88	5,694.54	5,583.66	110.88	51.359	
18,500.00	13,092.00	21,094.00	12,726.58	89.40	129.79	78.090	-580.79	-1,654.88	5,789.67	5,679.09	110.58	52.358	
18,600.00	13,092.00	21,094.00	12,726.58	90.81	129.79	78.090	-580.79	-1,654.88	5,884.96	5,774.66	110.30	53.356	
18,700.00	13,092.00	21,094.00	12,726.58	92.23	129.79	78.090	-580.79	-1,654.88	5,980.40	5,870.37	110.03	54.353	
18,800.00	13,092.00	21,094.00	12,726.58	93.64	129.79	78.090	-580.79	-1,654.88	6,075.99	5,966.21	109.77	55.351	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> Cattlemen Fed Com - 432H - OH / 68636 - Surveys (H&P 625)												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 154-MWD+HDGM												<b>Offset Well Error:</b>	1.00 usft
<b>Rule Assigned:</b>												<b>Warning</b>	
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	
18,900.00	13,092.00	21,094.00	12,726.58	95.06	129.79	78.090	-580.79	-1,654.88	6,171.72	6,062.19	109.53	56.348	
19,000.00	13,092.00	21,094.00	12,726.58	96.47	129.79	78.090	-580.79	-1,654.88	6,267.58	6,158.28	109.30	57.345	
19,100.00	13,092.00	21,094.00	12,726.58	97.89	129.79	78.090	-580.79	-1,654.88	6,363.57	6,254.49	109.08	58.340	
19,200.00	13,092.00	21,094.00	12,726.58	99.30	129.79	78.090	-580.79	-1,654.88	6,459.68	6,350.81	108.87	59.335	
19,300.00	13,092.00	21,094.00	12,726.58	100.72	129.79	78.090	-580.79	-1,654.88	6,555.91	6,447.24	108.67	60.329	
19,400.00	13,092.00	21,094.00	12,726.58	102.14	129.79	78.090	-580.79	-1,654.88	6,652.24	6,543.76	108.48	61.322	
19,500.00	13,092.00	21,094.00	12,726.58	103.55	129.79	78.090	-580.79	-1,654.88	6,748.69	6,640.39	108.30	62.313	
19,600.00	13,092.00	21,094.00	12,726.58	104.97	129.79	78.090	-580.79	-1,654.88	6,845.24	6,737.10	108.13	63.304	
19,700.00	13,092.00	21,094.00	12,726.58	106.39	129.79	78.090	-580.79	-1,654.88	6,941.88	6,833.91	107.97	64.293	
19,800.00	13,092.00	21,094.00	12,726.58	107.81	129.79	78.090	-580.79	-1,654.88	7,038.62	6,930.80	107.82	65.280	
19,900.00	13,092.00	21,094.00	12,726.58	109.23	129.79	78.090	-580.79	-1,654.88	7,135.45	7,027.77	107.68	66.266	
20,000.00	13,092.00	21,094.00	12,726.58	110.65	129.79	78.090	-580.79	-1,654.88	7,232.36	7,124.82	107.54	67.251	
20,100.00	13,092.00	21,094.00	12,726.58	112.07	129.79	78.090	-580.79	-1,654.88	7,329.36	7,221.95	107.42	68.234	
20,200.00	13,092.00	21,094.00	12,726.58	113.49	129.79	78.090	-580.79	-1,654.88	7,426.44	7,319.14	107.30	69.215	
20,300.00	13,092.00	21,094.00	12,726.58	114.91	129.79	78.090	-580.79	-1,654.88	7,523.59	7,416.41	107.18	70.194	
20,400.00	13,092.00	21,094.00	12,726.58	116.34	129.79	78.090	-580.79	-1,654.88	7,620.82	7,513.75	107.08	71.171	
20,500.00	13,092.00	21,094.00	12,726.58	117.76	129.79	78.090	-580.79	-1,654.88	7,718.12	7,611.14	106.98	72.147	
20,600.00	13,092.00	21,094.00	12,726.58	119.18	129.79	78.090	-580.79	-1,654.88	7,815.49	7,708.60	106.89	73.120	
20,700.00	13,092.00	21,094.00	12,726.58	120.60	129.79	78.090	-580.79	-1,654.88	7,912.92	7,806.12	106.80	74.092	
20,800.00	13,092.00	21,094.00	12,726.58	122.03	129.79	78.090	-580.79	-1,654.88	8,010.42	7,903.70	106.72	75.061	
20,900.00	13,092.00	21,094.00	12,726.58	123.45	129.79	78.090	-580.79	-1,654.88	8,107.97	8,001.33	106.64	76.029	
21,000.00	13,092.00	21,094.00	12,726.58	124.87	129.79	78.090	-580.79	-1,654.88	8,205.59	8,099.01	106.57	76.994	
21,100.00	13,092.00	21,094.00	12,726.58	126.30	129.79	78.090	-580.79	-1,654.88	8,303.26	8,196.75	106.51	77.957	
21,200.00	13,092.00	21,094.00	12,726.58	127.72	129.79	78.090	-580.79	-1,654.88	8,400.99	8,294.53	106.45	78.917	
21,300.00	13,092.00	21,094.00	12,726.58	129.15	129.79	78.090	-580.79	-1,654.88	8,498.77	8,392.37	106.40	79.876	
21,400.00	13,092.00	21,094.00	12,726.58	130.57	129.79	78.090	-580.79	-1,654.88	8,596.60	8,490.25	106.35	80.832	
21,500.00	13,092.00	21,094.00	12,726.58	132.00	129.79	78.090	-580.79	-1,654.88	8,694.48	8,588.17	106.31	81.786	
21,600.00	13,092.00	21,094.00	12,726.58	133.42	129.79	78.090	-580.79	-1,654.88	8,792.41	8,686.14	106.27	82.737	
21,700.00	13,092.00	21,094.00	12,726.58	134.85	129.79	78.090	-580.79	-1,654.88	8,890.38	8,784.15	106.23	83.686	
21,800.00	13,092.00	21,094.00	12,726.58	136.27	129.79	78.090	-580.79	-1,654.88	8,988.40	8,882.20	106.21	84.633	
21,900.00	13,092.00	21,094.00	12,726.58	137.70	129.79	78.090	-580.79	-1,654.88	9,086.46	8,980.28	106.18	85.577	
22,000.00	13,092.00	21,094.00	12,726.58	139.12	129.79	78.090	-580.79	-1,654.88	9,184.57	9,078.41	106.16	86.518	
22,100.00	13,092.00	21,094.00	12,726.58	140.55	129.79	78.090	-580.79	-1,654.88	9,282.71	9,176.57	106.14	87.457	
22,200.00	13,092.00	21,094.00	12,726.58	141.98	129.79	78.090	-580.79	-1,654.88	9,380.89	9,274.77	106.13	88.394	
22,300.00	13,092.00	21,094.00	12,726.58	143.40	129.79	78.090	-580.79	-1,654.88	9,479.12	9,373.00	106.12	89.327	
22,400.00	13,092.00	21,094.00	12,726.58	144.83	129.79	78.090	-580.79	-1,654.88	9,577.37	9,471.26	106.11	90.259	
22,500.00	13,092.00	21,094.00	12,726.58	146.26	129.79	78.090	-580.79	-1,654.88	9,675.67	9,569.56	106.11	91.187	
22,600.00	13,092.00	21,094.00	12,726.58	147.69	129.79	78.090	-580.79	-1,654.88	9,774.00	9,667.89	106.11	92.113	
22,700.00	13,092.00	21,094.00	12,726.58	149.11	129.79	78.090	-580.79	-1,654.88	9,872.36	9,766.25	106.11	93.037	
22,728.24	13,092.00	21,094.00	12,726.58	149.52	129.79	78.090	-580.79	-1,654.88	9,900.14	9,794.03	106.11	93.297	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> Cattlemen Fed Com - 433H - OH / 68696 - Surveys (H&P 656)													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 188-MWD+HDCM													<b>Offset Well Error:</b> 1.00 usft
<b>Rule Assigned:</b>													
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	54.01	0.01	1.00	1.00	-0.778	7,906.28	-107.31	7,907.01				
100.00	100.00	154.04	100.04	1.08	1.03	-0.775	7,906.28	-106.89	7,907.01	7,904.89	2.11	3,744.003	
131.47	131.47	185.51	131.51	1.21	1.04	-0.773	7,906.29	-106.67	7,907.01	7,904.76	2.25	3,515.754	
200.00	200.00	240.91	186.91	1.60	1.11	-0.770	7,906.34	-106.23	7,907.06	7,904.35	2.71	2,920.538	
300.00	300.00	321.02	267.01	2.01	1.26	-0.765	7,906.58	-105.56	7,907.35	7,904.08	3.27	2,418.838	
400.00	400.00	413.79	359.78	2.35	1.49	-0.759	7,907.04	-104.69	7,907.83	7,904.00	3.84	2,060.569	
500.00	500.00	510.22	456.20	2.65	1.76	-0.751	7,907.56	-103.62	7,908.36	7,903.95	4.41	1,793.250	
600.00	600.00	589.74	535.72	2.93	2.00	-0.743	7,908.11	-102.63	7,909.04	7,904.11	4.92	1,606.334	
700.00	700.00	667.35	613.32	3.18	2.24	-0.736	7,908.86	-101.59	7,909.99	7,904.57	5.42	1,459.371	
800.00	800.00	699.00	644.96	3.41	2.34	-0.733	7,909.23	-101.15	7,911.40	7,905.64	5.76	1,374.255	
900.00	900.00	793.80	739.74	3.64	2.65	-0.730	7,910.77	-100.84	7,913.04	7,906.76	6.28	1,260.010	
1,000.00	1,000.00	882.00	827.90	3.85	2.93	-0.741	7,912.87	-102.39	7,915.41	7,908.63	6.78	1,168.036	
1,100.00	1,100.00	920.77	866.64	4.05	3.06	-0.749	7,913.97	-103.51	7,918.09	7,910.98	7.10	1,114.773	
1,200.00	1,200.00	995.62	941.41	4.24	3.30	-0.767	7,916.26	-105.96	7,921.19	7,913.65	7.54	1,050.556	
1,300.00	1,300.00	1,072.00	1,017.70	4.43	3.55	-0.788	7,918.84	-108.86	7,924.61	7,916.64	7.98	993.435	
1,400.00	1,400.00	1,455.87	1,401.27	4.61	4.86	-0.863	7,925.51	-119.43	7,926.41	7,916.95	9.46	837.973	
1,424.43	1,424.43	1,479.03	1,424.43	4.65	4.93	-0.863	7,925.51	-119.35	7,926.41	7,916.83	9.58	827.325	
1,500.00	1,500.00	1,550.67	1,496.07	4.78	5.18	-0.862	7,925.53	-119.22	7,926.43	7,916.47	9.96	795.999	
1,600.00	1,599.98	1,648.13	1,593.53	4.98	5.51	-170.845	7,925.60	-119.28	7,928.22	7,917.74	10.48	756.367	
1,620.70	1,620.67	1,669.18	1,614.58	4.99	5.59	-170.843	7,925.62	-119.30	7,929.03	7,918.46	10.57	750.358	
1,700.00	1,699.89	1,749.80	1,695.20	5.07	5.86	-170.848	7,925.67	-119.36	7,932.38	7,921.45	10.93	725.686	
1,800.00	1,799.81	1,854.90	1,800.30	5.23	6.23	-170.854	7,925.71	-119.58	7,936.57	7,925.12	11.45	693.166	
1,900.00	1,899.72	1,963.09	1,908.48	5.41	6.60	-170.870	7,925.62	-121.05	7,940.68	7,928.67	12.00	661.683	
2,000.00	1,999.63	2,037.10	1,982.47	5.60	6.86	-170.886	7,925.59	-122.77	7,944.84	7,932.39	12.45	638.290	
2,100.00	2,099.54	2,101.39	2,046.74	5.80	7.08	-170.902	7,925.84	-124.49	7,949.44	7,936.57	12.87	617.602	
2,200.00	2,199.45	2,177.00	2,122.31	6.02	7.34	-170.921	7,926.51	-126.74	7,954.50	7,941.15	13.35	596.037	
2,300.00	2,299.36	2,285.05	2,230.30	6.24	7.72	-170.949	7,927.56	-129.88	7,959.69	7,945.75	13.95	570.768	
2,400.00	2,399.27	2,366.00	2,311.23	6.47	8.00	-170.967	7,928.13	-131.88	7,964.64	7,950.19	14.46	550.838	
2,500.00	2,499.18	2,441.72	2,386.93	6.72	8.27	-170.985	7,928.87	-133.87	7,969.88	7,954.91	14.96	532.618	
2,600.00	2,599.10	2,496.39	2,441.55	6.96	8.46	-171.000	7,929.76	-135.65	7,975.73	7,960.33	15.40	517.907	
2,700.00	2,699.01	2,555.00	2,500.11	7.22	8.67	-171.019	7,931.06	-137.86	7,982.15	7,966.29	15.86	503.415	
2,800.00	2,798.92	2,647.06	2,592.07	7.48	9.00	-171.048	7,933.37	-141.36	7,988.89	7,972.45	16.44	485.966	
2,900.00	2,898.83	2,744.00	2,688.93	7.74	9.34	-171.075	7,935.82	-144.54	7,995.64	7,978.59	17.05	469.087	
3,000.00	2,998.74	2,840.88	2,785.74	8.01	9.69	-171.099	7,938.32	-147.22	8,002.42	7,984.77	17.66	453.249	
3,100.00	3,098.65	2,934.00	2,878.80	8.28	10.02	-171.118	7,940.78	-149.34	8,009.27	7,991.02	18.26	438.700	
3,200.00	3,198.56	3,013.83	2,958.58	8.56	10.30	-171.135	7,943.02	-151.32	8,016.29	7,997.48	18.81	426.075	
3,300.00	3,298.47	3,092.38	3,037.05	8.84	10.58	-171.158	7,945.42	-153.97	8,023.58	8,004.21	19.37	414.220	
3,400.00	3,398.39	3,183.70	3,128.24	9.13	10.91	-171.188	7,948.40	-157.64	8,031.08	8,011.10	19.98	402.026	
3,500.00	3,498.30	3,283.24	3,227.66	9.41	11.27	-171.218	7,951.67	-161.36	8,038.60	8,017.98	20.62	389.922	
3,600.00	3,598.21	3,364.11	3,308.44	9.70	11.56	-171.241	7,954.39	-164.06	8,046.21	8,025.02	21.19	379.731	
3,700.00	3,698.12	3,437.38	3,381.63	9.99	11.82	-171.258	7,957.11	-166.10	8,054.13	8,032.39	21.74	370.532	
3,800.00	3,798.03	3,517.60	3,461.76	10.29	12.11	-171.274	7,960.35	-167.89	8,062.37	8,040.06	22.31	361.355	
3,900.00	3,897.94	3,643.73	3,587.76	10.58	12.56	-171.302	7,965.33	-171.02	8,070.54	8,047.48	23.06	350.016	
4,000.00	3,997.85	3,747.94	3,691.85	10.88	12.94	-171.328	7,969.18	-174.15	8,078.46	8,054.73	23.73	340.500	
4,100.00	4,097.76	3,848.52	3,792.31	11.18	13.30	-171.352	7,972.94	-177.05	8,086.42	8,062.04	24.38	331.662	
4,200.00	4,197.68	3,955.30	3,898.98	11.48	13.68	-171.378	7,976.86	-180.01	8,094.32	8,069.25	25.06	322.968	
4,300.00	4,297.59	4,140.38	4,083.83	11.78	14.35	-171.435	7,982.62	-187.08	8,101.72	8,075.69	26.03	311.198	
4,400.00	4,397.50	4,256.08	4,199.33	12.08	14.77	-171.484	7,985.33	-193.35	8,108.37	8,081.61	26.75	303.093	
4,500.00	4,497.41	4,361.59	4,304.67	12.39	15.15	-171.527	7,987.73	-198.85	8,114.94	8,087.51	27.43	295.798	
4,600.00	4,597.32	4,466.00	4,409.00	12.69	15.53	-171.569	7,990.00	-203.75	8,121.10	8,093.76	28.10	288.500	
4,700.00	4,697.23	4,570.00	4,513.00	13.00	15.91	-171.611	7,992.23	-208.75	8,127.31	8,099.99	28.77	281.202	
4,800.00	4,797.14	4,673.00	4,616.00	13.31	16.29	-171.653	7,994.43	-213.75	8,133.51	8,106.19	29.44	273.904	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> Cattlemen Fed Com - 433H - OH / 68696 - Surveys (H&P 656)												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 188-MWD+HDCM												<b>Offset Well Error:</b>	1.00 usft
<b>Reference</b>												<b>Rule Assigned:</b>	
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Semi Major Axis</b>			<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
				<b>Reference</b>	<b>Offset</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
4,900.00	4,897.05	20,816.00	12,700.50	13.62	124.17	140.100	-130.23	-312.75	7,810.73	7,733.90	76.83	101.657	
5,000.00	4,996.97	20,816.00	12,700.50	13.92	124.17	140.100	-130.23	-312.75	7,710.95	7,633.95	77.00	100.139	
5,100.00	5,096.88	20,816.00	12,700.50	14.23	124.17	140.100	-130.23	-312.75	7,611.18	7,534.01	77.17	98.624	
5,200.00	5,196.79	20,816.00	12,700.50	14.55	124.17	140.100	-130.23	-312.75	7,511.41	7,434.07	77.35	97.112	
5,300.00	5,296.70	20,816.00	12,700.50	14.86	124.17	140.100	-130.23	-312.75	7,411.65	7,334.13	77.52	95.604	
5,400.00	5,396.61	20,816.00	12,700.50	15.17	124.17	140.100	-130.23	-312.75	7,311.90	7,234.19	77.70	94.100	
5,500.00	5,496.52	20,816.00	12,700.50	15.48	124.17	140.100	-130.23	-312.75	7,212.15	7,134.26	77.89	92.599	
5,600.00	5,596.43	20,816.00	12,700.50	15.79	124.17	140.100	-130.23	-312.75	7,112.41	7,034.34	78.07	91.102	
5,700.00	5,696.34	20,816.00	12,700.50	16.11	124.17	140.100	-130.23	-312.75	7,012.68	6,934.42	78.26	89.609	
5,800.00	5,796.26	20,816.00	12,700.50	16.42	124.17	140.100	-130.23	-312.75	6,912.95	6,834.50	78.45	88.120	
5,900.00	5,896.17	20,816.00	12,700.50	16.74	124.17	140.100	-130.23	-312.75	6,813.23	6,734.59	78.64	86.636	
6,000.00	5,996.08	20,816.00	12,700.50	17.05	124.17	140.100	-130.23	-312.75	6,713.52	6,634.68	78.84	85.155	
6,100.00	6,095.99	20,851.90	12,700.51	17.37	124.65	137.193	-165.93	-308.97	6,613.42	6,534.10	79.32	83.374	
6,200.00	6,195.90	20,853.11	12,700.52	17.68	124.67	137.088	-167.13	-308.87	6,513.70	6,434.16	79.53	81.898	
6,300.00	6,295.81	20,854.35	12,700.53	18.00	124.68	136.981	-168.36	-308.76	6,413.98	6,334.23	79.75	80.427	
6,400.00	6,395.72	20,855.61	12,700.54	18.32	124.70	136.870	-169.62	-308.66	6,314.28	6,234.31	79.97	78.961	
6,500.00	6,495.63	20,856.89	12,700.55	18.63	124.72	136.757	-170.90	-308.56	6,214.58	6,134.39	80.19	77.499	
6,600.00	6,595.55	20,858.20	12,700.57	18.95	124.74	136.641	-172.21	-308.45	6,114.89	6,034.48	80.41	76.043	
6,700.00	6,695.46	20,859.55	12,700.58	19.27	124.75	136.522	-173.54	-308.35	6,015.21	5,934.57	80.64	74.592	
6,800.00	6,795.37	20,860.91	12,700.60	19.59	124.77	136.399	-174.91	-308.24	5,915.54	5,834.67	80.87	73.146	
6,900.00	6,895.28	20,862.31	12,700.61	19.91	124.79	136.274	-176.31	-308.14	5,815.88	5,734.78	81.11	71.706	
7,000.00	6,995.19	20,863.74	12,700.63	20.23	124.81	136.145	-177.73	-308.03	5,716.24	5,634.89	81.35	70.271	
7,100.00	7,095.10	20,865.21	12,700.65	20.54	124.83	136.012	-179.19	-307.93	5,616.60	5,535.01	81.59	68.842	
7,200.00	7,195.01	20,866.70	12,700.67	20.86	124.85	135.876	-180.68	-307.82	5,516.97	5,435.14	81.83	67.418	
7,300.00	7,294.92	20,868.23	12,700.69	21.18	124.87	135.736	-182.21	-307.72	5,417.36	5,335.28	82.08	66.000	
7,400.00	7,394.84	20,869.80	12,700.72	21.50	124.89	135.592	-183.77	-307.61	5,317.76	5,235.42	82.33	64.588	
7,500.00	7,494.75	20,871.40	12,700.74	21.82	124.91	135.443	-185.37	-307.51	5,218.17	5,135.58	82.59	63.182	
7,600.00	7,594.66	20,873.04	12,700.77	22.14	124.94	135.290	-187.00	-307.40	5,118.60	5,035.75	82.85	61.782	
7,700.00	7,694.57	20,874.71	12,700.80	22.46	124.96	135.133	-188.67	-307.30	5,019.04	4,935.93	83.11	60.388	
7,800.00	7,794.48	20,876.43	12,700.83	22.78	124.98	134.971	-190.39	-307.20	4,919.50	4,836.12	83.38	59.001	
7,900.00	7,894.39	20,910.00	12,701.67	23.10	125.43	131.612	-223.92	-305.83	4,820.33	4,736.42	83.91	57.445	
8,000.00	7,994.30	20,910.00	12,701.67	23.42	125.43	131.612	-223.92	-305.83	4,720.79	4,636.61	84.17	56.084	
8,100.00	8,094.21	20,910.00	12,701.67	23.75	125.43	131.612	-223.92	-305.83	4,621.26	4,536.82	84.44	54.729	
8,200.00	8,194.13	20,910.00	12,701.67	24.07	125.43	131.612	-223.92	-305.83	4,521.76	4,437.05	84.71	53.381	
8,300.00	8,294.04	20,910.00	12,701.67	24.39	125.43	131.612	-223.92	-305.83	4,422.28	4,337.30	84.98	52.039	
8,400.00	8,393.95	20,910.00	12,701.67	24.71	125.43	131.612	-223.92	-305.83	4,322.82	4,237.56	85.26	50.703	
8,500.00	8,493.86	20,910.00	12,701.67	25.03	125.43	131.612	-223.92	-305.83	4,223.39	4,137.85	85.54	49.374	
8,600.00	8,593.77	20,910.00	12,701.67	25.35	125.43	131.612	-223.92	-305.83	4,123.98	4,038.16	85.82	48.051	
8,700.00	8,693.68	20,910.00	12,701.67	25.67	125.43	131.612	-223.92	-305.83	4,024.61	3,938.49	86.11	46.735	
8,800.00	8,793.59	20,910.00	12,701.67	26.00	125.43	131.612	-223.92	-305.83	3,925.27	3,838.86	86.41	45.426	
8,900.00	8,893.50	20,910.00	12,701.67	26.32	125.43	131.612	-223.92	-305.83	3,825.96	3,739.25	86.71	44.124	
9,000.00	8,993.42	20,910.00	12,701.67	26.64	125.43	131.612	-223.92	-305.83	3,726.68	3,639.67	87.01	42.828	
9,100.00	9,093.33	20,910.00	12,701.67	26.96	125.43	131.612	-223.92	-305.83	3,627.45	3,540.13	87.33	41.540	
9,200.00	9,193.24	20,910.00	12,701.67	27.29	125.43	131.612	-223.92	-305.83	3,528.26	3,440.62	87.64	40.258	
9,300.00	9,293.15	20,910.00	12,701.67	27.61	125.43	131.612	-223.92	-305.83	3,429.12	3,341.16	87.96	38.983	
9,400.00	9,393.06	20,910.00	12,701.67	27.93	125.43	131.612	-223.92	-305.83	3,330.03	3,241.74	88.29	37.716	
9,500.00	9,492.97	20,910.00	12,701.67	28.25	125.43	131.612	-223.92	-305.83	3,231.00	3,142.37	88.63	36.455	
9,600.00	9,592.88	20,910.00	12,701.67	28.58	125.43	131.612	-223.92	-305.83	3,132.03	3,043.06	88.97	35.202	
9,700.00	9,692.79	20,910.00	12,701.67	28.90	125.43	131.612	-223.92	-305.83	3,033.12	2,943.80	89.32	33.956	
9,800.00	9,792.71	20,910.00	12,701.67	29.22	125.43	131.612	-223.92	-305.83	2,934.29	2,844.61	89.69	32.718	
9,900.00	9,892.62	20,910.00	12,701.67	29.55	125.43	131.612	-223.92	-305.83	2,835.54	2,745.49	90.06	31.487	
10,000.00	9,992.53	20,910.00	12,701.67	29.87	125.43	131.612	-223.92	-305.83	2,736.89	2,646.45	90.44	30.263	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> Cattlemen Fed Com - 433H - OH / 68696 - Surveys (H&P 656)												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 188-MWD+HDGM												<b>Offset Well Error:</b>	1.00 usft
<b>Reference</b>												<b>Rule Assigned:</b>	
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
				<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
10,100.00	10,092.44	20,935.54	12,702.62	30.19	125.78	128.826	-249.44	-305.42	2,638.07	2,547.01	91.06	28.970	
10,200.00	10,192.35	20,939.52	12,702.78	30.52	125.83	128.375	-253.42	-305.39	2,539.53	2,448.02	91.51	27.753	
10,300.00	10,292.26	20,943.65	12,702.97	30.84	125.89	127.904	-257.53	-305.36	2,441.09	2,349.13	91.97	26.543	
10,400.00	10,392.17	20,947.92	12,703.16	31.16	125.94	127.411	-261.80	-305.33	2,342.78	2,250.33	92.45	25.341	
10,500.00	10,492.08	20,952.34	12,703.37	31.49	126.00	126.895	-266.22	-305.32	2,244.59	2,151.64	92.96	24.147	
10,600.00	10,592.00	20,956.93	12,703.59	31.81	126.06	126.354	-270.80	-305.31	2,146.55	2,053.07	93.49	22.961	
10,700.00	10,691.91	20,961.69	12,703.83	32.13	126.13	125.788	-275.56	-305.32	2,048.69	1,954.64	94.05	21.783	
10,800.00	10,791.82	20,966.63	12,704.08	32.46	126.19	125.193	-280.49	-305.34	1,951.01	1,856.37	94.64	20.614	
10,900.00	10,891.73	20,971.76	12,704.36	32.78	126.26	124.568	-285.62	-305.37	1,853.56	1,758.28	95.28	19.453	
11,000.00	10,991.64	20,977.10	12,704.65	33.11	126.34	123.912	-290.94	-305.41	1,756.37	1,660.39	95.97	18.301	
11,100.00	11,091.55	20,982.65	12,704.97	33.43	126.41	123.221	-296.49	-305.47	1,659.47	1,562.75	96.72	17.157	
11,200.00	11,191.46	21,004.00	12,706.31	33.75	126.70	120.497	-317.79	-305.83	1,563.07	1,465.36	97.71	15.998	
11,300.00	11,291.37	21,004.00	12,706.31	34.08	126.70	120.497	-317.79	-305.83	1,466.87	1,368.31	98.56	14.882	
11,400.00	11,391.29	21,004.00	12,706.31	34.40	126.70	120.497	-317.79	-305.83	1,371.22	1,271.69	99.53	13.777	
11,500.00	11,491.20	21,009.60	12,706.68	34.73	126.77	119.766	-323.37	-305.96	1,276.23	1,175.53	100.70	12.674	
11,600.00	11,591.11	21,020.72	12,707.41	35.05	126.92	118.293	-334.48	-306.21	1,181.97	1,079.86	102.11	11.576	
11,700.00	11,691.02	21,031.72	12,708.12	35.38	127.07	116.814	-345.44	-306.47	1,088.62	984.87	103.75	10.493	
11,800.00	11,790.93	21,042.58	12,708.82	35.70	127.22	115.332	-356.28	-306.74	996.46	890.76	105.70	9.427	
11,900.00	11,890.84	21,053.32	12,709.51	36.03	127.36	113.848	-366.99	-307.01	905.83	797.78	108.05	8.383	
11,907.54	11,898.38	21,054.13	12,709.56	36.05	127.37	113.736	-367.80	-307.03	899.07	790.82	108.25	8.306	
12,000.00	11,990.80	21,062.46	12,710.08	36.33	127.48	109.231	-376.11	-307.25	816.99	706.08	110.91	7.366	
12,028.24	12,019.04	21,064.39	12,710.20	36.36	127.51	-82.037	-378.04	-307.30	792.26	680.45	111.81	7.086	
12,100.00	12,090.80	21,068.94	12,710.49	36.36	127.57	-82.705	-382.58	-307.42	730.49	616.11	114.37	6.387	
12,200.00	12,190.80	21,075.21	12,710.88	36.36	127.65	-83.629	-388.83	-307.59	647.79	529.10	118.69	5.458	
12,300.00	12,290.80	21,081.41	12,711.27	36.36	127.74	-84.545	-395.02	-307.76	570.59	446.58	124.02	4.601	
12,400.00	12,390.80	21,087.54	12,711.64	36.37	127.82	-85.453	-401.14	-307.93	501.45	371.12	130.33	3.848	
12,500.00	12,490.80	21,093.60	12,712.02	36.37	127.90	-86.352	-407.18	-308.10	444.12	307.03	137.09	3.240	
12,528.24	12,519.04	21,095.30	12,712.12	36.37	127.92	-86.604	-408.88	-308.15	430.74	291.85	138.90	3.101	
12,550.00	12,540.79	21,097.01	12,712.22	36.40	127.95	94.718	-410.59	-308.20	421.47	281.24	140.23	3.006	
12,600.00	12,590.61	21,104.47	12,712.67	36.63	128.05	95.487	-418.02	-308.41	403.99	261.02	142.96	2.826	
12,650.00	12,639.89	21,116.34	12,713.36	36.95	128.21	94.973	-429.87	-308.74	392.31	247.28	145.03	2.705	
12,700.00	12,688.24	21,132.31	12,714.24	37.29	128.42	93.287	-445.81	-309.16	386.68	240.39	146.29	2.643	
12,722.75	12,709.84	21,140.87	12,714.69	37.44	128.54	92.163	-454.36	-309.38	386.08	239.50	146.58	2.634 CC, ES, SF	
12,750.00	12,735.30	21,152.15	12,715.26	37.62	128.69	90.549	-465.62	-309.66	386.91	240.20	146.71	2.637	
12,800.00	12,780.72	21,175.61	12,716.35	37.96	129.00	86.916	-489.04	-310.21	392.41	246.01	146.40	2.680	
12,850.00	12,824.15	21,202.27	12,717.48	38.29	129.36	82.616	-515.68	-310.80	402.29	256.75	145.54	2.764	
12,900.00	12,865.26	21,232.41	12,718.76	38.60	129.76	77.852	-545.78	-311.46	415.50	271.17	144.33	2.879	
12,950.00	12,903.73	21,235.00	12,718.87	38.90	129.80	75.871	-548.37	-311.52	432.01	288.87	143.14	3.018	
13,000.00	12,939.27	21,235.00	12,718.87	39.18	129.80	73.701	-548.37	-311.52	452.50	310.98	141.53	3.197	
13,050.00	12,971.62	21,235.00	12,718.87	39.43	129.80	71.115	-548.37	-311.52	476.33	336.73	139.61	3.412	
13,100.00	13,000.52	21,235.00	12,718.87	39.65	129.80	68.181	-548.37	-311.52	502.85	365.35	137.50	3.657	
13,150.00	13,025.76	21,235.00	12,718.87	39.85	129.80	64.976	-548.37	-311.52	531.48	396.16	135.32	3.928	
13,200.00	13,047.14	21,235.00	12,718.87	40.02	129.80	61.590	-548.37	-311.52	561.69	428.56	133.13	4.219	
13,250.00	13,064.50	21,235.00	12,718.87	40.15	129.80	58.113	-548.37	-311.52	593.03	462.04	130.98	4.528	
13,300.00	13,077.71	21,235.00	12,718.87	40.26	129.80	54.632	-548.37	-311.52	625.10	496.21	128.90	4.850	
13,350.00	13,086.67	21,235.00	12,718.87	40.33	129.80	51.225	-548.37	-311.52	657.58	530.69	126.89	5.182	
13,400.00	13,091.30	21,235.00	12,718.87	40.38	129.80	47.952	-548.37	-311.52	690.18	565.21	124.97	5.523	
13,428.24	13,092.00	21,235.00	12,718.87	40.39	129.80	46.182	-548.37	-311.52	708.55	584.65	123.90	5.719	
13,500.00	13,092.00	21,235.00	12,718.87	40.40	129.80	46.182	-548.37	-311.52	757.11	635.86	121.24	6.244	
13,600.00	13,092.00	21,235.00	12,718.87	40.43	129.80	46.182	-548.37	-311.52	830.40	712.71	117.69	7.056	
13,700.00	13,092.00	21,235.00	12,718.87	40.46	129.80	46.182	-548.37	-311.52	908.80	794.35	114.46	7.940	
13,800.00	13,092.00	21,235.00	12,718.87	40.50	129.80	46.182	-548.37	-311.52	991.10	879.51	111.59	8.881	

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





## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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		Highside		Offset Wellbore Centre		Distance		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	
13,900.00	13,092.00	21,235.00	12,718.87	40.53	129.80	46.182	-548.37	-311.52	1,076.40	967.30	109.09	9.867	
14,000.00	13,092.00	21,235.00	12,718.87	40.58	129.80	46.182	-548.37	-311.52	1,164.04	1,057.11	106.93	10.886	
14,100.00	13,092.00	21,235.00	12,718.87	40.63	129.80	46.182	-548.37	-311.52	1,253.53	1,148.47	105.06	11.931	
14,200.00	13,092.00	21,235.00	12,718.87	40.69	129.80	46.182	-548.37	-311.52	1,344.51	1,241.06	103.45	12.997	
14,300.00	13,092.00	21,235.00	12,718.87	40.76	129.80	46.182	-548.37	-311.52	1,436.68	1,334.63	102.05	14.078	
14,400.00	13,092.00	21,235.00	12,718.87	40.85	129.80	46.182	-548.37	-311.52	1,529.84	1,429.00	100.84	15.172	
14,500.00	13,092.00	21,235.00	12,718.87	40.95	129.80	46.182	-548.37	-311.52	1,623.81	1,524.03	99.78	16.274	
14,600.00	13,092.00	21,235.00	12,718.87	41.10	129.80	46.182	-548.37	-311.52	1,718.46	1,619.61	98.85	17.384	
14,700.00	13,092.00	21,235.00	12,718.87	41.29	129.80	46.182	-548.37	-311.52	1,813.69	1,715.65	98.04	18.499	
14,800.00	13,092.00	21,235.00	12,718.87	41.57	129.80	46.182	-548.37	-311.52	1,909.40	1,812.07	97.33	19.618	
14,900.00	13,092.00	21,235.00	12,718.87	41.99	129.80	46.182	-548.37	-311.52	2,005.54	1,908.84	96.70	20.740	
15,000.00	13,092.00	21,235.00	12,718.87	42.60	129.80	46.182	-548.37	-311.52	2,102.03	2,005.89	96.14	21.864	
15,100.00	13,092.00	21,235.00	12,718.87	43.42	129.80	46.182	-548.37	-311.52	2,198.84	2,103.19	95.65	22.989	
15,200.00	13,092.00	21,235.00	12,718.87	44.43	129.80	46.182	-548.37	-311.52	2,295.92	2,200.71	95.20	24.116	
15,300.00	13,092.00	21,235.00	12,718.87	45.56	129.80	46.182	-548.37	-311.52	2,393.24	2,298.43	94.81	25.243	
15,400.00	13,092.00	21,235.00	12,718.87	46.76	129.80	46.182	-548.37	-311.52	2,490.77	2,396.32	94.46	26.369	
15,500.00	13,092.00	21,235.00	12,718.87	48.01	129.80	46.182	-548.37	-311.52	2,588.50	2,494.35	94.14	27.496	
15,600.00	13,092.00	21,235.00	12,718.87	49.30	129.80	46.182	-548.37	-311.52	2,686.38	2,592.53	93.86	28.622	
15,700.00	13,092.00	21,235.00	12,718.87	50.61	129.80	46.182	-548.37	-311.52	2,784.42	2,690.82	93.60	29.747	
15,800.00	13,092.00	21,235.00	12,718.87	51.93	129.80	46.182	-548.37	-311.52	2,882.60	2,789.22	93.38	30.871	
15,900.00	13,092.00	21,235.00	12,718.87	53.27	129.80	46.182	-548.37	-311.52	2,980.89	2,887.72	93.17	31.994	
16,000.00	13,092.00	21,235.00	12,718.87	54.61	129.80	46.182	-548.37	-311.52	3,079.30	2,986.31	92.99	33.116	
16,100.00	13,092.00	21,235.00	12,718.87	55.97	129.80	46.182	-548.37	-311.52	3,177.80	3,084.98	92.82	34.236	
16,200.00	13,092.00	21,235.00	12,718.87	57.33	129.80	46.182	-548.37	-311.52	3,276.40	3,183.73	92.67	35.355	
16,300.00	13,092.00	21,235.00	12,718.87	58.69	129.80	46.182	-548.37	-311.52	3,375.08	3,282.54	92.54	36.472	
16,400.00	13,092.00	21,235.00	12,718.87	60.06	129.80	46.182	-548.37	-311.52	3,473.83	3,381.41	92.42	37.588	
16,500.00	13,092.00	21,235.00	12,718.87	61.44	129.80	46.182	-548.37	-311.52	3,572.65	3,480.34	92.31	38.702	
16,600.00	13,092.00	21,235.00	12,718.87	62.81	129.80	46.182	-548.37	-311.52	3,671.54	3,579.32	92.22	39.814	
16,700.00	13,092.00	21,235.00	12,718.87	64.20	129.80	46.182	-548.37	-311.52	3,770.49	3,678.35	92.13	40.924	
16,800.00	13,092.00	21,235.00	12,718.87	65.58	129.80	46.182	-548.37	-311.52	3,869.49	3,777.42	92.06	42.032	
16,900.00	13,092.00	21,235.00	12,718.87	66.97	129.80	46.182	-548.37	-311.52	3,968.54	3,876.54	92.00	43.138	
17,000.00	13,092.00	21,235.00	12,718.87	68.36	129.80	46.182	-548.37	-311.52	4,067.63	3,975.69	91.94	44.242	
17,100.00	13,092.00	21,235.00	12,718.87	69.75	129.80	46.182	-548.37	-311.52	4,166.77	4,074.88	91.89	45.343	
17,200.00	13,092.00	21,235.00	12,718.87	71.14	129.80	46.182	-548.37	-311.52	4,265.95	4,174.10	91.85	46.443	
17,300.00	13,092.00	21,235.00	12,718.87	72.54	129.80	46.182	-548.37	-311.52	4,365.17	4,273.35	91.82	47.540	
17,400.00	13,092.00	21,235.00	12,718.87	73.94	129.80	46.182	-548.37	-311.52	4,464.42	4,372.63	91.79	48.635	
17,500.00	13,092.00	21,235.00	12,718.87	75.34	129.80	46.182	-548.37	-311.52	4,563.70	4,471.93	91.77	49.728	
17,600.00	13,092.00	21,235.00	12,718.87	76.74	129.80	46.182	-548.37	-311.52	4,663.02	4,571.26	91.76	50.818	
17,700.00	13,092.00	21,235.00	12,718.87	78.14	129.80	46.182	-548.37	-311.52	4,762.36	4,670.61	91.75	51.906	
17,800.00	13,092.00	21,235.00	12,718.87	79.55	129.80	46.182	-548.37	-311.52	4,861.73	4,769.99	91.74	52.992	
17,900.00	13,092.00	21,235.00	12,718.87	80.95	129.80	46.182	-548.37	-311.52	4,961.13	4,869.39	91.75	54.075	
18,000.00	13,092.00	21,235.00	12,718.87	82.36	129.80	46.182	-548.37	-311.52	5,060.55	4,968.80	91.75	55.155	
18,100.00	13,092.00	21,235.00	12,718.87	83.76	129.80	46.182	-548.37	-311.52	5,159.99	5,068.23	91.76	56.233	
18,200.00	13,092.00	21,235.00	12,718.87	85.17	129.80	46.182	-548.37	-311.52	5,259.46	5,167.68	91.77	57.309	
18,300.00	13,092.00	21,235.00	12,718.87	86.58	129.80	46.182	-548.37	-311.52	5,358.94	5,267.15	91.79	58.382	
18,400.00	13,092.00	21,235.00	12,718.87	87.99	129.80	46.182	-548.37	-311.52	5,458.44	5,366.63	91.81	59.452	
18,500.00	13,092.00	21,235.00	12,718.87	89.40	129.80	46.182	-548.37	-311.52	5,557.96	5,466.12	91.84	60.519	
18,600.00	13,092.00	21,235.00	12,718.87	90.81	129.80	46.182	-548.37	-311.52	5,657.50	5,565.63	91.87	61.584	
18,700.00	13,092.00	21,235.00	12,718.87	92.23	129.80	46.182	-548.37	-311.52	5,757.05	5,665.16	91.90	62.646	
18,800.00	13,092.00	21,235.00	12,718.87	93.64	129.80	46.182	-548.37	-311.52	5,856.62	5,764.69	91.93	63.706	
18,900.00	13,092.00	21,235.00	12,718.87	95.06	129.80	46.182	-548.37	-311.52	5,956.20	5,864.23	91.97	64.762	
19,000.00	13,092.00	21,235.00	12,718.87	96.47	129.80	46.182	-548.37	-311.52	6,055.80	5,963.79	92.01	65.816	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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		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	
19,100.00	13,092.00	21,235.00	12,718.87	97.89	129.80	46.182	-548.37	-311.52	6,155.41	6,063.36	92.05	66.867		
19,200.00	13,092.00	21,235.00	12,718.87	99.30	129.80	46.182	-548.37	-311.52	6,255.03	6,162.93	92.10	67.915		
19,300.00	13,092.00	21,235.00	12,718.87	100.72	129.80	46.182	-548.37	-311.52	6,354.67	6,262.52	92.15	68.960		
19,400.00	13,092.00	21,235.00	12,718.87	102.14	129.80	46.182	-548.37	-311.52	6,454.31	6,362.11	92.20	70.003		
19,500.00	13,092.00	21,235.00	12,718.87	103.55	129.80	46.182	-548.37	-311.52	6,553.97	6,461.71	92.25	71.042		
19,600.00	13,092.00	21,235.00	12,718.87	104.97	129.80	46.182	-548.37	-311.52	6,653.63	6,561.32	92.31	72.079		
19,700.00	13,092.00	21,235.00	12,718.87	106.39	129.80	46.182	-548.37	-311.52	6,753.31	6,660.94	92.37	73.112		
19,800.00	13,092.00	21,235.00	12,718.87	107.81	129.80	46.182	-548.37	-311.52	6,853.00	6,760.57	92.43	74.143		
19,900.00	13,092.00	21,235.00	12,718.87	109.23	129.80	46.182	-548.37	-311.52	6,952.69	6,860.20	92.49	75.170		
20,000.00	13,092.00	21,235.00	12,718.87	110.65	129.80	46.182	-548.37	-311.52	7,052.39	6,959.84	92.56	76.195		
20,100.00	13,092.00	21,235.00	12,718.87	112.07	129.80	46.182	-548.37	-311.52	7,152.11	7,059.48	92.62	77.216		
20,200.00	13,092.00	21,235.00	12,718.87	113.49	129.80	46.182	-548.37	-311.52	7,251.83	7,159.13	92.69	78.235		
20,300.00	13,092.00	21,235.00	12,718.87	114.91	129.80	46.182	-548.37	-311.52	7,351.55	7,258.79	92.76	79.250		
20,400.00	13,092.00	21,235.00	12,718.87	116.34	129.80	46.182	-548.37	-311.52	7,451.29	7,358.45	92.84	80.262		
20,500.00	13,092.00	21,235.00	12,718.87	117.76	129.80	46.182	-548.37	-311.52	7,551.03	7,458.12	92.91	81.271		
20,600.00	13,092.00	21,235.00	12,718.87	119.18	129.80	46.182	-548.37	-311.52	7,650.78	7,557.79	92.99	82.277		
20,700.00	13,092.00	21,235.00	12,718.87	120.60	129.80	46.182	-548.37	-311.52	7,750.53	7,657.47	93.07	83.280		
20,800.00	13,092.00	21,235.00	12,718.87	122.03	129.80	46.182	-548.37	-311.52	7,850.29	7,757.15	93.15	84.280		
20,900.00	13,092.00	21,235.00	12,718.87	123.45	129.80	46.182	-548.37	-311.52	7,950.06	7,856.83	93.23	85.276		
21,000.00	13,092.00	21,235.00	12,718.87	124.87	129.80	46.182	-548.37	-311.52	8,049.83	7,956.52	93.31	86.270		
21,100.00	13,092.00	21,235.00	12,718.87	126.30	129.80	46.182	-548.37	-311.52	8,149.61	8,056.22	93.39	87.260		
21,200.00	13,092.00	21,235.00	12,718.87	127.72	129.80	46.182	-548.37	-311.52	8,249.40	8,155.91	93.48	88.247		
21,300.00	13,092.00	21,235.00	12,718.87	129.15	129.80	46.182	-548.37	-311.52	8,349.18	8,255.62	93.57	89.230		
21,400.00	13,092.00	21,235.00	12,718.87	130.57	129.80	46.182	-548.37	-311.52	8,448.98	8,355.32	93.66	90.211		
21,500.00	13,092.00	21,235.00	12,718.87	132.00	129.80	46.182	-548.37	-311.52	8,548.78	8,455.03	93.75	91.188		
21,600.00	13,092.00	21,235.00	12,718.87	133.42	129.80	46.182	-548.37	-311.52	8,648.58	8,554.74	93.84	92.162		
21,700.00	13,092.00	21,235.00	12,718.87	134.85	129.80	46.182	-548.37	-311.52	8,748.39	8,654.45	93.93	93.133		
21,800.00	13,092.00	21,235.00	12,718.87	136.27	129.80	46.182	-548.37	-311.52	8,848.20	8,754.17	94.03	94.100		
21,900.00	13,092.00	21,235.00	12,718.87	137.70	129.80	46.182	-548.37	-311.52	8,948.02	8,853.89	94.13	95.064		
22,000.00	13,092.00	21,235.00	12,718.87	139.12	129.80	46.182	-548.37	-311.52	9,047.84	8,953.61	94.22	96.025		
22,100.00	13,092.00	21,235.00	12,718.87	140.55	129.80	46.182	-548.37	-311.52	9,147.66	9,053.34	94.32	96.983		
22,200.00	13,092.00	21,235.00	12,718.87	141.98	129.80	46.182	-548.37	-311.52	9,247.49	9,153.07	94.42	97.937		
22,300.00	13,092.00	21,235.00	12,718.87	143.40	129.80	46.182	-548.37	-311.52	9,347.32	9,252.80	94.52	98.888		
22,400.00	13,092.00	21,235.00	12,718.87	144.83	129.80	46.182	-548.37	-311.52	9,447.16	9,352.53	94.63	99.836		
22,500.00	13,092.00	21,235.00	12,718.87	146.26	129.80	46.182	-548.37	-311.52	9,547.00	9,452.26	94.73	100.780		
22,600.00	13,092.00	21,235.00	12,718.87	147.69	129.80	46.182	-548.37	-311.52	9,646.84	9,552.00	94.84	101.721		
22,700.00	13,092.00	21,235.00	12,718.87	149.11	129.80	46.182	-548.37	-311.52	9,746.68	9,651.74	94.94	102.658		
22,728.24	13,092.00	21,235.00	12,718.87	149.52	129.80	46.182	-548.37	-311.52	9,774.88	9,679.91	94.97	102.923		

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





## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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				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	
0.00	0.00	64.18	9.18	1.00	1.00	-10.008	7,889.88	-1,392.27	8,011.78					
100.00	100.00	249.35	194.35	1.08	1.18	-10.015	7,888.67	-1,393.09	8,011.29	8,009.03	2.26	3,540.773		
200.00	200.00	382.03	327.01	1.60	1.48	-10.018	7,886.74	-1,393.15	8,009.85	8,006.77	3.08	2,598.337		
300.00	300.00	500.20	445.16	2.01	1.82	-10.021	7,884.69	-1,393.24	8,008.15	8,004.32	3.83	2,092.202		
400.00	400.00	586.85	531.79	2.35	2.09	-10.023	7,883.18	-1,393.31	8,006.45	8,002.01	4.44	1,804.524		
500.00	500.00	683.90	628.84	2.65	2.40	-10.025	7,881.61	-1,393.33	8,004.85	7,999.80	5.05	1,585.390		
600.00	600.00	816.14	761.06	2.93	2.84	-10.028	7,879.19	-1,393.24	8,003.04	7,997.28	5.76	1,389.620		
700.00	700.00	914.94	859.83	3.18	3.17	-10.029	7,877.17	-1,393.02	8,000.99	7,994.65	6.34	1,261.257		
800.00	800.00	1,004.40	949.28	3.41	3.48	-10.028	7,875.49	-1,392.60	7,999.06	7,992.18	6.88	1,162.043		
900.00	900.00	1,099.48	1,044.34	3.64	3.81	-10.026	7,873.82	-1,392.07	7,997.23	7,989.80	7.43	1,076.041		
1,000.00	1,000.00	1,218.59	1,163.43	3.85	4.22	-10.026	7,871.65	-1,391.64	7,995.39	7,987.34	8.06	992.555		
1,100.00	1,100.00	1,271.00	1,215.83	4.05	4.40	-10.026	7,870.54	-1,391.43	7,993.43	7,984.99	8.44	947.133		
1,200.00	1,200.00	1,271.00	1,215.83	4.24	4.40	-10.026	7,870.54	-1,391.43	7,992.61	7,983.97	8.63	925.814		
1,288.47	1,288.47	1,343.65	1,288.46	4.41	4.65	-10.022	7,869.81	-1,390.83	7,991.77	7,982.73	9.04	884.011		
1,300.00	1,300.00	1,346.95	1,291.76	4.43	4.66	-10.022	7,869.82	-1,390.79	7,991.77	7,982.70	9.07	880.845		
1,400.00	1,400.00	1,375.54	1,320.36	4.61	4.75	-10.019	7,870.05	-1,390.37	7,992.32	7,982.97	9.35	854.972		
1,500.00	1,500.00	1,456.00	1,400.76	4.78	5.02	-10.004	7,872.19	-1,388.70	7,994.35	7,984.56	9.79	816.425		
1,600.00	1,599.98	1,456.00	1,400.76	4.98	5.02	-179.991	7,872.19	-1,388.70	7,997.96	7,987.98	9.98	801.197		
1,620.70	1,620.67	1,456.00	1,400.76	4.99	5.02	-179.991	7,872.19	-1,388.70	7,999.30	7,989.31	10.00	800.326		
1,700.00	1,699.89	1,471.47	1,416.21	5.07	5.07	-179.987	7,872.81	-1,388.31	8,005.19	7,995.07	10.13	790.331		
1,800.00	1,799.81	1,556.71	1,501.36	5.23	5.35	-179.968	7,876.32	-1,386.24	8,013.03	8,002.47	10.56	758.686		
1,900.00	1,899.72	1,644.00	1,588.55	5.41	5.63	-179.949	7,880.05	-1,384.24	8,021.05	8,010.03	11.02	727.635		
2,000.00	1,999.63	1,758.77	1,703.19	5.60	6.02	-179.926	7,884.90	-1,381.84	8,029.06	8,017.47	11.60	692.351		
2,100.00	2,099.54	1,833.00	1,777.35	5.80	6.26	-179.913	7,887.88	-1,380.43	8,036.95	8,024.90	12.05	667.200		
2,200.00	2,199.45	1,907.55	1,851.82	6.02	6.51	-179.901	7,891.06	-1,379.23	8,045.15	8,032.64	12.51	643.131		
2,300.00	2,299.36	1,961.94	1,906.14	6.24	6.70	-179.893	7,893.72	-1,378.57	8,053.95	8,041.04	12.91	623.695		
2,400.00	2,399.27	2,021.00	1,965.11	6.47	6.90	-179.885	7,896.92	-1,378.05	8,063.32	8,049.98	13.34	604.378		
2,500.00	2,499.18	2,097.18	2,041.16	6.72	7.16	-179.875	7,901.35	-1,377.43	8,073.09	8,059.25	13.84	583.353		
2,600.00	2,599.10	2,180.57	2,124.39	6.96	7.44	-179.863	7,906.39	-1,376.54	8,083.06	8,068.70	14.37	562.569		
2,700.00	2,699.01	2,288.58	2,232.19	7.22	7.82	-179.845	7,913.07	-1,375.10	8,093.14	8,078.14	14.99	539.801		
2,800.00	2,798.92	2,410.11	2,353.48	7.48	8.24	-179.822	7,920.36	-1,373.13	8,102.97	8,087.30	15.67	517.015		
2,900.00	2,898.83	2,509.87	2,453.04	7.74	8.59	-179.802	7,926.25	-1,371.27	8,112.68	8,096.40	16.28	498.222		
3,000.00	2,998.74	2,609.76	2,552.74	8.01	8.94	-179.781	7,932.16	-1,369.24	8,122.37	8,105.47	16.90	480.630		
3,100.00	3,098.65	2,704.20	2,647.00	8.28	9.27	-179.762	7,937.76	-1,367.49	8,132.09	8,114.59	17.50	464.653		
3,200.00	3,198.56	2,817.49	2,760.08	8.56	9.67	-179.742	7,944.43	-1,365.76	8,141.85	8,123.67	18.18	447.954		
3,300.00	3,298.47	2,987.35	2,929.68	8.84	10.27	-179.714	7,953.39	-1,363.26	8,151.00	8,131.95	19.06	427.693		
3,400.00	3,398.39	3,058.27	3,000.50	9.13	10.52	-179.704	7,957.01	-1,362.40	8,159.99	8,140.40	19.59	416.585		
3,500.00	3,498.30	3,152.00	3,094.11	9.41	10.85	-179.693	7,961.89	-1,361.58	8,169.18	8,148.98	20.20	404.364		
3,600.00	3,598.21	3,292.55	3,234.48	9.70	11.35	-179.677	7,968.90	-1,360.40	8,178.19	8,157.20	20.99	389.619		
3,700.00	3,698.12	3,429.81	3,371.58	9.99	11.84	-179.657	7,975.05	-1,358.54	8,186.57	8,164.80	21.77	376.054		
3,800.00	3,798.03	3,530.00	3,471.65	10.29	12.19	-179.635	7,979.38	-1,356.15	8,194.63	8,172.22	22.42	365.547		
3,900.00	3,897.94	3,591.96	3,533.53	10.58	12.42	-179.623	7,982.17	-1,354.80	8,202.97	8,180.04	22.93	357.777		
4,000.00	3,997.85	3,643.16	3,584.66	10.88	12.60	-179.616	7,984.72	-1,354.30	8,211.91	8,188.51	23.40	350.940		
4,100.00	4,097.76	3,718.00	3,659.40	11.18	12.86	-179.614	7,988.81	-1,354.60	8,221.51	8,197.55	23.96	343.143		
4,200.00	4,197.68	3,767.10	3,708.41	11.48	13.04	-179.614	7,991.68	-1,355.09	8,231.48	8,207.06	24.43	337.003		
4,300.00	4,297.59	3,858.60	3,799.74	11.78	13.37	-179.611	7,997.16	-1,355.52	8,241.67	8,216.62	25.05	329.028		
4,400.00	4,397.50	3,956.53	3,897.49	12.08	13.72	-179.603	8,003.22	-1,355.36	8,251.94	8,226.24	25.70	321.121		
4,500.00	4,497.41	4,061.74	4,002.50	12.39	14.09	-179.593	8,009.70	-1,355.08	8,262.17	8,235.79	26.38	313.257		
4,600.00	4,597.32	4,204.13	4,144.64	12.69	14.60	-179.580	8,018.13	-1,354.57	8,272.17	8,244.97	27.19	304.211		
4,700.00	4,697.23	4,486.02	4,426.20	13.00	15.61	-179.549	8,031.40	-1,352.19	8,281.11	8,252.58	28.52	290.336		
4,800.00	4,797.14	4,650.38	4,590.44	13.31	16.20	-179.525	8,036.71	-1,349.49	8,288.25	8,258.83	29.42	281.723		
4,900.00	4,897.05	20,895.60	13,017.78	13.62	122.97	118.804	16.54	-1,360.86	8,239.50	8,161.33	78.18	105.397		

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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					Rule Assigned:				Offset Well Error:	1.00 usft		
Reference	Offset	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		
5,000.00	4,996.97	20,897.62	13,017.81	13.92	123.00	118.731	14.51	-1,360.93	8,141.25	8,062.84	78.41	103.829		
5,100.00	5,096.88	20,899.68	13,017.84	14.23	123.02	118.657	12.46	-1,360.99	8,043.04	7,964.40	78.65	102.265		
5,200.00	5,196.79	20,901.78	13,017.87	14.55	123.05	118.582	10.36	-1,361.06	7,944.88	7,865.99	78.89	100.705		
5,300.00	5,296.70	20,903.91	13,017.90	14.86	123.08	118.505	8.23	-1,361.12	7,846.76	7,767.62	79.14	99.149		
5,400.00	5,396.61	20,906.08	13,017.94	15.17	123.11	118.427	6.06	-1,361.19	7,748.69	7,669.29	79.39	97.597		
5,500.00	5,496.52	20,908.30	13,017.98	15.48	123.14	118.348	3.85	-1,361.26	7,650.66	7,571.01	79.65	96.049		
5,600.00	5,596.43	20,910.55	13,018.01	15.79	123.17	118.266	1.60	-1,361.32	7,552.69	7,472.77	79.92	94.506		
5,700.00	5,696.34	20,912.85	13,018.05	16.11	123.20	118.184	-0.70	-1,361.39	7,454.77	7,374.58	80.19	92.967		
5,800.00	5,796.26	20,915.19	13,018.10	16.42	123.23	118.099	-3.04	-1,361.46	7,356.90	7,276.43	80.46	91.433		
5,900.00	5,896.17	20,917.57	13,018.14	16.74	123.26	118.013	-5.42	-1,361.53	7,259.08	7,178.34	80.74	89.904		
6,000.00	5,996.08	20,920.01	13,018.19	17.05	123.29	117.925	-7.85	-1,361.60	7,161.33	7,080.30	81.03	88.379		
6,100.00	6,095.99	20,922.49	13,018.24	17.37	123.32	117.836	-10.33	-1,361.67	7,063.64	6,982.31	81.32	86.860		
6,200.00	6,195.90	20,925.02	13,018.29	17.68	123.36	117.744	-12.86	-1,361.74	6,966.01	6,884.39	81.62	85.346		
6,300.00	6,295.81	20,927.60	13,018.34	18.00	123.39	117.651	-15.44	-1,361.81	6,868.44	6,786.52	81.93	83.837		
6,400.00	6,395.72	20,956.00	13,019.04	18.32	123.77	116.617	-43.83	-1,362.52	6,771.06	6,688.61	82.45	82.122		
6,500.00	6,495.63	20,956.00	13,019.04	18.63	123.77	116.617	-43.83	-1,362.52	6,673.62	6,590.87	82.75	80.649		
6,600.00	6,595.55	20,956.00	13,019.04	18.95	123.77	116.617	-43.83	-1,362.52	6,576.25	6,493.19	83.05	79.182		
6,700.00	6,695.46	20,956.00	13,019.04	19.27	123.77	116.617	-43.83	-1,362.52	6,478.96	6,395.59	83.36	77.721		
6,800.00	6,795.37	20,956.00	13,019.04	19.59	123.77	116.617	-43.83	-1,362.52	6,381.75	6,298.07	83.68	76.265		
6,900.00	6,895.28	20,956.00	13,019.04	19.91	123.77	116.617	-43.83	-1,362.52	6,284.63	6,200.63	84.00	74.814		
7,000.00	6,995.19	20,956.00	13,019.04	20.23	123.77	116.617	-43.83	-1,362.52	6,187.61	6,103.27	84.33	73.370		
7,100.00	7,095.10	20,956.00	13,019.04	20.54	123.77	116.617	-43.83	-1,362.52	6,090.67	6,006.00	84.67	71.931		
7,200.00	7,195.01	20,956.00	13,019.04	20.86	123.77	116.617	-43.83	-1,362.52	5,993.85	5,908.82	85.02	70.498		
7,300.00	7,294.92	20,956.00	13,019.04	21.18	123.77	116.617	-43.83	-1,362.52	5,897.12	5,811.74	85.38	69.071		
7,400.00	7,394.84	20,956.00	13,019.04	21.50	123.77	116.617	-43.83	-1,362.52	5,800.51	5,714.77	85.74	67.651		
7,500.00	7,494.75	20,956.00	13,019.04	21.82	123.77	116.617	-43.83	-1,362.52	5,704.01	5,617.90	86.12	66.237		
7,600.00	7,594.66	20,956.00	13,019.04	22.14	123.77	116.617	-43.83	-1,362.52	5,607.64	5,521.14	86.50	64.830		
7,700.00	7,694.57	20,975.24	13,019.60	22.46	124.02	115.912	-63.05	-1,362.95	5,511.35	5,424.29	87.06	63.308		
7,800.00	7,794.48	20,980.01	13,019.75	22.78	124.09	115.737	-67.82	-1,363.06	5,415.21	5,327.71	87.50	61.887		
7,900.00	7,894.39	20,984.85	13,019.90	23.10	124.15	115.558	-72.66	-1,363.16	5,319.21	5,231.25	87.96	60.475		
8,000.00	7,994.30	20,989.76	13,020.05	23.42	124.22	115.377	-77.57	-1,363.27	5,223.35	5,134.92	88.43	59.070		
8,100.00	8,094.21	20,994.74	13,020.21	23.75	124.28	115.193	-82.54	-1,363.38	5,127.64	5,038.74	88.91	57.674		
8,200.00	8,194.13	20,999.79	13,020.37	24.07	124.35	115.006	-87.58	-1,363.49	5,032.10	4,942.69	89.40	56.286		
8,300.00	8,294.04	21,004.91	13,020.54	24.39	124.42	114.816	-92.70	-1,363.60	4,936.72	4,846.81	89.91	54.906		
8,400.00	8,393.95	21,010.11	13,020.71	24.71	124.49	114.624	-97.89	-1,363.71	4,841.52	4,751.08	90.44	53.535		
8,500.00	8,493.86	21,015.37	13,020.89	25.03	124.56	114.428	-103.16	-1,363.82	4,746.51	4,655.53	90.98	52.173		
8,600.00	8,593.77	21,020.72	13,021.08	25.35	124.63	114.228	-108.50	-1,363.93	4,651.70	4,560.17	91.53	50.820		
8,700.00	8,693.68	21,026.15	13,021.27	25.67	124.70	114.026	-113.92	-1,364.04	4,557.10	4,465.00	92.11	49.476		
8,800.00	8,793.59	21,031.65	13,021.46	26.00	124.78	113.820	-119.42	-1,364.16	4,462.73	4,370.03	92.70	48.142		
8,900.00	8,893.50	21,037.24	13,021.66	26.32	124.85	113.611	-125.00	-1,364.27	4,368.60	4,275.29	93.31	46.817		
9,000.00	8,993.42	21,051.00	13,022.18	26.64	125.03	113.095	-138.75	-1,364.55	4,274.74	4,180.72	94.02	45.467		
9,100.00	9,093.33	21,051.00	13,022.18	26.96	125.03	113.095	-138.75	-1,364.55	4,181.13	4,086.51	94.62	44.188		
9,200.00	9,193.24	21,149.20	13,024.54	27.29	126.34	109.354	-236.89	-1,366.84	4,087.74	3,991.60	96.14	42.519		
9,300.00	9,293.15	21,156.55	13,024.61	27.61	126.44	109.070	-244.24	-1,367.04	3,994.59	3,897.72	96.86	41.240		
9,400.00	9,393.06	21,163.73	13,024.69	27.93	126.53	108.793	-251.42	-1,367.23	3,901.76	3,804.16	97.61	39.974		
9,500.00	9,492.97	21,121.60	13,023.91	28.25	125.97	110.414	-209.31	-1,366.19	3,809.29	3,711.36	97.93	38.898		
9,600.00	9,592.88	21,177.59	13,024.81	28.58	126.72	108.256	-265.27	-1,367.60	3,717.21	3,618.03	99.18	37.478		
9,700.00	9,692.79	21,184.28	13,024.87	28.90	126.81	107.997	-271.96	-1,367.79	3,625.54	3,525.52	100.02	36.250		
9,800.00	9,792.71	21,190.82	13,024.92	29.22	126.89	107.743	-278.50	-1,367.97	3,534.30	3,433.42	100.88	35.034		
9,900.00	9,892.62	21,197.21	13,024.96	29.55	126.98	107.495	-284.88	-1,368.14	3,443.55	3,341.76	101.78	33.833		
10,000.00	9,992.53	21,203.46	13,025.01	29.87	127.06	107.252	-291.13	-1,368.32	3,353.31	3,250.59	102.72	32.645		
10,100.00	10,092.44	21,209.57	13,025.04	30.19	127.14	107.014	-297.24	-1,368.49	3,263.63	3,159.93	103.70	31.472		

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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	
10,200.00	10,192.35	21,215.55	13,025.08	30.52	127.22	106.781	-303.22	-1,368.65	3,174.55	3,069.84	104.72	30.315		
10,300.00	10,292.26	21,221.40	13,025.11	30.84	127.30	106.553	-309.07	-1,368.82	3,086.14	2,980.36	105.79	29.173		
10,400.00	10,392.17	21,227.13	13,025.13	31.16	127.38	106.329	-314.79	-1,368.98	2,998.45	2,891.55	106.91	28.048		
10,500.00	10,492.08	21,232.74	13,025.16	31.49	127.45	106.111	-320.40	-1,369.14	2,911.55	2,803.47	108.08	26.940		
10,600.00	10,592.00	21,238.23	13,025.18	31.81	127.52	105.896	-325.89	-1,369.29	2,825.50	2,716.19	109.30	25.850		
10,700.00	10,691.91	21,244.54	13,025.19	32.13	127.61	105.649	-332.20	-1,369.47	2,740.38	2,629.79	110.60	24.778		
10,800.00	10,791.82	21,250.78	13,025.21	32.46	127.69	105.405	-338.43	-1,369.65	2,656.30	2,544.34	111.96	23.726		
10,900.00	10,891.73	21,256.79	13,025.22	32.78	127.77	105.170	-344.44	-1,369.82	2,573.34	2,459.96	113.38	22.696		
11,000.00	10,991.64	21,262.58	13,025.22	33.11	127.85	104.944	-350.22	-1,369.98	2,491.63	2,376.75	114.88	21.690		
11,100.00	11,091.55	21,268.16	13,025.22	33.43	127.92	104.725	-355.81	-1,370.14	2,411.28	2,294.84	116.44	20.708		
11,200.00	11,191.46	21,273.55	13,025.21	33.75	127.99	104.514	-361.19	-1,370.30	2,332.45	2,214.37	118.08	19.753		
11,300.00	11,291.37	21,278.76	13,025.21	34.08	128.06	104.310	-366.40	-1,370.44	2,255.28	2,135.49	119.79	18.827		
11,400.00	11,391.29	21,283.79	13,025.19	34.40	128.13	104.112	-371.43	-1,370.59	2,179.96	2,058.39	121.58	17.930		
11,500.00	11,491.20	21,288.65	13,025.18	34.73	128.20	103.922	-376.29	-1,370.72	2,106.69	1,983.25	123.44	17.067		
11,600.00	11,591.11	21,293.35	13,025.16	35.05	128.26	103.737	-380.99	-1,370.86	2,035.69	1,910.32	125.37	16.238		
11,700.00	11,691.02	21,297.91	13,025.14	35.38	128.32	103.558	-385.54	-1,370.99	1,967.20	1,839.84	127.35	15.447		
11,800.00	11,790.93	21,302.32	13,025.12	35.70	128.38	103.385	-389.95	-1,371.11	1,901.49	1,772.10	129.39	14.696		
11,900.00	11,890.84	21,306.59	13,025.10	36.03	128.43	103.217	-394.22	-1,371.23	1,838.87	1,707.40	131.47	13.987		
11,907.54	11,898.38	21,306.91	13,025.10	36.05	128.44	103.205	-394.54	-1,371.24	1,834.28	1,702.66	131.62	13.936		
12,000.00	11,990.80	21,309.04	13,025.09	36.33	128.47	101.789	-396.67	-1,371.30	1,779.39	1,645.87	133.52	13.327		
12,028.24	12,019.04	21,309.00	13,025.09	36.36	128.47	-88.613	-396.63	-1,371.30	1,763.15	1,629.07	134.08	13.150		
12,100.00	12,090.80	21,308.52	13,025.09	36.36	128.46	-88.593	-396.15	-1,371.29	1,723.21	1,587.75	135.46	12.721		
12,200.00	12,190.80	21,307.86	13,025.09	36.36	128.45	-88.567	-395.49	-1,371.27	1,671.11	1,533.76	137.34	12.167		
12,300.00	12,290.80	21,307.22	13,025.10	36.36	128.44	-88.542	-394.85	-1,371.25	1,623.49	1,484.35	139.15	11.668		
12,400.00	12,390.80	21,306.60	13,025.10	36.37	128.43	-88.517	-394.23	-1,371.23	1,580.78	1,439.96	140.82	11.226		
12,500.00	12,490.80	21,305.99	13,025.10	36.37	128.43	-88.493	-393.62	-1,371.22	1,543.38	1,401.05	142.32	10.844		
12,528.24	12,519.04	21,305.83	13,025.11	36.37	128.42	-88.487	-393.46	-1,371.21	1,533.83	1,391.12	142.71	10.748		
12,550.00	12,540.79	21,306.14	13,025.10	36.40	128.43	92.794	-393.77	-1,371.22	1,526.80	1,383.80	143.00	10.677		
12,600.00	12,590.61	21,310.18	13,025.08	36.63	128.48	94.196	-397.81	-1,371.33	1,511.88	1,368.17	143.71	10.520		
12,650.00	12,639.89	21,318.73	13,025.02	36.95	128.60	95.219	-406.36	-1,371.58	1,498.76	1,354.31	144.45	10.376		
12,700.00	12,688.24	21,331.64	13,024.92	37.29	128.77	95.876	-419.26	-1,371.94	1,487.51	1,342.32	145.19	10.245		
12,750.00	12,735.30	21,349.75	13,024.78	37.62	129.01	96.153	-437.36	-1,372.44	1,478.16	1,332.20	145.96	10.127		
12,800.00	12,780.72	21,372.70	13,024.66	37.96	129.32	96.089	-460.31	-1,373.03	1,470.65	1,323.91	146.74	10.022		
12,850.00	12,824.15	21,400.36	13,024.62	38.29	129.68	95.726	-487.96	-1,373.67	1,464.87	1,317.34	147.53	9.929		
12,900.00	12,865.26	21,431.11	13,024.69	38.60	130.09	95.155	-518.70	-1,374.30	1,460.67	1,312.33	148.33	9.847		
12,950.00	12,903.73	21,463.13	13,024.80	38.90	130.52	94.464	-550.71	-1,374.93	1,457.92	1,308.78	149.14	9.776		
13,000.00	12,939.27	21,477.00	13,024.85	39.18	130.71	94.199	-564.58	-1,375.21	1,456.60	1,306.79	149.81	9.723		
13,009.11	12,945.41	21,477.00	13,024.85	39.22	130.71	94.203	-564.58	-1,375.21	1,456.56	1,306.66	149.91	9.716 CC, ES		
13,050.00	12,971.62	21,477.00	13,024.85	39.43	130.71	94.135	-564.58	-1,375.21	1,457.24	1,306.91	150.33	9.693		
13,100.00	13,000.52	21,477.00	13,024.85	39.65	130.71	93.868	-564.58	-1,375.21	1,459.92	1,309.10	150.81	9.680 SF		
13,150.00	13,025.76	21,477.00	13,024.85	39.85	130.71	93.400	-564.58	-1,375.21	1,464.58	1,313.35	151.23	9.684		
13,200.00	13,047.14	21,477.00	13,024.85	40.02	130.71	92.734	-564.58	-1,375.21	1,471.19	1,319.61	151.58	9.706		
13,250.00	13,064.50	21,477.00	13,024.85	40.15	130.71	91.875	-564.58	-1,375.21	1,479.66	1,327.81	151.85	9.744		
13,300.00	13,077.71	21,477.00	13,024.85	40.26	130.71	90.829	-564.58	-1,375.21	1,489.91	1,337.87	152.03	9.800		
13,350.00	13,086.67	21,477.00	13,024.85	40.33	130.71	89.604	-564.58	-1,375.21	1,501.80	1,349.68	152.13	9.872		
13,400.00	13,091.30	21,477.00	13,024.85	40.38	130.71	88.210	-564.58	-1,375.21	1,515.23	1,363.10	152.13	9.960		
13,428.24	13,092.00	21,477.00	13,024.85	40.39	130.71	87.353	-564.58	-1,375.21	1,523.43	1,371.35	152.08	10.017		
13,500.00	13,092.00	21,477.00	13,024.85	40.40	130.71	87.353	-564.58	-1,375.21	1,546.34	1,394.49	151.85	10.183		
13,600.00	13,092.00	21,477.00	13,024.85	40.43	130.71	87.353	-564.58	-1,375.21	1,583.14	1,431.92	151.21	10.470		
13,700.00	13,092.00	21,477.00	13,024.85	40.46	130.71	87.353	-564.58	-1,375.21	1,625.26	1,475.00	150.26	10.816		
13,800.00	13,092.00	21,477.00	13,024.85	40.50	130.71	87.353	-564.58	-1,375.21	1,672.32	1,523.27	149.05	11.220		
13,900.00	13,092.00	21,477.00	13,024.85	40.53	130.71	87.353	-564.58	-1,375.21	1,723.89	1,576.27	147.63	11.677		

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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	13,092.00	21,477.00	13,024.85	40.58	130.71	87.353	-564.58	-1,375.21	1,779.60	1,633.55	146.05	12.185		
14,100.00	13,092.00	21,477.00	13,024.85	40.63	130.71	87.353	-564.58	-1,375.21	1,839.06	1,694.70	144.36	12.740		
14,200.00	13,092.00	21,477.00	13,024.85	40.69	130.71	87.353	-564.58	-1,375.21	1,901.92	1,759.32	142.60	13.337		
14,300.00	13,092.00	21,477.00	13,024.85	40.76	130.71	87.353	-564.58	-1,375.21	1,967.85	1,827.04	140.81	13.975		
14,400.00	13,092.00	21,477.00	13,024.85	40.85	130.71	87.353	-564.58	-1,375.21	2,036.57	1,897.55	139.01	14.650		
14,500.00	13,092.00	21,477.00	13,024.85	40.95	130.71	87.353	-564.58	-1,375.21	2,107.79	1,970.55	137.23	15.359		
14,600.00	13,092.00	21,477.00	13,024.85	41.10	130.71	87.353	-564.58	-1,375.21	2,181.27	2,045.78	135.49	16.099		
14,700.00	13,092.00	21,477.00	13,024.85	41.29	130.71	87.353	-564.58	-1,375.21	2,256.79	2,123.00	133.79	16.868		
14,800.00	13,092.00	21,477.00	13,024.85	41.57	130.71	87.353	-564.58	-1,375.21	2,334.15	2,202.00	132.15	17.663		
14,900.00	13,092.00	21,477.00	13,024.85	41.99	130.71	87.353	-564.58	-1,375.21	2,413.17	2,282.61	130.57	18.482		
15,000.00	13,092.00	21,477.00	13,024.85	42.60	130.71	87.353	-564.58	-1,375.21	2,493.71	2,364.65	129.05	19.323		
15,100.00	13,092.00	21,477.00	13,024.85	43.42	130.71	87.353	-564.58	-1,375.21	2,575.60	2,448.00	127.60	20.184		
15,200.00	13,092.00	21,477.00	13,024.85	44.43	130.71	87.353	-564.58	-1,375.21	2,658.74	2,532.51	126.23	21.063		
15,300.00	13,092.00	21,477.00	13,024.85	45.56	130.71	87.353	-564.58	-1,375.21	2,743.00	2,618.09	124.91	21.959		
15,400.00	13,092.00	21,477.00	13,024.85	46.76	130.71	87.353	-564.58	-1,375.21	2,828.29	2,704.62	123.67	22.870		
15,500.00	13,092.00	21,477.00	13,024.85	48.01	130.71	87.353	-564.58	-1,375.21	2,914.51	2,792.02	122.49	23.794		
15,600.00	13,092.00	21,477.00	13,024.85	49.30	130.71	87.353	-564.58	-1,375.21	3,001.59	2,880.22	121.37	24.730		
15,700.00	13,092.00	21,477.00	13,024.85	50.61	130.71	87.353	-564.58	-1,375.21	3,089.45	2,969.13	120.32	25.678		
15,800.00	13,092.00	21,477.00	13,024.85	51.93	130.71	87.353	-564.58	-1,375.21	3,178.03	3,058.71	119.32	26.635		
15,900.00	13,092.00	21,477.00	13,024.85	53.27	130.71	87.353	-564.58	-1,375.21	3,267.26	3,148.89	118.37	27.602		
16,000.00	13,092.00	21,477.00	13,024.85	54.61	130.71	87.353	-564.58	-1,375.21	3,357.11	3,239.63	117.48	28.576		
16,100.00	13,092.00	21,477.00	13,024.85	55.97	130.71	87.353	-564.58	-1,375.21	3,447.51	3,330.88	116.64	29.558		
16,200.00	13,092.00	21,477.00	13,024.85	57.33	130.71	87.353	-564.58	-1,375.21	3,538.43	3,422.59	115.84	30.546		
16,300.00	13,092.00	21,477.00	13,024.85	58.69	130.71	87.353	-564.58	-1,375.21	3,629.83	3,514.74	115.09	31.540		
16,400.00	13,092.00	21,477.00	13,024.85	60.06	130.71	87.353	-564.58	-1,375.21	3,721.67	3,607.29	114.38	32.538		
16,500.00	13,092.00	21,477.00	13,024.85	61.44	130.71	87.353	-564.58	-1,375.21	3,813.92	3,700.21	113.71	33.541		
16,600.00	13,092.00	21,477.00	13,024.85	62.81	130.71	87.353	-564.58	-1,375.21	3,906.55	3,793.48	113.07	34.548		
16,700.00	13,092.00	21,477.00	13,024.85	64.20	130.71	87.353	-564.58	-1,375.21	3,999.54	3,887.06	112.48	35.559		
16,800.00	13,092.00	21,477.00	13,024.85	65.58	130.71	87.353	-564.58	-1,375.21	4,092.85	3,980.94	111.91	36.572		
16,900.00	13,092.00	21,477.00	13,024.85	66.97	130.71	87.353	-564.58	-1,375.21	4,186.48	4,075.10	111.38	37.588		
17,000.00	13,092.00	21,477.00	13,024.85	68.36	130.71	87.353	-564.58	-1,375.21	4,280.40	4,169.52	110.88	38.605		
17,100.00	13,092.00	21,477.00	13,024.85	69.75	130.71	87.353	-564.58	-1,375.21	4,374.58	4,264.18	110.40	39.625		
17,200.00	13,092.00	21,477.00	13,024.85	71.14	130.71	87.353	-564.58	-1,375.21	4,469.02	4,359.06	109.95	40.646		
17,300.00	13,092.00	21,477.00	13,024.85	72.54	130.71	87.353	-564.58	-1,375.21	4,563.69	4,454.16	109.53	41.667		
17,400.00	13,092.00	21,477.00	13,024.85	73.94	130.71	87.353	-564.58	-1,375.21	4,658.59	4,549.46	109.13	42.690		
17,500.00	13,092.00	21,477.00	13,024.85	75.34	130.71	87.353	-564.58	-1,375.21	4,753.69	4,644.94	108.75	43.713		
17,600.00	13,092.00	21,477.00	13,024.85	76.74	130.71	87.353	-564.58	-1,375.21	4,848.99	4,740.60	108.39	44.737		
17,700.00	13,092.00	21,477.00	13,024.85	78.14	130.71	87.353	-564.58	-1,375.21	4,944.48	4,836.43	108.05	45.760		
17,800.00	13,092.00	21,477.00	13,024.85	79.55	130.71	87.353	-564.58	-1,375.21	5,040.15	4,932.41	107.73	46.783		
17,900.00	13,092.00	21,477.00	13,024.85	80.95	130.71	87.353	-564.58	-1,375.21	5,135.97	5,028.54	107.43	47.806		
18,000.00	13,092.00	21,477.00	13,024.85	82.36	130.71	87.353	-564.58	-1,375.21	5,231.96	5,124.81	107.15	48.829		
18,100.00	13,092.00	21,477.00	13,024.85	83.76	130.71	87.353	-564.58	-1,375.21	5,328.09	5,221.21	106.88	49.851		
18,200.00	13,092.00	21,477.00	13,024.85	85.17	130.71	87.353	-564.58	-1,375.21	5,424.36	5,317.73	106.63	50.872		
18,300.00	13,092.00	21,477.00	13,024.85	86.58	130.71	87.353	-564.58	-1,375.21	5,520.77	5,414.38	106.39	51.892		
18,400.00	13,092.00	21,477.00	13,024.85	87.99	130.71	87.353	-564.58	-1,375.21	5,617.30	5,511.13	106.17	52.910		
18,500.00	13,092.00	21,477.00	13,024.85	89.40	130.71	87.353	-564.58	-1,375.21	5,713.95	5,607.99	105.95	53.928		
18,600.00	13,092.00	21,477.00	13,024.85	90.81	130.71	87.353	-564.58	-1,375.21	5,810.71	5,704.95	105.76	54.945		
18,700.00	13,092.00	21,477.00	13,024.85	92.23	130.71	87.353	-564.58	-1,375.21	5,907.58	5,802.01	105.57	55.960		
18,800.00	13,092.00	21,477.00	13,024.85	93.64	130.71	87.353	-564.58	-1,375.21	6,004.55	5,899.16	105.39	56.973		
18,900.00	13,092.00	21,477.00	13,024.85	95.06	130.71	87.353	-564.58	-1,375.21	6,101.63	5,996.40	105.23	57.985		
19,000.00	13,092.00	21,477.00	13,024.85	96.47	130.71	87.353	-564.58	-1,375.21	6,198.79	6,093.72	105.07	58.995		
19,100.00	13,092.00	21,477.00	13,024.85	97.89	130.71	87.353	-564.58	-1,375.21	6,296.04	6,191.12	104.93	60.004		

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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		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)					
19,200.00	13,092.00	21,477.00	13,024.85	99.30	130.71	87.353	-564.58	-1,375.21	6,393.38	6,288.59	104.79	61.010			
19,300.00	13,092.00	21,477.00	13,024.85	100.72	130.71	87.353	-564.58	-1,375.21	6,490.80	6,386.13	104.67	62.015			
19,400.00	13,092.00	21,477.00	13,024.85	102.14	130.71	87.353	-564.58	-1,375.21	6,588.30	6,483.75	104.55	63.017			
19,500.00	13,092.00	21,477.00	13,024.85	103.55	130.71	87.353	-564.58	-1,375.21	6,685.87	6,581.43	104.44	64.018			
19,600.00	13,092.00	21,477.00	13,024.85	104.97	130.71	87.353	-564.58	-1,375.21	6,783.51	6,679.17	104.33	65.017			
19,700.00	13,092.00	21,477.00	13,024.85	106.39	130.71	87.353	-564.58	-1,375.21	6,881.22	6,776.97	104.24	66.013			
19,800.00	13,092.00	21,477.00	13,024.85	107.81	130.71	87.353	-564.58	-1,375.21	6,978.99	6,874.84	104.15	67.007			
19,900.00	13,092.00	21,477.00	13,024.85	109.23	130.71	87.353	-564.58	-1,375.21	7,076.82	6,972.75	104.07	67.999			
20,000.00	13,092.00	21,477.00	13,024.85	110.65	130.71	87.353	-564.58	-1,375.21	7,174.72	7,070.72	104.00	68.989			
20,100.00	13,092.00	21,477.00	13,024.85	112.07	130.71	87.353	-564.58	-1,375.21	7,272.67	7,168.74	103.93	69.976			
20,200.00	13,092.00	21,477.00	13,024.85	113.49	130.71	87.353	-564.58	-1,375.21	7,370.68	7,266.81	103.87	70.962			
20,300.00	13,092.00	21,477.00	13,024.85	114.91	130.71	87.353	-564.58	-1,375.21	7,468.74	7,364.93	103.81	71.944			
20,400.00	13,092.00	21,477.00	13,024.85	116.34	130.71	87.353	-564.58	-1,375.21	7,566.85	7,463.09	103.76	72.924			
20,500.00	13,092.00	21,477.00	13,024.85	117.76	130.71	87.353	-564.58	-1,375.21	7,665.01	7,561.29	103.72	73.902			
20,600.00	13,092.00	21,477.00	13,024.85	119.18	130.71	87.353	-564.58	-1,375.21	7,763.22	7,659.54	103.68	74.877			
20,700.00	13,092.00	21,477.00	13,024.85	120.60	130.71	87.353	-564.58	-1,375.21	7,861.47	7,757.83	103.64	75.850			
20,800.00	13,092.00	21,477.00	13,024.85	122.03	130.71	87.353	-564.58	-1,375.21	7,959.77	7,856.15	103.62	76.820			
20,900.00	13,092.00	21,477.00	13,024.85	123.45	130.71	87.353	-564.58	-1,375.21	8,058.10	7,954.51	103.59	77.788			
21,000.00	13,092.00	21,477.00	13,024.85	124.87	130.71	87.353	-564.58	-1,375.21	8,156.48	8,052.91	103.57	78.753			
21,100.00	13,092.00	21,477.00	13,024.85	126.30	130.71	87.353	-564.58	-1,375.21	8,254.90	8,151.35	103.55	79.715			
21,200.00	13,092.00	21,477.00	13,024.85	127.72	130.71	87.353	-564.58	-1,375.21	8,353.35	8,249.81	103.54	80.675			
21,300.00	13,092.00	21,477.00	13,024.85	129.15	130.71	87.353	-564.58	-1,375.21	8,451.85	8,348.31	103.54	81.632			
21,400.00	13,092.00	21,477.00	13,024.85	130.57	130.71	87.353	-564.58	-1,375.21	8,550.37	8,446.84	103.53	82.587			
21,500.00	13,092.00	21,477.00	13,024.85	132.00	130.71	87.353	-564.58	-1,375.21	8,648.93	8,545.40	103.53	83.538			
21,600.00	13,092.00	21,477.00	13,024.85	133.42	130.71	87.353	-564.58	-1,375.21	8,747.52	8,643.99	103.54	84.487			
21,700.00	13,092.00	21,477.00	13,024.85	134.85	130.71	87.353	-564.58	-1,375.21	8,846.15	8,742.60	103.54	85.433			
21,800.00	13,092.00	21,477.00	13,024.85	136.27	130.71	87.353	-564.58	-1,375.21	8,944.80	8,841.25	103.56	86.377			
21,900.00	13,092.00	21,477.00	13,024.85	137.70	130.71	87.353	-564.58	-1,375.21	9,043.49	8,939.92	103.57	87.317			
22,000.00	13,092.00	21,477.00	13,024.85	139.12	130.71	87.353	-564.58	-1,375.21	9,142.20	9,038.61	103.59	88.255			
22,100.00	13,092.00	21,477.00	13,024.85	140.55	130.71	87.353	-564.58	-1,375.21	9,240.94	9,137.33	103.61	89.190			
22,200.00	13,092.00	21,477.00	13,024.85	141.98	130.71	87.353	-564.58	-1,375.21	9,339.71	9,236.07	103.63	90.123			
22,300.00	13,092.00	21,477.00	13,024.85	143.40	130.71	87.353	-564.58	-1,375.21	9,438.50	9,334.84	103.66	91.052			
22,400.00	13,092.00	21,477.00	13,024.85	144.83	130.71	87.353	-564.58	-1,375.21	9,537.32	9,433.63	103.69	91.979			
22,500.00	13,092.00	21,477.00	13,024.85	146.26	130.71	87.353	-564.58	-1,375.21	9,636.16	9,532.44	103.72	92.902			
22,600.00	13,092.00	21,477.00	13,024.85	147.69	130.71	87.353	-564.58	-1,375.21	9,735.03	9,631.27	103.76	93.823			
22,700.00	13,092.00	21,477.00	13,024.85	149.11	130.71	87.353	-564.58	-1,375.21	9,833.92	9,730.12	103.80	94.741			
22,728.24	13,092.00	21,477.00	13,024.85	149.52	130.71	87.353	-564.58	-1,375.21	9,861.85	9,758.04	103.81	95.000			

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> Cattlemen Fed Com - 513H - OH / 68705 - Surveys (H&P 656)													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 188-MWD+HDGM													<b>Offset Well Error:</b> 1.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Rule Assigned:</b>		<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
0.00	0.00	39.12	-13.88	1.00	1.00	-0.561	7,906.51	-77.39	7,906.90				
100.00	100.00	112.93	59.92	1.08	1.02	-0.565	7,906.76	-77.95	7,907.24	7,905.14	2.10	3,766.621	
200.00	200.00	188.00	134.99	1.60	1.04	-0.573	7,907.25	-79.07	7,907.92	7,905.28	2.64	2,995.483	
300.00	300.00	259.72	206.69	2.01	1.14	-0.583	7,907.97	-80.48	7,908.93	7,905.78	3.15	2,510.672	
400.00	400.00	339.00	285.94	2.35	1.30	-0.595	7,909.03	-82.20	7,910.28	7,906.63	3.65	2,164.609	
500.00	500.00	1,235.00	1,180.46	2.65	4.09	-0.565	7,882.56	-77.73	7,912.26	7,905.54	6.72	1,177.824	
600.00	600.00	1,235.00	1,180.46	2.93	4.09	-0.565	7,882.56	-77.73	7,904.28	7,897.29	6.99	1,130.356	
700.00	700.00	1,317.18	1,262.32	3.18	4.38	-0.548	7,875.70	-75.32	7,896.10	7,888.58	7.53	1,049.089	
800.00	800.00	1,346.32	1,291.38	3.41	4.48	-0.543	7,873.76	-74.56	7,889.43	7,881.57	7.86	1,003.336	
900.00	900.00	1,425.00	1,369.94	3.64	4.76	-0.529	7,869.83	-72.72	7,884.18	7,875.82	8.36	943.416	
1,000.00	1,000.00	1,425.00	1,369.94	3.85	4.76	-0.529	7,869.83	-72.72	7,878.85	7,870.28	8.57	919.323	
1,100.00	1,100.00	1,425.00	1,369.94	4.05	4.76	-0.529	7,869.83	-72.72	7,874.79	7,866.02	8.77	897.549	
1,200.00	1,200.00	1,425.00	1,369.94	4.24	4.76	-0.529	7,869.83	-72.72	7,872.00	7,863.03	8.97	877.749	
1,300.00	1,300.00	1,425.00	1,369.94	4.43	4.76	-0.529	7,869.83	-72.72	7,870.47	7,861.32	9.16	859.655	
1,400.00	1,400.00	1,506.07	1,450.98	4.61	5.04	-0.520	7,868.03	-71.43	7,868.52	7,858.91	9.61	818.751	
1,467.57	1,467.57	1,522.66	1,467.57	4.73	5.09	-0.519	7,867.98	-71.27	7,868.30	7,858.51	9.78	804.162	
1,500.00	1,500.00	1,530.62	1,475.53	4.78	5.12	-0.518	7,867.99	-71.20	7,868.35	7,858.48	9.87	797.363	
1,600.00	1,599.98	1,614.00	1,558.89	4.98	5.40	-170.498	7,869.61	-71.01	7,871.76	7,861.42	10.34	761.298	
1,620.70	1,620.67	1,614.00	1,558.89	4.99	5.40	-170.495	7,869.61	-71.01	7,872.68	7,862.33	10.35	760.503	
1,700.00	1,699.89	1,614.00	1,558.89	5.07	5.40	-170.495	7,869.61	-71.01	7,876.99	7,866.56	10.44	754.851	
1,800.00	1,799.81	1,614.00	1,558.89	5.23	5.40	-170.495	7,869.61	-71.01	7,883.57	7,872.98	10.59	744.654	
1,900.00	1,899.72	1,685.05	1,629.90	5.41	5.64	-170.500	7,872.09	-71.20	7,891.14	7,880.13	11.00	717.320	
2,000.00	1,999.63	1,804.40	1,749.18	5.60	6.04	-170.507	7,876.02	-71.43	7,898.58	7,886.99	11.59	681.314	
2,100.00	2,099.54	1,803.00	1,747.78	5.80	6.03	-170.507	7,875.97	-71.43	7,906.55	7,894.76	11.78	670.979	
2,200.00	2,199.45	1,889.90	1,834.62	6.02	6.33	-170.514	7,879.35	-71.84	7,914.67	7,902.38	12.29	643.994	
2,300.00	2,299.36	1,933.02	1,877.68	6.24	6.47	-170.519	7,881.49	-72.26	7,923.78	7,911.13	12.65	626.220	
2,400.00	2,399.27	1,992.00	1,936.55	6.47	6.67	-170.528	7,884.91	-73.05	7,933.64	7,920.56	13.08	606.547	
2,500.00	2,499.18	2,084.53	2,028.90	6.72	6.99	-170.543	7,890.54	-74.53	7,943.87	7,930.24	13.63	582.634	
2,600.00	2,599.10	2,217.81	2,161.95	6.96	7.45	-170.565	7,898.07	-76.78	7,953.67	7,939.32	14.34	554.607	
2,700.00	2,699.01	2,323.98	2,267.96	7.22	7.82	-170.580	7,903.85	-78.21	7,963.26	7,948.30	14.96	532.300	
2,800.00	2,798.92	2,436.58	2,380.38	7.48	8.21	-170.593	7,909.86	-79.27	7,972.76	7,957.15	15.61	510.792	
2,900.00	2,898.83	2,540.85	2,484.51	7.74	8.57	-170.604	7,915.27	-80.08	7,982.10	7,965.87	16.23	491.688	
3,000.00	2,998.74	2,640.66	2,584.18	8.01	8.92	-170.612	7,920.44	-80.63	7,991.44	7,974.59	16.85	474.322	
3,100.00	3,098.65	2,728.95	2,672.36	8.28	9.23	-170.617	7,925.07	-80.75	8,000.83	7,983.40	17.43	459.141	
3,200.00	3,198.56	2,815.30	2,758.57	8.56	9.54	-170.617	7,929.75	-80.21	8,010.39	7,992.39	18.00	445.024	
3,300.00	3,298.47	2,905.24	2,848.37	8.84	9.85	-170.613	7,934.77	-79.04	8,020.09	8,001.50	18.59	431.403	
3,400.00	3,398.39	2,996.97	2,939.94	9.13	10.18	-170.606	7,939.98	-77.50	8,029.90	8,010.70	19.19	418.415	
3,500.00	3,498.30	3,033.00	2,975.90	9.41	10.30	-170.602	7,942.05	-76.80	8,040.01	8,020.42	19.59	410.387	
3,600.00	3,598.21	3,129.47	3,072.17	9.70	10.65	-170.597	7,947.99	-75.51	8,050.30	8,030.09	20.22	398.228	
3,700.00	3,698.12	3,222.00	3,164.49	9.99	10.97	-170.601	7,954.38	-75.47	8,061.33	8,040.50	20.83	387.054	
3,800.00	3,798.03	3,254.36	3,196.76	10.29	11.09	-170.604	7,956.76	-75.63	8,072.61	8,051.39	21.22	380.429	
3,900.00	3,897.94	3,325.32	3,267.51	10.58	11.34	-170.607	7,962.17	-75.71	8,084.37	8,062.62	21.76	371.587	
4,000.00	3,997.85	3,411.00	3,352.91	10.88	11.65	-170.608	7,969.04	-75.33	8,096.50	8,074.15	22.35	362.270	
4,100.00	4,097.76	3,465.51	3,407.23	11.18	11.85	-170.607	7,973.61	-74.80	8,108.94	8,086.12	22.83	355.227	
4,200.00	4,197.68	3,534.32	3,475.77	11.48	12.10	-170.603	7,979.61	-73.82	8,121.78	8,098.42	23.36	347.677	
4,300.00	4,297.59	4,357.00	4,297.17	11.78	15.00	-170.625	8,013.36	-71.65	8,127.51	8,100.88	26.63	305.161	
4,400.00	4,397.50	4,428.65	4,368.79	12.08	15.25	-170.642	8,013.49	-73.55	8,131.87	8,104.69	27.18	299.152	
4,500.00	4,497.41	4,504.54	4,444.66	12.39	15.52	-170.660	8,013.85	-75.61	8,136.53	8,108.78	27.75	293.224	
4,600.00	4,597.32	4,583.78	4,523.86	12.69	15.79	-170.678	8,014.45	-77.69	8,141.47	8,113.15	28.33	287.404	
4,700.00	4,697.23	4,683.21	4,623.28	13.00	16.14	-170.693	8,015.40	-79.14	8,146.60	8,117.62	28.98	281.107	
4,800.00	4,797.14	4,817.34	4,757.41	13.31	16.61	-170.702	8,016.33	-79.50	8,151.45	8,121.70	29.76	273.935	
4,900.00	4,897.05	20,819.00	13,031.93	13.62	122.35	-170.002	85.75	83.85	8,138.18	8,063.00	75.19	108.240	

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





## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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		
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	4,996.97	20,819.00	13,031.93	13.92	122.35	-170.002	85.75	83.85	8,038.42	7,963.07	75.35	106.681		
5,100.00	5,096.88	20,819.00	13,031.93	14.23	122.35	-170.002	85.75	83.85	7,938.67	7,863.15	75.52	105.125		
5,200.00	5,196.79	20,819.00	13,031.93	14.55	122.35	-170.002	85.75	83.85	7,838.92	7,763.24	75.69	103.573		
5,300.00	5,296.70	20,819.00	13,031.93	14.86	122.35	-170.002	85.75	83.85	7,739.18	7,663.33	75.86	102.024		
5,400.00	5,396.61	20,819.00	13,031.93	15.17	122.35	-170.002	85.75	83.85	7,639.45	7,563.42	76.03	100.480		
5,500.00	5,496.52	20,819.00	13,031.93	15.48	122.35	-170.002	85.75	83.85	7,539.73	7,463.52	76.21	98.939		
5,600.00	5,596.43	20,819.00	13,031.93	15.79	122.35	-170.002	85.75	83.85	7,440.01	7,363.62	76.38	97.402		
5,700.00	5,696.34	20,819.00	13,031.93	16.11	122.35	-170.002	85.75	83.85	7,340.30	7,263.73	76.57	95.869		
5,800.00	5,796.26	20,819.00	13,031.93	16.42	122.35	-170.002	85.75	83.85	7,240.59	7,163.84	76.75	94.340		
5,900.00	5,896.17	20,819.00	13,031.93	16.74	122.35	-170.002	85.75	83.85	7,140.90	7,063.96	76.94	92.816		
6,000.00	5,996.08	21,195.00	13,035.95	17.05	127.42	-163.942	-289.29	103.89	7,041.02	6,960.94	80.08	87.927		
6,100.00	6,095.99	21,195.00	13,035.95	17.37	127.42	-163.942	-289.29	103.89	6,941.05	6,860.78	80.27	86.468		
6,200.00	6,195.90	21,195.00	13,035.95	17.68	127.42	-163.942	-289.29	103.89	6,841.09	6,760.62	80.47	85.014		
6,300.00	6,295.81	21,195.00	13,035.95	18.00	127.42	-163.942	-289.29	103.89	6,741.13	6,660.46	80.67	83.563		
6,400.00	6,395.72	21,195.00	13,035.95	18.32	127.42	-163.942	-289.29	103.89	6,641.17	6,560.29	80.87	82.117		
6,500.00	6,495.63	21,195.00	13,035.95	18.63	127.42	-163.942	-289.29	103.89	6,541.21	6,460.13	81.08	80.676		
6,600.00	6,595.55	21,195.00	13,035.95	18.95	127.42	-163.942	-289.29	103.89	6,441.25	6,359.96	81.29	79.239		
6,700.00	6,695.46	21,195.00	13,035.95	19.27	127.42	-163.942	-289.29	103.89	6,341.29	6,259.79	81.50	77.807		
6,800.00	6,795.37	21,195.00	13,035.95	19.59	127.42	-163.942	-289.29	103.89	6,241.34	6,159.63	81.71	76.380		
6,900.00	6,895.28	21,195.00	13,035.95	19.91	127.42	-163.942	-289.29	103.89	6,141.39	6,059.46	81.93	74.958		
7,000.00	6,995.19	21,195.00	13,035.95	20.23	127.42	-163.942	-289.29	103.89	6,041.43	5,959.28	82.15	73.541		
7,100.00	7,095.10	21,195.00	13,035.95	20.54	127.42	-163.942	-289.29	103.89	5,941.48	5,859.11	82.37	72.130		
7,200.00	7,195.01	21,195.00	13,035.95	20.86	127.42	-163.942	-289.29	103.89	5,841.53	5,758.94	82.60	70.723		
7,300.00	7,294.92	21,195.00	13,035.95	21.18	127.42	-163.942	-289.29	103.89	5,741.59	5,658.76	82.82	69.322		
7,400.00	7,394.84	21,195.00	13,035.95	21.50	127.42	-163.942	-289.29	103.89	5,641.64	5,558.59	83.05	67.927		
7,500.00	7,494.75	21,195.00	13,035.95	21.82	127.42	-163.942	-289.29	103.89	5,541.70	5,458.41	83.29	66.537		
7,600.00	7,594.66	21,195.00	13,035.95	22.14	127.42	-163.942	-289.29	103.89	5,441.76	5,358.23	83.52	65.153		
7,700.00	7,694.57	21,195.00	13,035.95	22.46	127.42	-163.942	-289.29	103.89	5,341.82	5,258.06	83.76	63.774		
7,800.00	7,794.48	21,195.00	13,035.95	22.78	127.42	-163.942	-289.29	103.89	5,241.88	5,157.88	84.00	62.401		
7,900.00	7,894.39	21,226.27	13,035.40	23.10	127.84	-162.299	-320.52	105.12	5,141.67	5,057.17	84.50	60.848		
8,000.00	7,994.30	21,227.30	13,035.39	23.42	127.85	-162.231	-321.56	105.16	5,041.71	4,956.96	84.76	59.485		
8,100.00	8,094.21	21,228.36	13,035.38	23.75	127.87	-162.159	-322.62	105.21	4,941.76	4,856.75	85.01	58.129		
8,200.00	8,194.13	21,229.45	13,035.36	24.07	127.88	-162.085	-323.70	105.27	4,841.81	4,756.54	85.28	56.778		
8,300.00	8,294.04	21,230.57	13,035.35	24.39	127.90	-162.007	-324.82	105.32	4,741.86	4,656.32	85.54	55.434		
8,400.00	8,393.95	21,231.71	13,035.34	24.71	127.91	-161.926	-325.97	105.38	4,641.92	4,556.11	85.81	54.097		
8,500.00	8,493.86	21,232.89	13,035.33	25.03	127.93	-161.841	-327.14	105.44	4,541.97	4,455.89	86.08	52.765		
8,600.00	8,593.77	21,234.11	13,035.32	25.35	127.95	-161.752	-328.36	105.50	4,442.03	4,355.67	86.35	51.441		
8,700.00	8,693.68	21,235.35	13,035.31	25.67	127.96	-161.659	-329.60	105.56	4,342.08	4,255.45	86.63	50.123		
8,800.00	8,793.59	21,236.64	13,035.30	26.00	127.98	-161.561	-330.88	105.63	4,242.14	4,155.23	86.91	48.811		
8,900.00	8,893.50	21,237.96	13,035.29	26.32	128.00	-161.458	-332.20	105.70	4,142.20	4,055.01	87.19	47.507		
9,000.00	8,993.42	21,239.32	13,035.28	26.64	128.02	-161.350	-333.56	105.77	4,042.27	3,954.79	87.48	46.209		
9,100.00	9,093.33	21,240.72	13,035.27	26.96	128.04	-161.236	-334.96	105.85	3,942.33	3,854.56	87.77	44.918		
9,200.00	9,193.24	21,242.16	13,035.26	27.29	128.05	-161.115	-336.40	105.93	3,842.40	3,754.34	88.06	43.634		
9,300.00	9,293.15	21,243.65	13,035.25	27.61	128.07	-160.988	-337.89	106.01	3,742.47	3,654.11	88.35	42.357		
9,400.00	9,393.06	21,245.19	13,035.25	27.93	128.10	-160.854	-339.42	106.09	3,642.54	3,553.88	88.65	41.087		
9,500.00	9,492.97	21,246.77	13,035.24	28.25	128.12	-160.712	-341.00	106.19	3,542.61	3,453.66	88.96	39.825		
9,600.00	9,592.88	21,248.41	13,035.23	28.58	128.14	-160.562	-342.63	106.28	3,442.69	3,353.43	89.26	38.569		
9,700.00	9,692.79	21,250.10	13,035.23	28.90	128.16	-160.402	-344.32	106.38	3,342.77	3,253.20	89.57	37.321		
9,800.00	9,792.71	21,251.84	13,035.22	29.22	128.19	-160.232	-346.06	106.48	3,242.85	3,152.97	89.88	36.080		
9,900.00	9,892.62	21,253.65	13,035.22	29.55	128.21	-160.050	-347.87	106.59	3,142.93	3,052.74	90.19	34.846		
10,000.00	9,992.53	21,255.52	13,035.22	29.87	128.24	-159.857	-349.73	106.71	3,043.02	2,952.51	90.51	33.620		
10,100.00	10,092.44	21,257.45	13,035.22	30.19	128.26	-159.650	-351.67	106.83	2,943.11	2,852.28	90.83	32.401		

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> Cattlemen Fed Com - 513H - OH / 68705 - Surveys (H&P 656)												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 188-MWD+HdGM												<b>Offset Well Error:</b>	1.00 usft
<b>Rule Assigned:</b>												<b>Warning</b>	
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	
10,200.00	10,192.35	21,259.46	13,035.22	30.52	128.29	-159.428	-353.67	106.95	2,843.21	2,752.05	91.16	31.190	
10,300.00	10,292.26	21,261.54	13,035.22	30.84	128.32	-159.189	-355.74	107.09	2,743.30	2,651.82	91.49	29.986	
10,400.00	10,392.17	21,263.70	13,035.22	31.16	128.35	-158.932	-357.89	107.23	2,643.41	2,551.59	91.82	28.790	
10,500.00	10,492.08	21,289.00	13,035.40	31.49	128.69	-154.995	-383.13	109.06	2,543.72	2,451.35	92.36	27.540	
10,600.00	10,592.00	21,289.00	13,035.40	31.81	128.69	-154.995	-383.13	109.06	2,443.79	2,351.11	92.68	26.367	
10,700.00	10,691.91	21,289.00	13,035.40	32.13	128.69	-154.995	-383.13	109.06	2,343.87	2,250.87	93.00	25.202	
10,800.00	10,791.82	21,289.00	13,035.40	32.46	128.69	-154.995	-383.13	109.06	2,243.96	2,150.63	93.33	24.044	
10,900.00	10,891.73	21,289.00	13,035.40	32.78	128.69	-154.995	-383.13	109.06	2,144.06	2,050.41	93.65	22.893	
11,000.00	10,991.64	21,289.00	13,035.40	33.11	128.69	-154.995	-383.13	109.06	2,044.17	1,950.18	93.98	21.751	
11,100.00	11,091.55	21,289.00	13,035.40	33.43	128.69	-154.995	-383.13	109.06	1,944.28	1,849.97	94.31	20.616	
11,200.00	11,191.46	21,289.00	13,035.40	33.75	128.69	-154.995	-383.13	109.06	1,844.41	1,749.77	94.64	19.488	
11,300.00	11,291.37	21,289.00	13,035.40	34.08	128.69	-154.995	-383.13	109.06	1,744.56	1,649.58	94.98	18.369	
11,400.00	11,391.29	21,292.51	13,035.44	34.40	128.74	-154.275	-386.63	109.33	1,644.72	1,549.37	95.35	17.250	
11,500.00	11,491.20	21,299.10	13,035.51	34.73	128.83	-152.774	-393.20	109.86	1,544.88	1,449.12	95.75	16.134	
11,600.00	11,591.11	21,305.49	13,035.57	35.05	128.91	-151.100	-399.57	110.37	1,445.03	1,348.87	96.16	15.027	
11,700.00	11,691.02	21,311.68	13,035.63	35.38	129.00	-149.227	-405.73	110.87	1,345.19	1,248.62	96.57	13.929	
11,800.00	11,790.93	21,317.68	13,035.68	35.70	129.08	-147.122	-411.71	111.37	1,245.35	1,148.36	96.99	12.840	
11,900.00	11,890.84	21,323.50	13,035.73	36.03	129.16	-144.747	-417.52	111.85	1,145.51	1,048.10	97.41	11.760	
11,907.54	11,898.38	21,323.93	13,035.73	36.05	129.16	-144.556	-417.95	111.89	1,137.98	1,040.54	97.44	11.679	
12,000.00	11,990.80	21,327.45	13,035.75	36.33	129.21	-110.625	-421.45	112.18	1,045.62	947.81	97.81	10.690	
12,028.24	12,019.04	21,327.82	13,035.76	36.36	129.22	74.667	-421.82	112.21	1,017.40	919.47	97.93	10.390	
12,100.00	12,090.80	21,328.37	13,035.76	36.36	129.22	75.491	-422.37	112.26	945.69	847.49	98.21	9.630	
12,200.00	12,190.80	21,329.11	13,035.76	36.36	129.23	76.617	-423.10	112.32	845.78	747.17	98.61	8.577	
12,300.00	12,290.80	21,329.82	13,035.77	36.36	129.24	77.718	-423.82	112.38	745.89	646.87	99.02	7.533	
12,400.00	12,390.80	21,330.52	13,035.77	36.37	129.25	78.793	-424.51	112.44	646.03	546.57	99.46	6.496	
12,500.00	12,490.80	21,331.20	13,035.78	36.37	129.26	79.844	-425.19	112.50	546.22	446.30	99.92	5.466	
12,528.24	12,519.04	21,331.39	13,035.78	36.37	129.26	80.136	-425.38	112.51	518.05	417.98	100.06	5.177	
12,550.00	12,540.79	21,331.97	13,035.78	36.40	129.27	-124.039	-425.96	112.56	496.36	396.18	100.18	4.955	
12,600.00	12,590.61	21,336.58	13,035.81	36.63	129.33	-148.876	-430.55	112.95	446.74	346.24	100.50	4.445	
12,650.00	12,639.89	21,345.65	13,035.86	36.95	129.46	-156.970	-439.59	113.73	397.76	296.86	100.90	3.942	
12,700.00	12,688.24	21,359.02	13,035.90	37.29	129.64	-160.135	-452.90	114.89	349.81	248.39	101.42	3.449	
12,750.00	12,735.30	21,376.50	13,035.93	37.62	129.88	-161.127	-470.32	116.46	303.27	201.18	102.09	2.971	
12,800.00	12,780.72	21,397.53	13,035.92	37.96	130.16	-160.813	-491.25	118.37	258.58	155.56	103.02	2.510	
12,850.00	12,824.15	21,422.17	13,035.91	38.29	130.50	-159.355	-515.79	120.63	216.23	111.84	104.39	2.071	
12,900.00	12,865.26	21,450.49	13,035.90	38.60	130.88	-156.589	-543.99	123.22	176.74	70.18	106.56	1.659	
12,950.00	12,903.73	21,474.00	13,035.88	38.90	131.20	-153.921	-567.41	125.37	141.07	31.42	109.65	1.287 Level 3	
13,000.00	12,939.27	21,474.00	13,035.88	39.18	131.20	-155.090	-567.41	125.37	117.73	7.03	110.69	1.064 Level 3	
13,026.24	12,956.66	21,474.00	13,035.88	39.31	131.20	-155.240	-567.41	125.37	114.22	4.62	109.61	1.042 Level 3, CC, ES, SF	
13,050.00	12,971.62	21,474.00	13,035.88	39.43	131.20	-155.117	-567.41	125.37	117.10	9.74	107.36	1.091 Level 3	
13,100.00	13,000.52	21,474.00	13,035.88	39.65	131.20	-154.009	-567.41	125.37	139.51	38.20	101.31	1.377 Level 3	
13,150.00	13,025.76	21,474.00	13,035.88	39.85	131.20	-151.470	-567.41	125.37	176.26	79.11	97.14	1.814	
13,200.00	13,047.14	21,474.00	13,035.88	40.02	131.20	-146.705	-567.41	125.37	220.08	125.09	94.99	2.317	
13,250.00	13,064.50	21,474.00	13,035.88	40.15	131.20	-137.806	-567.41	125.37	267.27	173.44	93.83	2.849	
13,300.00	13,077.71	21,474.00	13,035.88	40.26	131.20	-120.284	-567.41	125.37	316.05	222.97	93.08	3.395	
13,350.00	13,086.67	21,474.00	13,035.88	40.33	131.20	-88.241	-567.41	125.37	365.49	272.99	92.51	3.951	
13,400.00	13,091.30	21,474.00	13,035.88	40.38	131.20	-53.635	-567.41	125.37	415.05	323.05	92.01	4.511	
13,428.24	13,092.00	21,474.00	13,035.88	40.39	131.20	-40.447	-567.41	125.37	442.95	351.22	91.74	4.828	
13,500.00	13,092.00	21,474.00	13,035.88	40.40	131.20	-40.447	-567.41	125.37	513.85	422.66	91.19	5.635	
13,600.00	13,092.00	21,474.00	13,035.88	40.43	131.20	-40.447	-567.41	125.37	612.98	522.28	90.70	6.758	
13,700.00	13,092.00	21,474.00	13,035.88	40.46	131.20	-40.447	-567.41	125.37	712.36	621.97	90.39	7.881	
13,800.00	13,092.00	21,474.00	13,035.88	40.50	131.20	-40.447	-567.41	125.37	811.89	721.70	90.19	9.002	
13,900.00	13,092.00	21,474.00	13,035.88	40.53	131.20	-40.447	-567.41	125.37	911.52	821.47	90.04	10.123	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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
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	13,092.00	21,474.00	13,035.88	40.58	131.20	-40.447	-567.41	125.37	1,011.22	921.28	89.94	11.243			
14,100.00	13,092.00	21,474.00	13,035.88	40.63	131.20	-40.447	-567.41	125.37	1,110.98	1,021.11	89.87	12.362			
14,200.00	13,092.00	21,474.00	13,035.88	40.69	131.20	-40.447	-567.41	125.37	1,210.78	1,120.95	89.82	13.479			
14,300.00	13,092.00	21,474.00	13,035.88	40.76	131.20	-40.447	-567.41	125.37	1,310.61	1,220.82	89.79	14.596			
14,400.00	13,092.00	21,474.00	13,035.88	40.85	131.20	-40.447	-567.41	125.37	1,410.46	1,320.69	89.77	15.712			
14,500.00	13,092.00	21,474.00	13,035.88	40.95	131.20	-40.447	-567.41	125.37	1,510.33	1,420.58	89.76	16.827			
14,600.00	13,092.00	21,474.00	13,035.88	41.10	131.20	-40.447	-567.41	125.37	1,610.22	1,520.47	89.75	17.941			
14,700.00	13,092.00	21,474.00	13,035.88	41.29	131.20	-40.447	-567.41	125.37	1,710.12	1,620.37	89.75	19.054			
14,800.00	13,092.00	21,474.00	13,035.88	41.57	131.20	-40.447	-567.41	125.37	1,810.03	1,720.27	89.76	20.165			
14,900.00	13,092.00	21,474.00	13,035.88	41.99	131.20	-40.447	-567.41	125.37	1,909.96	1,820.18	89.77	21.275			
15,000.00	13,092.00	21,474.00	13,035.88	42.60	131.20	-40.447	-567.41	125.37	2,009.88	1,920.10	89.79	22.385			
15,100.00	13,092.00	21,474.00	13,035.88	43.42	131.20	-40.447	-567.41	125.37	2,109.82	2,020.01	89.81	23.493			
15,200.00	13,092.00	21,474.00	13,035.88	44.43	131.20	-40.447	-567.41	125.37	2,209.76	2,119.93	89.83	24.599			
15,300.00	13,092.00	21,474.00	13,035.88	45.56	131.20	-40.447	-567.41	125.37	2,309.71	2,219.85	89.86	25.704			
15,400.00	13,092.00	21,474.00	13,035.88	46.76	131.20	-40.447	-567.41	125.37	2,409.66	2,319.78	89.88	26.808			
15,500.00	13,092.00	21,474.00	13,035.88	48.01	131.20	-40.447	-567.41	125.37	2,509.61	2,419.70	89.92	27.911			
15,600.00	13,092.00	21,474.00	13,035.88	49.30	131.20	-40.447	-567.41	125.37	2,609.57	2,519.63	89.95	29.012			
15,700.00	13,092.00	21,474.00	13,035.88	50.61	131.20	-40.447	-567.41	125.37	2,709.53	2,619.55	89.98	30.111			
15,800.00	13,092.00	21,474.00	13,035.88	51.93	131.20	-40.447	-567.41	125.37	2,809.50	2,719.48	90.02	31.209			
15,900.00	13,092.00	21,474.00	13,035.88	53.27	131.20	-40.447	-567.41	125.37	2,909.47	2,819.41	90.06	32.306			
16,000.00	13,092.00	21,474.00	13,035.88	54.61	131.20	-40.447	-567.41	125.37	3,009.43	2,919.33	90.10	33.401			
16,100.00	13,092.00	21,474.00	13,035.88	55.97	131.20	-40.447	-567.41	125.37	3,109.41	3,019.26	90.14	34.494			
16,200.00	13,092.00	21,474.00	13,035.88	57.33	131.20	-40.447	-567.41	125.37	3,209.38	3,119.19	90.19	35.585			
16,300.00	13,092.00	21,474.00	13,035.88	58.69	131.20	-40.447	-567.41	125.37	3,309.35	3,219.12	90.23	36.675			
16,400.00	13,092.00	21,474.00	13,035.88	60.06	131.20	-40.447	-567.41	125.37	3,409.33	3,319.05	90.28	37.763			
16,500.00	13,092.00	21,474.00	13,035.88	61.44	131.20	-40.447	-567.41	125.37	3,509.31	3,418.97	90.33	38.849			
16,600.00	13,092.00	21,474.00	13,035.88	62.81	131.20	-40.447	-567.41	125.37	3,609.28	3,518.90	90.38	39.933			
16,700.00	13,092.00	21,474.00	13,035.88	64.20	131.20	-40.447	-567.41	125.37	3,709.26	3,618.83	90.44	41.016			
16,800.00	13,092.00	21,474.00	13,035.88	65.58	131.20	-40.447	-567.41	125.37	3,809.25	3,718.76	90.49	42.096			
16,900.00	13,092.00	21,474.00	13,035.88	66.97	131.20	-40.447	-567.41	125.37	3,909.23	3,818.68	90.54	43.175			
17,000.00	13,092.00	21,474.00	13,035.88	68.36	131.20	-40.447	-567.41	125.37	4,009.21	3,918.61	90.60	44.251			
17,100.00	13,092.00	21,474.00	13,035.88	69.75	131.20	-40.447	-567.41	125.37	4,109.19	4,018.53	90.66	45.326			
17,200.00	13,092.00	21,474.00	13,035.88	71.14	131.20	-40.447	-567.41	125.37	4,209.18	4,118.46	90.72	46.398			
17,300.00	13,092.00	21,474.00	13,035.88	72.54	131.20	-40.447	-567.41	125.37	4,309.16	4,218.38	90.78	47.468			
17,400.00	13,092.00	21,474.00	13,035.88	73.94	131.20	-40.447	-567.41	125.37	4,409.15	4,318.31	90.84	48.537			
17,500.00	13,092.00	21,474.00	13,035.88	75.34	131.20	-40.447	-567.41	125.37	4,509.13	4,418.23	90.91	49.603			
17,600.00	13,092.00	21,474.00	13,035.88	76.74	131.20	-40.447	-567.41	125.37	4,609.12	4,518.15	90.97	50.666			
17,700.00	13,092.00	21,474.00	13,035.88	78.14	131.20	-40.447	-567.41	125.37	4,709.11	4,618.07	91.04	51.728			
17,800.00	13,092.00	21,474.00	13,035.88	79.55	131.20	-40.447	-567.41	125.37	4,809.10	4,717.99	91.10	52.787			
17,900.00	13,092.00	21,474.00	13,035.88	80.95	131.20	-40.447	-567.41	125.37	4,909.09	4,817.91	91.17	53.844			
18,000.00	13,092.00	21,474.00	13,035.88	82.36	131.20	-40.447	-567.41	125.37	5,009.07	4,917.83	91.24	54.899			
18,100.00	13,092.00	21,474.00	13,035.88	83.76	131.20	-40.447	-567.41	125.37	5,109.06	5,017.75	91.31	55.951			
18,200.00	13,092.00	21,474.00	13,035.88	85.17	131.20	-40.447	-567.41	125.37	5,209.05	5,117.67	91.38	57.001			
18,300.00	13,092.00	21,474.00	13,035.88	86.58	131.20	-40.447	-567.41	125.37	5,309.04	5,217.59	91.46	58.049			
18,400.00	13,092.00	21,474.00	13,035.88	87.99	131.20	-40.447	-567.41	125.37	5,409.03	5,317.50	91.53	59.094			
18,500.00	13,092.00	21,474.00	13,035.88	89.40	131.20	-40.447	-567.41	125.37	5,509.02	5,417.42	91.61	60.136			
18,600.00	13,092.00	21,474.00	13,035.88	90.81	131.20	-40.447	-567.41	125.37	5,609.02	5,517.33	91.69	61.176			
18,700.00	13,092.00	21,474.00	13,035.88	92.23	131.20	-40.447	-567.41	125.37	5,709.01	5,617.24	91.76	62.214			
18,800.00	13,092.00	21,474.00	13,035.88	93.64	131.20	-40.447	-567.41	125.37	5,809.00	5,717.16	91.84	63.249			
18,900.00	13,092.00	21,474.00	13,035.88	95.06	131.20	-40.447	-567.41	125.37	5,908.99	5,817.07	91.92	64.282			
19,000.00	13,092.00	21,474.00	13,035.88	96.47	131.20	-40.447	-567.41	125.37	6,008.98	5,916.98	92.01	65.311			
19,100.00	13,092.00	21,474.00	13,035.88	97.89	131.20	-40.447	-567.41	125.37	6,108.98	6,016.89	92.09	66.339			

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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		
19,200.00	13,092.00	21,474.00	13,035.88	99.30	131.20	-40.447	-567.41	125.37	6,208.97	6,116.80	92.17	67.363		
19,300.00	13,092.00	21,474.00	13,035.88	100.72	131.20	-40.447	-567.41	125.37	6,308.96	6,216.71	92.26	68.385		
19,400.00	13,092.00	21,474.00	13,035.88	102.14	131.20	-40.447	-567.41	125.37	6,408.96	6,316.61	92.34	69.404		
19,500.00	13,092.00	21,474.00	13,035.88	103.55	131.20	-40.447	-567.41	125.37	6,508.95	6,416.52	92.43	70.421		
19,600.00	13,092.00	21,474.00	13,035.88	104.97	131.20	-40.447	-567.41	125.37	6,608.94	6,516.43	92.52	71.435		
19,700.00	13,092.00	21,474.00	13,035.88	106.39	131.20	-40.447	-567.41	125.37	6,708.94	6,616.33	92.61	72.446		
19,800.00	13,092.00	21,474.00	13,035.88	107.81	131.20	-40.447	-567.41	125.37	6,808.93	6,716.23	92.70	73.454		
19,900.00	13,092.00	21,474.00	13,035.88	109.23	131.20	-40.447	-567.41	125.37	6,908.92	6,816.14	92.79	74.459		
20,000.00	13,092.00	21,474.00	13,035.88	110.65	131.20	-40.447	-567.41	125.37	7,008.92	6,916.04	92.88	75.462		
20,100.00	13,092.00	21,474.00	13,035.88	112.07	131.20	-40.447	-567.41	125.37	7,108.91	7,015.94	92.97	76.461		
20,200.00	13,092.00	21,474.00	13,035.88	113.49	131.20	-40.447	-567.41	125.37	7,208.91	7,115.84	93.07	77.458		
20,300.00	13,092.00	21,474.00	13,035.88	114.91	131.20	-40.447	-567.41	125.37	7,308.90	7,215.74	93.16	78.452		
20,400.00	13,092.00	21,474.00	13,035.88	116.34	131.20	-40.447	-567.41	125.37	7,408.90	7,315.64	93.26	79.443		
20,500.00	13,092.00	21,474.00	13,035.88	117.76	131.20	-40.447	-567.41	125.37	7,508.89	7,415.54	93.36	80.432		
20,600.00	13,092.00	21,474.00	13,035.88	119.18	131.20	-40.447	-567.41	125.37	7,608.89	7,515.43	93.46	81.417		
20,700.00	13,092.00	21,474.00	13,035.88	120.60	131.20	-40.447	-567.41	125.37	7,708.88	7,615.33	93.56	82.399		
20,800.00	13,092.00	21,474.00	13,035.88	122.03	131.20	-40.447	-567.41	125.37	7,808.88	7,715.22	93.66	83.379		
20,900.00	13,092.00	21,474.00	13,035.88	123.45	131.20	-40.447	-567.41	125.37	7,908.88	7,815.12	93.76	84.355		
21,000.00	13,092.00	21,474.00	13,035.88	124.87	131.20	-40.447	-567.41	125.37	8,008.87	7,915.01	93.86	85.329		
21,100.00	13,092.00	21,474.00	13,035.88	126.30	131.20	-40.447	-567.41	125.37	8,108.87	8,014.90	93.96	86.299		
21,200.00	13,092.00	21,474.00	13,035.88	127.72	131.20	-40.447	-567.41	125.37	8,208.86	8,114.80	94.07	87.267		
21,300.00	13,092.00	21,474.00	13,035.88	129.15	131.20	-40.447	-567.41	125.37	8,308.86	8,214.69	94.17	88.231		
21,400.00	13,092.00	21,474.00	13,035.88	130.57	131.20	-40.447	-567.41	125.37	8,408.85	8,314.58	94.28	89.192		
21,500.00	13,092.00	21,474.00	13,035.88	132.00	131.20	-40.447	-567.41	125.37	8,508.85	8,414.47	94.38	90.151		
21,600.00	13,092.00	21,474.00	13,035.88	133.42	131.20	-40.447	-567.41	125.37	8,608.85	8,514.35	94.49	91.106		
21,700.00	13,092.00	21,474.00	13,035.88	134.85	131.20	-40.447	-567.41	125.37	8,708.84	8,614.24	94.60	92.058		
21,800.00	13,092.00	21,474.00	13,035.88	136.27	131.20	-40.447	-567.41	125.37	8,808.84	8,714.13	94.71	93.007		
21,900.00	13,092.00	21,474.00	13,035.88	137.70	131.20	-40.447	-567.41	125.37	8,908.84	8,814.01	94.82	93.953		
22,000.00	13,092.00	21,474.00	13,035.88	139.12	131.20	-40.447	-567.41	125.37	9,008.83	8,913.90	94.93	94.896		
22,100.00	13,092.00	21,474.00	13,035.88	140.55	131.20	-40.447	-567.41	125.37	9,108.83	9,013.78	95.05	95.836		
22,200.00	13,092.00	21,474.00	13,035.88	141.98	131.20	-40.447	-567.41	125.37	9,208.83	9,113.67	95.16	96.773		
22,300.00	13,092.00	21,474.00	13,035.88	143.40	131.20	-40.447	-567.41	125.37	9,308.82	9,213.55	95.27	97.707		
22,400.00	13,092.00	21,474.00	13,035.88	144.83	131.20	-40.447	-567.41	125.37	9,408.82	9,313.43	95.39	98.637		
22,500.00	13,092.00	21,474.00	13,035.88	146.26	131.20	-40.447	-567.41	125.37	9,508.82	9,413.31	95.50	99.564		
22,600.00	13,092.00	21,474.00	13,035.88	147.69	131.20	-40.447	-567.41	125.37	9,608.81	9,513.19	95.62	100.489		
22,700.00	13,092.00	21,474.00	13,035.88	149.11	131.20	-40.447	-567.41	125.37	9,708.81	9,613.07	95.74	101.410		
22,728.24	13,092.00	21,474.00	13,035.88	149.52	131.20	-40.447	-567.41	125.37	9,737.05	9,641.28	95.77	101.669		

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> Cattlemen Fed Com - Deep - Cattleman Fed Com 404H - OH / 67732 - Surveys (H&P 474)													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 174-MWD+HRGM													<b>Offset Well Error:</b> 1.00 usft
<b>Rule Assigned:</b>													
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	0.00	-43.00	1.00	1.00	6.886	8,043.23	971.29	8,101.78				
100.00	100.00	86.21	43.20	1.08	1.13	6.891	8,043.44	972.05	8,102.17	8,099.96	2.20	3,675.806	
200.00	200.00	174.00	130.96	1.60	1.44	6.907	8,044.09	974.39	8,103.19	8,100.16	3.03	2,678.256	
300.00	300.00	390.14	347.07	2.01	2.67	6.912	8,044.02	975.13	8,103.05	8,098.39	4.66	1,739.994	
400.00	400.00	487.11	444.03	2.35	3.03	6.904	8,043.60	973.99	8,102.47	8,097.11	5.37	1,509.317	
500.00	500.00	567.63	524.55	2.65	3.22	6.901	8,043.29	973.50	8,102.03	8,096.18	5.85	1,385.993	
600.00	600.00	649.98	606.90	2.93	3.39	6.899	8,043.19	973.17	8,101.85	8,095.57	6.28	1,289.081	
700.00	700.00	755.87	712.79	3.18	3.61	6.896	8,043.16	972.81	8,101.79	8,095.05	6.74	1,202.349	
800.00	800.00	845.65	802.57	3.41	3.75	6.895	8,043.05	972.64	8,101.64	8,094.53	7.11	1,139.514	
812.74	812.74	855.82	812.74	3.44	3.77	6.895	8,043.05	972.64	8,101.64	8,094.49	7.15	1,132.821	
900.00	900.00	946.79	903.71	3.64	3.89	6.896	8,043.05	972.68	8,101.65	8,094.18	7.47	1,084.401	
1,000.00	1,000.00	1,043.31	1,000.23	3.85	4.02	6.896	8,043.01	972.69	8,101.61	8,093.80	7.81	1,036.726	
1,100.00	1,100.00	1,156.23	1,113.15	4.05	4.23	6.894	8,042.96	972.48	8,101.55	8,093.33	8.21	986.775	
1,160.41	1,160.41	1,203.50	1,160.41	4.16	4.28	6.894	8,042.93	972.38	8,101.50	8,093.12	8.38	967.277	
1,200.00	1,200.00	1,235.17	1,192.09	4.24	4.31	6.893	8,042.95	972.38	8,101.52	8,093.03	8.49	954.652	
1,300.00	1,300.00	1,343.62	1,300.54	4.43	4.43	6.896	8,042.92	972.77	8,101.53	8,092.72	8.81	919.265	
1,303.19	1,303.19	1,346.27	1,303.19	4.43	4.43	6.896	8,042.92	972.79	8,101.53	8,092.71	8.82	918.291	
1,400.00	1,400.00	1,432.42	1,389.33	4.61	4.53	6.901	8,042.93	973.38	8,101.63	8,092.51	9.12	888.823	
1,469.92	1,469.92	1,525.18	1,482.10	4.73	4.65	6.904	8,042.86	973.90	8,101.62	8,092.25	9.37	865.036	
1,500.00	1,500.00	1,532.69	1,489.60	4.78	4.72	6.906	8,042.86	974.08	8,101.64	8,092.20	9.44	858.110	
1,600.00	1,599.98	1,603.00	1,559.87	4.98	5.03	-163.054	8,042.91	976.56	8,103.74	8,093.98	9.76	830.153	
1,620.70	1,620.67	1,603.00	1,559.87	4.99	5.03	-163.049	8,042.91	976.56	8,104.64	8,094.86	9.77	829.252	
1,700.00	1,699.89	1,640.77	1,597.56	5.07	5.40	-163.036	8,043.01	978.97	8,108.65	8,098.71	9.94	816.094	
1,800.00	1,799.81	1,696.00	1,652.57	5.23	5.95	-163.007	8,043.29	983.81	8,114.23	8,104.02	10.21	794.981	
1,900.00	1,899.72	1,808.69	1,764.70	5.41	6.32	-162.938	8,043.79	995.11	8,119.91	8,109.37	10.54	770.717	
2,000.00	1,999.63	1,878.00	1,833.67	5.60	6.43	-162.897	8,044.29	1,001.88	8,125.84	8,115.02	10.81	751.583	
2,100.00	2,099.54	1,954.55	1,909.84	5.80	6.56	-162.851	8,045.09	1,009.43	8,132.10	8,120.99	11.11	731.661	
2,200.00	2,199.45	2,053.53	2,008.32	6.02	6.75	-162.791	8,046.18	1,019.39	8,138.48	8,127.02	11.46	710.029	
2,300.00	2,299.36	2,148.12	2,102.42	6.24	6.95	-162.734	8,047.24	1,028.88	8,144.88	8,133.07	11.81	689.446	
2,400.00	2,399.27	2,266.47	2,220.14	6.47	7.22	-162.660	8,048.44	1,041.09	8,151.22	8,139.01	12.21	667.529	
2,500.00	2,499.18	2,376.61	2,329.65	6.72	7.49	-162.589	8,049.33	1,052.72	8,157.40	8,144.79	12.61	646.985	
2,600.00	2,599.10	2,583.55	2,535.31	6.96	8.04	-162.448	8,049.68	1,075.66	8,163.22	8,150.06	13.17	620.052	
2,700.00	2,699.01	2,716.15	2,667.09	7.22	8.42	-162.356	8,048.28	1,090.36	8,167.60	8,153.98	13.61	599.959	
2,800.00	2,798.92	2,825.00	2,775.32	7.48	8.81	-162.285	8,047.02	1,101.83	8,171.86	8,157.84	14.03	582.502	
2,900.00	2,898.83	2,884.99	2,835.09	7.74	9.02	-162.254	8,046.57	1,106.92	8,176.33	8,161.96	14.37	569.015	
3,000.00	2,998.74	2,941.62	2,891.56	8.01	9.20	-162.229	8,046.60	1,111.31	8,181.42	8,166.71	14.71	556.238	
3,100.00	3,098.65	3,018.66	2,968.35	8.28	9.43	-162.193	8,046.89	1,117.48	8,186.88	8,171.80	15.08	542.815	
3,200.00	3,198.56	3,109.00	3,058.38	8.56	9.70	-162.150	8,047.35	1,124.92	8,192.52	8,177.04	15.48	529.227	
3,300.00	3,298.47	3,192.60	3,141.69	8.84	9.96	-162.111	8,047.91	1,131.80	8,198.32	8,182.44	15.87	516.472	
3,400.00	3,398.39	3,264.33	3,213.17	9.13	10.18	-162.076	8,048.58	1,137.76	8,204.40	8,188.15	16.25	504.796	
3,500.00	3,498.30	3,339.75	3,288.31	9.41	10.42	-162.039	8,049.53	1,144.20	8,210.83	8,194.19	16.64	493.433	
3,600.00	3,598.21	3,421.21	3,369.45	9.70	10.67	-161.999	8,050.74	1,151.28	8,217.50	8,200.46	17.04	482.175	
3,700.00	3,698.12	3,546.89	3,494.56	9.99	11.08	-161.931	8,052.63	1,163.02	8,224.35	8,206.83	17.52	469.353	
3,800.00	3,798.03	3,705.85	3,653.00	10.29	11.60	-161.858	8,053.98	1,175.89	8,230.25	8,212.20	18.05	455.981	
3,900.00	3,897.94	4,074.88	4,020.63	10.58	12.83	-161.672	8,049.95	1,207.12	8,234.35	8,215.43	18.93	435.086	
4,000.00	3,997.85	4,153.00	4,098.44	10.88	13.09	-161.631	8,047.98	1,213.82	8,237.07	8,217.76	19.32	426.407	
4,100.00	4,097.76	4,247.32	4,192.42	11.18	13.40	-161.585	8,045.81	1,221.55	8,239.98	8,220.25	19.73	417.710	
4,200.00	4,197.68	4,326.71	4,271.53	11.48	13.67	-161.546	8,044.04	1,227.96	8,242.95	8,222.84	20.12	409.706	
4,300.00	4,297.59	4,417.04	4,361.55	11.78	13.97	-161.503	8,042.22	1,235.15	8,246.13	8,225.60	20.53	401.718	
4,400.00	4,397.50	4,506.74	4,450.95	12.08	14.28	-161.461	8,040.51	1,242.29	8,249.41	8,228.47	20.94	394.022	
4,500.00	4,497.41	4,594.62	4,538.95	12.39	14.59	-161.418	-201.97	1,586.35	8,163.32	8,083.60	79.72	102.398	
4,600.00	4,597.32	4,684.13	4,628.94	12.69	14.89	-161.375	-202.49	1,586.36	8,065.11	7,985.22	79.89	100.953	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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: Reference		174-MWD+HRGM 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	
4,700.00	4,697.23	20,645.66	12,508.94	13.00	123.43	-89.468	-203.01	1,586.37	7,966.94	7,886.88	80.06	99.511		
4,800.00	4,797.14	20,646.19	12,508.93	13.31	123.44	-89.448	-203.55	1,586.38	7,868.82	7,788.58	80.24	98.070		
4,900.00	4,897.05	20,646.74	12,508.92	13.62	123.44	-89.427	-204.10	1,586.39	7,770.74	7,690.33	80.42	96.633		
5,000.00	4,996.97	20,647.30	12,508.92	13.92	123.45	-89.407	-204.66	1,586.40	7,672.72	7,592.12	80.60	95.198		
5,100.00	5,096.88	20,686.00	12,508.89	14.23	123.99	-87.967	-243.35	1,587.00	7,575.23	7,494.14	81.09	93.413		
5,200.00	5,196.79	20,686.00	12,508.89	14.55	123.99	-87.967	-243.35	1,587.00	7,477.30	7,396.02	81.28	91.994		
5,300.00	5,296.70	20,686.00	12,508.89	14.86	123.99	-87.967	-243.35	1,587.00	7,379.42	7,297.95	81.47	90.578		
5,400.00	5,396.61	20,686.00	12,508.89	15.17	123.99	-87.967	-243.35	1,587.00	7,281.60	7,199.93	81.66	89.166		
5,500.00	5,496.52	20,686.00	12,508.89	15.48	123.99	-87.967	-243.35	1,587.00	7,183.83	7,101.97	81.86	87.756		
5,600.00	5,596.43	20,686.00	12,508.89	15.79	123.99	-87.967	-243.35	1,587.00	7,086.13	7,004.07	82.06	86.349		
5,700.00	5,696.34	20,686.00	12,508.89	16.11	123.99	-87.967	-243.35	1,587.00	6,988.50	6,906.23	82.27	84.946		
5,800.00	5,796.26	20,686.00	12,508.89	16.42	123.99	-87.967	-243.35	1,587.00	6,890.93	6,808.45	82.48	83.546		
5,900.00	5,896.17	20,686.00	12,508.89	16.74	123.99	-87.967	-243.35	1,587.00	6,793.44	6,710.74	82.70	82.150		
6,000.00	5,996.08	20,686.00	12,508.89	17.05	123.99	-87.967	-243.35	1,587.00	6,696.01	6,613.10	82.92	80.757		
6,100.00	6,095.99	20,686.00	12,508.89	17.37	123.99	-87.967	-243.35	1,587.00	6,598.67	6,515.53	83.14	79.368		
6,200.00	6,195.90	20,686.00	12,508.89	17.68	123.99	-87.967	-243.35	1,587.00	6,501.40	6,418.03	83.37	77.982		
6,300.00	6,295.81	20,686.00	12,508.89	18.00	123.99	-87.967	-243.35	1,587.00	6,404.22	6,320.62	83.61	76.601		
6,400.00	6,395.72	20,686.00	12,508.89	18.32	123.99	-87.967	-243.35	1,587.00	6,307.13	6,223.29	83.85	75.223		
6,500.00	6,495.63	20,686.00	12,508.89	18.63	123.99	-87.967	-243.35	1,587.00	6,210.13	6,126.04	84.09	73.850		
6,600.00	6,595.55	20,686.00	12,508.89	18.95	123.99	-87.967	-243.35	1,587.00	6,113.23	6,028.88	84.34	72.481		
6,700.00	6,695.46	20,686.00	12,508.89	19.27	123.99	-87.967	-243.35	1,587.00	6,016.43	5,931.83	84.60	71.116		
6,800.00	6,795.37	20,686.00	12,508.89	19.59	123.99	-87.967	-243.35	1,587.00	5,919.73	5,834.87	84.86	69.755		
6,900.00	6,895.28	20,686.00	12,508.89	19.91	123.99	-87.967	-243.35	1,587.00	5,823.15	5,738.01	85.13	68.399		
7,000.00	6,995.19	20,686.00	12,508.89	20.23	123.99	-87.967	-243.35	1,587.00	5,726.68	5,641.27	85.41	67.048		
7,100.00	7,095.10	20,686.00	12,508.89	20.54	123.99	-87.967	-243.35	1,587.00	5,630.34	5,544.64	85.70	65.701		
7,200.00	7,195.01	20,686.00	12,508.89	20.86	123.99	-87.967	-243.35	1,587.00	5,534.12	5,448.13	85.99	64.359		
7,300.00	7,294.92	20,686.00	12,508.89	21.18	123.99	-87.967	-243.35	1,587.00	5,438.05	5,351.76	86.29	63.022		
7,400.00	7,394.84	20,686.00	12,508.89	21.50	123.99	-87.967	-243.35	1,587.00	5,342.11	5,255.52	86.60	61.690		
7,500.00	7,494.75	20,686.00	12,508.89	21.82	123.99	-87.967	-243.35	1,587.00	5,246.33	5,159.42	86.91	60.363		
7,600.00	7,594.66	20,686.00	12,508.89	22.14	123.99	-87.967	-243.35	1,587.00	5,150.71	5,063.47	87.24	59.042		
7,700.00	7,694.57	20,686.00	12,508.89	22.46	123.99	-87.967	-243.35	1,587.00	5,055.26	4,967.68	87.57	57.725		
7,800.00	7,794.48	20,686.00	12,508.89	22.78	123.99	-87.967	-243.35	1,587.00	4,959.99	4,872.07	87.92	56.414		
7,900.00	7,894.39	20,686.00	12,508.89	23.10	123.99	-87.967	-243.35	1,587.00	4,864.90	4,776.63	88.28	55.109		
8,000.00	7,994.30	20,686.00	12,508.89	23.42	123.99	-87.967	-243.35	1,587.00	4,770.02	4,681.38	88.65	53.810		
8,100.00	8,094.21	20,686.00	12,508.89	23.75	123.99	-87.967	-243.35	1,587.00	4,675.36	4,586.33	89.03	52.516		
8,200.00	8,194.13	20,686.00	12,508.89	24.07	123.99	-87.967	-243.35	1,587.00	4,580.91	4,491.49	89.42	51.228		
8,300.00	8,294.04	20,686.00	12,508.89	24.39	123.99	-87.967	-243.35	1,587.00	4,486.71	4,396.88	89.83	49.947		
8,400.00	8,393.95	20,686.00	12,508.89	24.71	123.99	-87.967	-243.35	1,587.00	4,392.77	4,302.52	90.25	48.671		
8,500.00	8,493.86	20,686.00	12,508.89	25.03	123.99	-87.967	-243.35	1,587.00	4,299.10	4,208.41	90.69	47.403		
8,600.00	8,593.77	20,686.00	12,508.89	25.35	123.99	-87.967	-243.35	1,587.00	4,205.72	4,114.57	91.15	46.141		
8,700.00	8,693.68	20,686.00	12,508.89	25.67	123.99	-87.967	-243.35	1,587.00	4,112.65	4,021.03	91.63	44.885		
8,800.00	8,793.59	20,686.00	12,508.89	26.00	123.99	-87.967	-243.35	1,587.00	4,019.92	3,927.79	92.12	43.637		
8,900.00	8,893.50	20,686.00	12,508.89	26.32	123.99	-87.967	-243.35	1,587.00	3,927.54	3,834.90	92.64	42.396		
9,000.00	8,993.42	20,686.00	12,508.89	26.64	123.99	-87.967	-243.35	1,587.00	3,835.54	3,742.36	93.18	41.163		
9,100.00	9,093.33	20,686.00	12,508.89	26.96	123.99	-87.967	-243.35	1,587.00	3,743.96	3,650.21	93.75	39.937		
9,200.00	9,193.24	20,686.00	12,508.89	27.29	123.99	-87.967	-243.35	1,587.00	3,652.81	3,558.47	94.34	38.720		
9,300.00	9,293.15	20,686.00	12,508.89	27.61	123.99	-87.967	-243.35	1,587.00	3,562.14	3,467.18	94.96	37.511		
9,400.00	9,393.06	20,686.00	12,508.89	27.93	123.99	-87.967	-243.35	1,587.00	3,471.99	3,376.37	95.62	36.312		
9,500.00	9,492.97	20,707.82	12,509.21	28.25	124.29	-87.152	-265.16	1,587.17	3,382.27	3,285.75	96.51	35.044		
9,600.00	9,592.88	20,711.53	12,509.28	28.58	124.34	-87.013	-268.87	1,587.19	3,293.22	3,195.94	97.28	33.853		
9,700.00	9,692.79	20,715.41	12,509.36	28.90	124.39	-86.868	-272.76	1,587.20	3,204.81	3,106.72	98.09	32.673		
9,800.00	9,792.71	20,719.48	12,509.46	29.22	124.45	-86.716	-276.83	1,587.21	3,117.09	3,018.15	98.94	31.504		

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





## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,900.00	9,892.62	20,723.75	12,509.56	29.55	124.51	-86.556	-281.09	1,587.21	3,030.12	2,930.28	99.85	30.348		
10,000.00	9,992.53	20,728.22	12,509.67	29.87	124.57	-86.388	-285.56	1,587.21	2,943.98	2,843.17	100.81	29.204		
10,100.00	10,092.44	20,732.93	12,509.80	30.19	124.64	-86.212	-290.27	1,587.20	2,858.72	2,756.90	101.83	28.075		
10,200.00	10,192.35	20,737.88	12,509.94	30.52	124.70	-86.027	-295.21	1,587.18	2,774.44	2,671.53	102.91	26.960		
10,300.00	10,292.26	20,743.09	12,510.11	30.84	124.78	-85.831	-300.42	1,587.16	2,691.22	2,587.16	104.06	25.862		
10,400.00	10,392.17	20,748.59	12,510.29	31.16	124.85	-85.625	-305.92	1,587.12	2,609.16	2,503.88	105.29	24.781		
10,500.00	10,492.08	20,754.40	12,510.49	31.49	124.93	-85.407	-311.73	1,587.07	2,528.38	2,421.79	106.59	23.720		
10,600.00	10,592.00	20,760.55	12,510.72	31.81	125.02	-85.176	-317.87	1,587.01	2,449.00	2,341.02	107.98	22.679		
10,700.00	10,691.91	20,767.06	12,510.98	32.13	125.11	-84.931	-324.38	1,586.93	2,371.16	2,261.69	109.46	21.662		
10,800.00	10,791.82	20,781.00	12,511.58	32.46	125.30	-84.407	-338.30	1,586.73	2,295.02	2,183.91	111.11	20.655		
10,900.00	10,891.73	20,781.39	12,511.60	32.78	125.31	-84.393	-338.69	1,586.72	2,220.73	2,108.02	112.71	19.703		
11,000.00	10,991.64	20,790.10	12,512.00	33.11	125.43	-84.065	-347.39	1,586.57	2,148.50	2,034.01	114.49	18.766		
11,100.00	11,091.55	20,798.82	12,512.40	33.43	125.55	-83.737	-356.10	1,586.43	2,078.54	1,962.17	116.37	17.861		
11,200.00	11,191.46	20,807.53	12,512.80	33.75	125.67	-83.408	-364.80	1,586.28	2,011.08	1,892.73	118.34	16.993		
11,300.00	11,291.37	20,816.25	12,513.20	34.08	125.79	-83.079	-373.51	1,586.13	1,946.38	1,825.97	120.41	16.165		
11,400.00	11,391.29	20,824.96	12,513.60	34.40	125.91	-82.750	-382.21	1,585.98	1,884.73	1,762.17	122.56	15.379		
11,500.00	11,491.20	20,833.68	12,514.00	34.73	126.03	-82.421	-390.92	1,585.84	1,826.43	1,701.66	124.77	14.638		
11,600.00	11,591.11	20,842.39	12,514.40	35.05	126.15	-82.091	-399.62	1,585.69	1,771.83	1,644.78	127.04	13.947		
11,700.00	11,691.02	20,851.11	12,514.80	35.38	126.28	-81.761	-408.33	1,585.54	1,721.26	1,591.91	129.35	13.307		
11,800.00	11,790.93	20,859.82	12,515.20	35.70	126.40	-81.431	-417.03	1,585.39	1,675.09	1,543.43	131.65	12.723		
11,900.00	11,890.84	20,868.54	12,515.60	36.03	126.52	-81.101	-425.74	1,585.25	1,633.70	1,499.76	133.94	12.197		
11,907.54	11,898.38	20,869.20	12,515.63	36.05	126.53	-81.076	-426.39	1,585.24	1,630.78	1,496.68	134.11	12.160		
12,000.00	11,990.80	20,875.79	12,515.93	36.33	126.62	-80.126	-432.98	1,585.12	1,597.69	1,461.56	136.13	11.737		
12,028.24	12,019.04	20,877.23	12,516.00	36.36	126.64	90.103	-434.41	1,585.10	1,588.61	1,451.91	136.70	11.621		
12,100.00	12,090.80	20,880.52	12,516.15	36.36	126.68	90.228	-437.70	1,585.04	1,567.64	1,429.55	138.09	11.352		
12,200.00	12,190.80	20,885.11	12,516.36	36.36	126.75	90.402	-442.28	1,584.97	1,543.50	1,403.60	139.90	11.033		
12,300.00	12,290.80	20,889.69	12,516.57	36.36	126.81	90.576	-446.87	1,584.89	1,525.54	1,384.01	141.52	10.779		
12,400.00	12,390.80	20,894.28	12,516.78	36.37	126.87	90.750	-451.45	1,584.81	1,513.97	1,371.03	142.94	10.592		
12,500.00	12,490.80	20,898.87	12,516.99	36.37	126.94	90.925	-456.03	1,584.73	1,508.93	1,364.81	144.12	10.470		
12,526.24	12,517.04	20,900.08	12,517.04	36.37	126.96	90.970	-457.24	1,584.71	1,508.70	1,364.32	144.38	10.449 CC		
12,528.24	12,519.04	20,900.17	12,517.05	36.37	126.96	90.974	-457.33	1,584.71	1,508.71	1,364.31	144.40	10.448		
12,550.00	12,540.79	20,901.58	12,517.11	36.40	126.98	-88.404	-458.74	1,584.69	1,508.88	1,364.26	144.62	10.433 ES		
12,600.00	12,590.61	20,907.93	12,517.40	36.63	127.06	-88.016	-465.08	1,584.58	1,510.36	1,365.21	145.16	10.405		
12,650.00	12,639.89	20,918.58	12,517.89	36.95	127.21	-87.328	-475.72	1,584.40	1,513.30	1,367.58	145.72	10.385		
12,700.00	12,688.24	20,933.45	12,518.58	37.29	127.42	-86.363	-490.57	1,584.15	1,517.56	1,371.27	146.29	10.373		
12,750.00	12,735.30	20,952.41	12,519.45	37.62	127.68	-85.155	-509.51	1,583.83	1,522.99	1,376.09	146.89	10.368 SF		
12,800.00	12,780.72	20,964.00	12,519.98	37.96	127.84	-84.116	-521.08	1,583.63	1,529.42	1,382.08	147.34	10.381		
12,850.00	12,824.15	20,964.00	12,519.98	38.29	127.84	-83.357	-521.08	1,583.63	1,536.96	1,389.41	147.55	10.416		
12,900.00	12,865.26	20,964.00	12,519.98	38.60	127.84	-82.488	-521.08	1,583.63	1,545.59	1,397.86	147.72	10.463		
12,950.00	12,903.73	20,964.00	12,519.98	38.90	127.84	-81.516	-521.08	1,583.63	1,555.22	1,407.37	147.85	10.519		
13,000.00	12,939.27	20,964.00	12,519.98	39.18	127.84	-80.451	-521.08	1,583.63	1,565.76	1,417.84	147.93	10.585		
13,050.00	12,971.62	20,964.00	12,519.98	39.43	127.84	-79.303	-521.08	1,583.63	1,577.12	1,429.16	147.96	10.659		
13,100.00	13,000.52	20,964.00	12,519.98	39.65	127.84	-78.084	-521.08	1,583.63	1,589.18	1,441.24	147.95	10.741		
13,150.00	13,025.76	20,964.00	12,519.98	39.85	127.84	-76.805	-521.08	1,583.63	1,601.85	1,453.96	147.89	10.831		
13,200.00	13,047.14	20,964.00	12,519.98	40.02	127.84	-75.481	-521.08	1,583.63	1,615.02	1,467.23	147.79	10.928		
13,250.00	13,064.50	20,964.00	12,519.98	40.15	127.84	-74.123	-521.08	1,583.63	1,628.56	1,480.92	147.64	11.030		
13,300.00	13,077.71	20,964.00	12,519.98	40.26	127.84	-72.744	-521.08	1,583.63	1,642.38	1,494.93	147.45	11.138		
13,350.00	13,086.67	20,964.00	12,519.98	40.33	127.84	-71.359	-521.08	1,583.63	1,656.36	1,509.14	147.22	11.251		
13,400.00	13,091.30	20,964.00	12,519.98	40.38	127.84	-69.980	-521.08	1,583.63	1,670.39	1,523.46	146.94	11.368		
13,428.24	13,092.00	20,964.00	12,519.98	40.39	127.84	-69.208	-521.08	1,583.63	1,678.30	1,531.55	146.75	11.436		
13,500.00	13,092.00	20,964.00	12,519.98	40.40	127.84	-69.208	-521.08	1,583.63	1,699.75	1,553.55	146.20	11.626		
13,600.00	13,092.00	20,964.00	12,519.98	40.43	127.84	-69.208	-521.08	1,583.63	1,734.16	1,588.91	145.26	11.939		

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> Cattlemen Fed Com - Deep - Cattleman Fed Com 404H - OH / 67732 - Surveys (H&P 474)												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 174-MWD+HRGM												<b>Offset Well Error:</b>	1.00 usft
<b>Reference</b>												<b>Rule Assigned:</b>	
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
				<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
13,700.00	13,092.00	20,964.00	12,519.98	40.46	127.84	-69.208	-521.08	1,583.63	1,773.55	1,629.44	144.11	12.307	
13,800.00	13,092.00	20,964.00	12,519.98	40.50	127.84	-69.208	-521.08	1,583.63	1,817.59	1,674.81	142.79	12.729	
13,900.00	13,092.00	20,964.00	12,519.98	40.53	127.84	-69.208	-521.08	1,583.63	1,865.96	1,724.65	141.31	13.205	
14,000.00	13,092.00	20,964.00	12,519.98	40.58	127.84	-69.208	-521.08	1,583.63	1,918.33	1,778.61	139.71	13.730	
14,100.00	13,092.00	20,964.00	12,519.98	40.63	127.84	-69.208	-521.08	1,583.63	1,974.37	1,836.35	138.02	14.305	
14,200.00	13,092.00	20,964.00	12,519.98	40.69	127.84	-69.208	-521.08	1,583.63	2,033.79	1,897.53	136.26	14.926	
14,300.00	13,092.00	20,964.00	12,519.98	40.76	127.84	-69.208	-521.08	1,583.63	2,096.30	1,961.84	134.46	15.591	
14,400.00	13,092.00	20,964.00	12,519.98	40.85	127.84	-69.208	-521.08	1,583.63	2,161.63	2,028.99	132.64	16.297	
14,500.00	13,092.00	20,964.00	12,519.98	40.95	127.84	-69.208	-521.08	1,583.63	2,229.53	2,098.71	130.81	17.043	
14,600.00	13,092.00	20,964.00	12,519.98	41.10	127.84	-69.208	-521.08	1,583.63	2,299.77	2,170.77	129.00	17.827	
14,700.00	13,092.00	20,964.00	12,519.98	41.29	127.84	-69.208	-521.08	1,583.63	2,372.15	2,244.93	127.22	18.646	
14,800.00	13,092.00	20,964.00	12,519.98	41.57	127.84	-69.208	-521.08	1,583.63	2,446.48	2,321.01	125.47	19.498	
14,900.00	13,092.00	20,964.00	12,519.98	41.99	127.84	-69.208	-521.08	1,583.63	2,522.59	2,398.82	123.77	20.382	
15,000.00	13,092.00	20,964.00	12,519.98	42.60	127.84	-69.208	-521.08	1,583.63	2,600.31	2,478.20	122.11	21.295	
15,100.00	13,092.00	20,964.00	12,519.98	43.42	127.84	-69.208	-521.08	1,583.63	2,679.51	2,559.00	120.50	22.236	
15,200.00	13,092.00	20,964.00	12,519.98	44.43	127.84	-69.208	-521.08	1,583.63	2,760.06	2,641.11	118.95	23.203	
15,300.00	13,092.00	20,964.00	12,519.98	45.56	127.84	-69.208	-521.08	1,583.63	2,841.85	2,724.39	117.46	24.194	
15,400.00	13,092.00	20,964.00	12,519.98	46.76	127.84	-69.208	-521.08	1,583.63	2,924.76	2,808.74	116.02	25.209	
15,500.00	13,092.00	20,964.00	12,519.98	48.01	127.84	-69.208	-521.08	1,583.63	3,008.72	2,894.08	114.64	26.245	
15,600.00	13,092.00	20,964.00	12,519.98	49.30	127.84	-69.208	-521.08	1,583.63	3,093.63	2,980.32	113.31	27.301	
15,700.00	13,092.00	20,964.00	12,519.98	50.61	127.84	-69.208	-521.08	1,583.63	3,179.42	3,067.38	112.04	28.377	
15,800.00	13,092.00	20,964.00	12,519.98	51.93	127.84	-69.208	-521.08	1,583.63	3,266.02	3,155.20	110.83	29.470	
15,900.00	13,092.00	20,964.00	12,519.98	53.27	127.84	-69.208	-521.08	1,583.63	3,353.37	3,243.71	109.66	30.580	
16,000.00	13,092.00	20,964.00	12,519.98	54.61	127.84	-69.208	-521.08	1,583.63	3,441.40	3,332.85	108.55	31.705	
16,100.00	13,092.00	20,964.00	12,519.98	55.97	127.84	-69.208	-521.08	1,583.63	3,530.07	3,422.59	107.48	32.844	
16,200.00	13,092.00	20,964.00	12,519.98	57.33	127.84	-69.208	-521.08	1,583.63	3,619.33	3,512.87	106.46	33.998	
16,300.00	13,092.00	20,964.00	12,519.98	58.69	127.84	-69.208	-521.08	1,583.63	3,709.14	3,603.66	105.48	35.163	
16,400.00	13,092.00	20,964.00	12,519.98	60.06	127.84	-69.208	-521.08	1,583.63	3,799.46	3,694.91	104.55	36.341	
16,500.00	13,092.00	20,964.00	12,519.98	61.44	127.84	-69.208	-521.08	1,583.63	3,890.25	3,786.59	103.66	37.529	
16,600.00	13,092.00	20,964.00	12,519.98	62.81	127.84	-69.208	-521.08	1,583.63	3,981.48	3,878.68	102.81	38.728	
16,700.00	13,092.00	20,964.00	12,519.98	64.20	127.84	-69.208	-521.08	1,583.63	4,073.13	3,971.13	101.99	39.935	
16,800.00	13,092.00	20,964.00	12,519.98	65.58	127.84	-69.208	-521.08	1,583.63	4,165.16	4,063.94	101.21	41.152	
16,900.00	13,092.00	20,964.00	12,519.98	66.97	127.84	-69.208	-521.08	1,583.63	4,257.54	4,157.08	100.47	42.376	
17,000.00	13,092.00	20,964.00	12,519.98	68.36	127.84	-69.208	-521.08	1,583.63	4,350.27	4,250.51	99.76	43.608	
17,100.00	13,092.00	20,964.00	12,519.98	69.75	127.84	-69.208	-521.08	1,583.63	4,443.31	4,344.23	99.08	44.847	
17,200.00	13,092.00	20,964.00	12,519.98	71.14	127.84	-69.208	-521.08	1,583.63	4,536.65	4,438.22	98.43	46.091	
17,300.00	13,092.00	20,964.00	12,519.98	72.54	127.84	-69.208	-521.08	1,583.63	4,630.26	4,532.46	97.80	47.342	
17,400.00	13,092.00	20,964.00	12,519.98	73.94	127.84	-69.208	-521.08	1,583.63	4,724.14	4,626.93	97.21	48.597	
17,500.00	13,092.00	20,964.00	12,519.98	75.34	127.84	-69.208	-521.08	1,583.63	4,818.26	4,721.62	96.64	49.857	
17,600.00	13,092.00	20,964.00	12,519.98	76.74	127.84	-69.208	-521.08	1,583.63	4,912.62	4,816.52	96.10	51.122	
17,700.00	13,092.00	20,964.00	12,519.98	78.14	127.84	-69.208	-521.08	1,583.63	5,007.19	4,911.62	95.58	52.390	
17,800.00	13,092.00	20,964.00	12,519.98	79.55	127.84	-69.208	-521.08	1,583.63	5,101.98	5,006.90	95.08	53.661	
17,900.00	13,092.00	20,964.00	12,519.98	80.95	127.84	-69.208	-521.08	1,583.63	5,196.95	5,102.35	94.60	54.935	
18,000.00	13,092.00	20,964.00	12,519.98	82.36	127.84	-69.208	-521.08	1,583.63	5,292.11	5,197.97	94.15	56.212	
18,100.00	13,092.00	20,964.00	12,519.98	83.76	127.84	-69.208	-521.08	1,583.63	5,387.45	5,293.74	93.71	57.491	
18,200.00	13,092.00	20,964.00	12,519.98	85.17	127.84	-69.208	-521.08	1,583.63	5,482.96	5,389.66	93.29	58.772	
18,300.00	13,092.00	20,964.00	12,519.98	86.58	127.84	-69.208	-521.08	1,583.63	5,578.62	5,485.72	92.89	60.054	
18,400.00	13,092.00	20,964.00	12,519.98	87.99	127.84	-69.208	-521.08	1,583.63	5,674.43	5,581.92	92.51	61.338	
18,500.00	13,092.00	20,964.00	12,519.98	89.40	127.84	-69.208	-521.08	1,583.63	5,770.38	5,678.23	92.15	62.622	
18,600.00	13,092.00	20,964.00	12,519.98	90.81	127.84	-69.208	-521.08	1,583.63	5,866.47	5,774.67	91.80	63.907	
18,700.00	13,092.00	20,964.00	12,519.98	92.23	127.84	-69.208	-521.08	1,583.63	5,962.69	5,871.22	91.46	65.193	
18,800.00	13,092.00	20,964.00	12,519.98	93.64	127.84	-69.208	-521.08	1,583.63	6,059.02	5,967.88	91.14	66.478	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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		
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)	
18,900.00	13,092.00	20,964.00	12,519.98	95.06	127.84	-69.208	-521.08	1,583.63	6,155.48	6,064.64	90.84	67.764		
19,000.00	13,092.00	20,964.00	12,519.98	96.47	127.84	-69.208	-521.08	1,583.63	6,252.05	6,161.50	90.55	69.049		
19,100.00	13,092.00	20,964.00	12,519.98	97.89	127.84	-69.208	-521.08	1,583.63	6,348.72	6,258.46	90.27	70.333		
19,200.00	13,092.00	20,964.00	12,519.98	99.30	127.84	-69.208	-521.08	1,583.63	6,445.50	6,355.50	90.00	71.617		
19,300.00	13,092.00	20,964.00	12,519.98	100.72	127.84	-69.208	-521.08	1,583.63	6,542.37	6,452.62	89.74	72.900		
19,400.00	13,092.00	20,964.00	12,519.98	102.14	127.84	-69.208	-521.08	1,583.63	6,639.33	6,549.83	89.50	74.181		
19,500.00	13,092.00	20,964.00	12,519.98	103.55	127.84	-69.208	-521.08	1,583.63	6,736.39	6,647.12	89.27	75.461		
19,600.00	13,092.00	20,964.00	12,519.98	104.97	127.84	-69.208	-521.08	1,583.63	6,833.53	6,744.48	89.05	76.740		
19,700.00	13,092.00	20,964.00	12,519.98	106.39	127.84	-69.208	-521.08	1,583.63	6,930.75	6,841.91	88.84	78.017		
19,800.00	13,092.00	20,964.00	12,519.98	107.81	127.84	-69.208	-521.08	1,583.63	7,028.04	6,939.41	88.63	79.292		
19,900.00	13,092.00	20,964.00	12,519.98	109.23	127.84	-69.208	-521.08	1,583.63	7,125.42	7,036.97	88.44	80.565		
20,000.00	13,092.00	20,964.00	12,519.98	110.65	127.84	-69.208	-521.08	1,583.63	7,222.86	7,134.60	88.26	81.836		
20,100.00	13,092.00	20,964.00	12,519.98	112.07	127.84	-69.208	-521.08	1,583.63	7,320.38	7,232.29	88.09	83.105		
20,200.00	13,092.00	20,964.00	12,519.98	113.49	127.84	-69.208	-521.08	1,583.63	7,417.96	7,330.03	87.92	84.371		
20,300.00	13,092.00	20,964.00	12,519.98	114.91	127.84	-69.208	-521.08	1,583.63	7,515.60	7,427.84	87.76	85.635		
20,400.00	13,092.00	20,964.00	12,519.98	116.34	127.84	-69.208	-521.08	1,583.63	7,613.30	7,525.69	87.61	86.896		
20,500.00	13,092.00	20,964.00	12,519.98	117.76	127.84	-69.208	-521.08	1,583.63	7,711.07	7,623.59	87.47	88.154		
20,600.00	13,092.00	20,964.00	12,519.98	119.18	127.84	-69.208	-521.08	1,583.63	7,808.89	7,721.55	87.34	89.410		
20,700.00	13,092.00	20,964.00	12,519.98	120.60	127.84	-69.208	-521.08	1,583.63	7,906.76	7,819.55	87.21	90.662		
20,800.00	13,092.00	20,964.00	12,519.98	122.03	127.84	-69.208	-521.08	1,583.63	8,004.69	7,917.60	87.09	91.912		
20,900.00	13,092.00	20,964.00	12,519.98	123.45	127.84	-69.208	-521.08	1,583.63	8,102.67	8,015.69	86.98	93.158		
21,000.00	13,092.00	20,964.00	12,519.98	124.87	127.84	-69.208	-521.08	1,583.63	8,200.69	8,113.82	86.87	94.401		
21,100.00	13,092.00	20,964.00	12,519.98	126.30	127.84	-69.208	-521.08	1,583.63	8,298.77	8,212.00	86.77	95.641		
21,200.00	13,092.00	20,964.00	12,519.98	127.72	127.84	-69.208	-521.08	1,583.63	8,396.89	8,310.21	86.68	96.877		
21,300.00	13,092.00	20,964.00	12,519.98	129.15	127.84	-69.208	-521.08	1,583.63	8,495.05	8,408.46	86.59	98.110		
21,400.00	13,092.00	20,964.00	12,519.98	130.57	127.84	-69.208	-521.08	1,583.63	8,593.25	8,506.75	86.50	99.339		
21,500.00	13,092.00	20,964.00	12,519.98	132.00	127.84	-69.208	-521.08	1,583.63	8,691.50	8,605.07	86.43	100.564		
21,600.00	13,092.00	20,964.00	12,519.98	133.42	127.84	-69.208	-521.08	1,583.63	8,789.79	8,703.43	86.36	101.786		
21,700.00	13,092.00	20,964.00	12,519.98	134.85	127.84	-69.208	-521.08	1,583.63	8,888.11	8,801.82	86.29	103.004		
21,800.00	13,092.00	20,964.00	12,519.98	136.27	127.84	-69.208	-521.08	1,583.63	8,986.47	8,900.24	86.23	104.218		
21,900.00	13,092.00	20,964.00	12,519.98	137.70	127.84	-69.208	-521.08	1,583.63	9,084.87	8,998.70	86.17	105.429		
22,000.00	13,092.00	20,964.00	12,519.98	139.12	127.84	-69.208	-521.08	1,583.63	9,183.30	9,097.18	86.12	106.635		
22,100.00	13,092.00	20,964.00	12,519.98	140.55	127.84	-69.208	-521.08	1,583.63	9,281.76	9,195.69	86.07	107.837		
22,200.00	13,092.00	20,964.00	12,519.98	141.98	127.84	-69.208	-521.08	1,583.63	9,380.26	9,294.23	86.03	109.036		
22,300.00	13,092.00	20,964.00	12,519.98	143.40	127.84	-69.208	-521.08	1,583.63	9,478.79	9,392.80	85.99	110.230		
22,400.00	13,092.00	20,964.00	12,519.98	144.83	127.84	-69.208	-521.08	1,583.63	9,577.35	9,491.39	85.96	111.420		
22,500.00	13,092.00	20,964.00	12,519.98	146.26	127.84	-69.208	-521.08	1,583.63	9,675.94	9,590.01	85.93	112.606		
22,600.00	13,092.00	20,964.00	12,519.98	147.69	127.84	-69.208	-521.08	1,583.63	9,774.56	9,688.66	85.90	113.788		
22,700.00	13,092.00	20,964.00	12,519.98	149.11	127.84	-69.208	-521.08	1,583.63	9,873.20	9,787.32	85.88	114.965		
22,728.24	13,092.00	20,964.00	12,519.98	149.52	127.84	-69.208	-521.08	1,583.63	9,901.07	9,815.19	85.87	115.297		

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> Cattlemen Fed Com - Deep - Cattleman Fed Com 434H - OH / 67733 - Surveys (H&P 474)													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 174-MWD+HRGM													<b>Offset Well Error:</b> 1.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
0.00	0.00	68.63	24.63	1.00	1.08	6.462	8,042.60	910.99	8,094.07				
100.00	100.00	198.51	154.48	1.08	1.57	6.442	8,042.18	908.07	8,093.47	8,090.82	2.65	3,052.510	
200.00	200.00	274.16	230.11	1.60	2.06	6.435	8,041.91	906.99	8,092.95	8,089.30	3.65	2,215.532	
300.00	300.00	366.27	322.23	2.01	2.63	6.436	8,041.62	907.19	8,092.66	8,088.07	4.59	1,763.895	
400.00	400.00	454.80	410.75	2.35	3.05	6.440	8,041.34	907.73	8,092.42	8,087.12	5.30	1,526.788	
444.57	444.57	488.62	444.57	2.49	3.13	6.442	8,041.29	907.92	8,092.39	8,086.88	5.51	1,468.263	
500.00	500.00	542.66	498.61	2.65	3.25	6.444	8,041.29	908.17	8,092.41	8,086.62	5.79	1,396.507	
595.52	595.52	639.57	595.52	2.91	3.44	6.447	8,041.19	908.61	8,092.36	8,086.12	6.25	1,295.431	
600.00	600.00	643.16	599.11	2.93	3.45	6.447	8,041.19	908.63	8,092.36	8,086.10	6.27	1,291.468	
700.00	700.00	731.86	687.81	3.18	3.62	6.451	8,041.23	909.22	8,092.48	8,085.79	6.68	1,210.768	
800.00	800.00	819.00	774.94	3.41	3.78	6.456	8,041.30	909.95	8,092.66	8,085.59	7.07	1,144.280	
900.00	900.00	899.01	854.95	3.64	3.92	6.460	8,041.62	910.58	8,093.13	8,085.71	7.43	1,089.727	
1,000.00	1,000.00	1,009.79	965.73	3.85	4.10	6.465	8,042.09	911.24	8,093.62	8,085.81	7.82	1,035.132	
1,100.00	1,100.00	1,134.38	1,090.32	4.05	4.30	6.468	8,042.40	911.82	8,093.93	8,085.71	8.22	984.416	
1,200.00	1,200.00	1,242.56	1,198.50	4.24	4.45	6.470	8,042.41	912.06	8,093.96	8,085.41	8.55	946.592	
1,300.00	1,300.00	1,335.35	1,291.28	4.43	4.60	6.471	8,042.45	912.24	8,094.02	8,085.14	8.88	911.398	
1,400.00	1,400.00	1,429.95	1,385.89	4.61	4.76	6.473	8,042.56	912.51	8,094.17	8,084.96	9.21	878.855	
1,500.00	1,500.00	1,535.06	1,490.99	4.78	4.92	6.474	8,042.69	912.68	8,094.31	8,084.76	9.55	847.812	
1,600.00	1,599.98	1,636.17	1,592.10	4.98	5.05	-163.505	8,042.78	912.71	8,096.08	8,086.20	9.88	819.384	
1,620.70	1,620.67	1,656.37	1,612.30	4.99	5.08	-163.503	8,042.80	912.70	8,096.87	8,086.95	9.92	816.122	
1,700.00	1,699.89	1,736.13	1,692.06	5.07	5.15	-163.510	8,042.90	912.64	8,100.15	8,090.04	10.11	801.080	
1,800.00	1,799.81	1,837.87	1,793.80	5.23	5.23	-163.520	8,043.00	912.42	8,104.27	8,093.88	10.39	779.879	
1,900.00	1,899.72	1,941.09	1,897.02	5.41	5.33	-163.530	8,043.08	912.31	8,108.37	8,097.68	10.69	758.425	
2,000.00	1,999.63	2,057.04	2,012.97	5.60	5.55	-163.533	8,042.93	913.15	8,112.37	8,101.30	11.07	732.790	
2,100.00	2,099.54	2,181.76	2,137.60	5.80	6.00	-163.512	8,042.01	917.65	8,116.08	8,104.59	11.49	706.499	
2,200.00	2,199.45	2,284.08	2,239.76	6.02	6.30	-163.481	8,040.85	923.16	8,119.60	8,107.77	11.82	686.669	
2,300.00	2,299.36	2,370.41	2,325.95	6.24	6.50	-163.453	8,039.95	928.03	8,123.23	8,111.08	12.15	668.508	
2,400.00	2,399.27	2,445.00	2,400.42	6.47	6.69	-163.429	8,039.24	932.27	8,127.01	8,114.53	12.47	651.645	
2,500.00	2,499.18	2,507.87	2,463.19	6.72	6.85	-163.409	8,038.88	935.85	8,131.18	8,118.39	12.79	635.954	
2,600.00	2,599.10	2,561.83	2,517.06	6.96	6.99	-163.392	8,038.93	938.90	8,135.95	8,122.85	13.10	621.258	
2,700.00	2,699.01	2,635.00	2,590.10	7.22	7.18	-163.370	8,039.44	943.08	8,141.28	8,127.84	13.44	605.747	
2,800.00	2,798.92	2,713.66	2,668.62	7.48	7.40	-163.344	8,040.19	947.84	8,146.92	8,133.12	13.80	590.459	
2,900.00	2,898.83	2,809.27	2,764.01	7.74	7.67	-163.329	8,040.99	954.23	8,152.57	8,138.38	14.19	574.670	
3,000.00	2,998.74	2,919.31	2,873.81	8.01	7.99	-163.268	8,041.94	961.34	8,158.21	8,143.61	14.60	558.756	
3,100.00	3,098.65	3,006.60	2,960.97	8.28	8.24	-163.243	8,042.79	966.13	8,163.85	8,148.87	14.99	544.757	
3,200.00	3,198.56	3,093.47	3,047.70	8.56	8.49	-163.218	8,043.77	970.91	8,169.65	8,154.27	15.38	531.354	
3,300.00	3,298.47	3,178.03	3,132.11	8.84	8.75	-163.192	8,044.84	975.78	8,175.62	8,159.85	15.77	518.527	
3,400.00	3,398.39	3,254.84	3,208.78	9.13	8.98	-163.168	8,045.97	980.28	8,181.81	8,165.66	16.15	506.549	
3,500.00	3,498.30	3,523.84	3,477.32	9.41	9.90	-163.085	8,048.07	995.75	8,187.60	8,170.72	16.88	485.184	
3,600.00	3,598.21	3,613.49	3,566.92	9.70	10.42	-163.070	8,047.97	998.96	8,191.95	8,174.51	17.43	469.906	
3,700.00	3,698.12	3,703.29	3,656.70	9.99	10.88	-163.069	8,048.20	1,000.33	8,196.42	8,178.46	17.96	456.349	
3,800.00	3,798.03	3,963.13	3,916.52	10.29	11.20	-163.082	8,047.50	1,001.60	8,200.65	8,182.20	18.45	444.382	
3,900.00	3,897.94	4,028.69	3,982.07	10.58	11.16	-163.092	8,046.78	1,000.87	8,203.45	8,184.70	18.76	437.383	
4,000.00	3,997.85	4,123.42	4,076.79	10.88	11.10	-163.104	8,045.99	1,000.10	8,206.56	8,187.49	19.07	430.296	
4,100.00	4,097.76	4,224.66	4,178.03	11.18	11.12	-163.119	8,045.09	999.21	8,209.60	8,190.12	19.48	421.376	
4,200.00	4,197.68	4,321.19	4,274.55	11.48	11.18	-163.130	8,044.23	998.65	8,212.68	8,192.75	19.93	412.168	
4,300.00	4,297.59	4,431.16	4,384.52	11.78	11.34	-163.141	8,043.18	998.33	8,215.73	8,195.28	20.44	401.874	
4,400.00	4,397.50	4,540.47	4,493.82	12.08	11.51	-163.150	8,041.94	998.25	8,218.62	8,197.65	20.97	391.891	
4,500.00	4,497.41	4,626.98	4,580.32	12.39	11.62	-163.153	8,040.94	998.72	8,221.57	8,200.23	21.34	385.283	
4,600.00	4,597.32	20,653.31	12,689.22	12.69	118.66	-104.560	-60.03	960.14	8,146.34	8,065.72	80.62	101.050	
4,700.00	4,697.23	20,655.08	12,689.24	13.00	118.69	-104.465	-61.81	960.12	8,047.05	7,966.25	80.80	99.590	
4,800.00	4,797.14	20,698.81	12,689.79	13.31	119.31	-102.087	-105.51	959.12	7,947.93	7,866.63	81.30	97.759	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> Cattlemen Fed Com - Deep - Cattleman Fed Com 434H - OH / 67733 - Surveys (H&P 474)												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 174-MWD+HRGM												<b>Offset Well Error:</b>	1.00 usft
<b>Reference</b>												<b>Rule Assigned:</b>	
<b>Offset</b>												<b>Warning</b>	
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
							<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
4,900.00	4,897.05	20,703.51	12,689.82	13.62	119.38	-101.825	-110.22	959.04	7,848.65	7,767.14	81.51	96.286	
5,000.00	4,996.97	20,708.21	12,689.84	13.92	119.45	-101.562	-114.92	958.96	7,749.39	7,667.66	81.73	94.817	
5,100.00	5,096.88	20,712.92	12,689.87	14.23	119.52	-101.298	-119.62	958.88	7,650.14	7,568.19	81.95	93.352	
5,200.00	5,196.79	20,717.62	12,689.90	14.55	119.58	-101.033	-124.32	958.80	7,550.91	7,468.74	82.17	91.892	
5,300.00	5,296.70	20,722.32	12,689.92	14.86	119.65	-100.768	-129.02	958.72	7,451.70	7,369.30	82.40	90.436	
5,400.00	5,396.61	20,727.02	12,689.95	15.17	119.72	-100.501	-133.72	958.64	7,352.50	7,269.88	82.63	88.984	
5,500.00	5,496.52	20,731.72	12,689.98	15.48	119.79	-100.233	-138.42	958.56	7,253.33	7,170.47	82.86	87.538	
5,600.00	5,596.43	20,736.43	12,690.00	15.79	119.85	-99.964	-143.12	958.48	7,154.17	7,071.08	83.10	86.095	
5,700.00	5,696.34	20,741.13	12,690.03	16.11	119.92	-99.694	-147.82	958.40	7,055.04	6,971.70	83.34	84.658	
5,800.00	5,796.26	20,822.20	12,689.91	16.42	121.07	-94.883	-228.88	957.83	6,955.88	6,871.74	84.14	82.666	
5,900.00	5,896.17	20,825.00	12,689.89	16.74	121.11	-94.711	-231.69	957.85	6,856.74	6,772.37	84.38	81.262	
6,000.00	5,996.08	20,827.81	12,689.87	17.05	121.15	-94.539	-234.50	957.87	6,757.63	6,673.02	84.61	79.864	
6,100.00	6,095.99	20,830.63	12,689.84	17.37	121.19	-94.367	-237.31	957.89	6,658.55	6,573.69	84.86	78.469	
6,200.00	6,195.90	20,833.44	12,689.82	17.68	121.23	-94.193	-240.12	957.91	6,559.49	6,474.39	85.10	77.080	
6,300.00	6,295.81	20,836.26	12,689.80	18.00	121.27	-94.020	-242.94	957.93	6,460.46	6,375.11	85.35	75.695	
6,400.00	6,395.72	20,839.08	12,689.77	18.32	121.31	-93.846	-245.76	957.95	6,361.45	6,275.85	85.60	74.315	
6,500.00	6,495.63	20,841.91	12,689.75	18.63	121.35	-93.671	-248.59	957.98	6,262.48	6,176.62	85.86	72.940	
6,600.00	6,595.55	20,844.73	12,689.72	18.95	121.39	-93.496	-251.42	958.00	6,163.54	6,077.42	86.12	71.570	
6,700.00	6,695.46	20,847.57	12,689.70	19.27	121.43	-93.321	-254.25	958.03	6,064.63	5,978.25	86.38	70.205	
6,800.00	6,795.37	20,850.40	12,689.68	19.59	121.47	-93.145	-257.08	958.06	5,965.76	5,879.10	86.65	68.846	
6,900.00	6,895.28	20,853.24	12,689.65	19.91	121.51	-92.969	-259.92	958.09	5,866.92	5,779.99	86.93	67.491	
7,000.00	6,995.19	20,856.08	12,689.63	20.23	121.55	-92.792	-262.76	958.12	5,768.12	5,680.92	87.21	66.143	
7,100.00	7,095.10	20,858.92	12,689.61	20.54	121.59	-92.615	-265.60	958.15	5,669.37	5,581.88	87.49	64.799	
7,200.00	7,195.01	20,861.77	12,689.58	20.86	121.63	-92.437	-268.45	958.19	5,570.65	5,482.87	87.78	63.462	
7,300.00	7,294.92	20,864.62	12,689.56	21.18	121.67	-92.259	-271.30	958.22	5,471.98	5,383.91	88.07	62.129	
7,400.00	7,394.84	20,867.47	12,689.54	21.50	121.71	-92.081	-274.15	958.26	5,373.36	5,284.99	88.37	60.803	
7,500.00	7,494.75	20,877.00	12,689.46	21.82	121.85	-91.483	-283.68	958.39	5,274.79	5,186.06	88.73	59.448	
7,600.00	7,594.66	20,877.00	12,689.46	22.14	121.85	-91.483	-283.68	958.39	5,176.27	5,087.25	89.02	58.149	
7,700.00	7,694.57	20,877.00	12,689.46	22.46	121.85	-91.483	-283.68	958.39	5,077.80	4,988.49	89.31	56.855	
7,800.00	7,794.48	20,877.00	12,689.46	22.78	121.85	-91.483	-283.68	958.39	4,979.40	4,889.79	89.61	55.566	
7,900.00	7,894.39	20,877.00	12,689.46	23.10	121.85	-91.483	-283.68	958.39	4,881.06	4,791.14	89.92	54.283	
8,000.00	7,994.30	20,877.00	12,689.46	23.42	121.85	-91.483	-283.68	958.39	4,782.79	4,692.56	90.23	53.005	
8,100.00	8,094.21	20,877.00	12,689.46	23.75	121.85	-91.483	-283.68	958.39	4,684.59	4,594.04	90.55	51.733	
8,200.00	8,194.13	20,877.00	12,689.46	24.07	121.85	-91.483	-283.68	958.39	4,586.47	4,495.59	90.88	50.467	
8,300.00	8,294.04	20,877.00	12,689.46	24.39	121.85	-91.483	-283.68	958.39	4,488.44	4,397.22	91.21	49.207	
8,400.00	8,393.95	20,877.00	12,689.46	24.71	121.85	-91.483	-283.68	958.39	4,390.49	4,298.93	91.56	47.953	
8,500.00	8,493.86	20,877.00	12,689.46	25.03	121.85	-91.483	-283.68	958.39	4,292.64	4,200.73	91.91	46.705	
8,600.00	8,593.77	20,877.00	12,689.46	25.35	121.85	-91.483	-283.68	958.39	4,194.88	4,102.62	92.27	45.464	
8,700.00	8,693.68	20,877.00	12,689.46	25.67	121.85	-91.483	-283.68	958.39	4,097.24	4,004.60	92.64	44.229	
8,800.00	8,793.59	20,877.00	12,689.46	26.00	121.85	-91.483	-283.68	958.39	3,999.71	3,906.70	93.02	43.000	
8,900.00	8,893.50	20,877.00	12,689.46	26.32	121.85	-91.483	-283.68	958.39	3,902.31	3,808.91	93.41	41.777	
9,000.00	8,993.42	20,877.00	12,689.46	26.64	121.85	-91.483	-283.68	958.39	3,805.05	3,711.24	93.81	40.562	
9,100.00	9,093.33	20,901.35	12,689.32	26.96	122.19	-89.944	-308.02	958.76	3,707.77	3,613.35	94.43	39.266	
9,200.00	9,193.24	20,903.44	12,689.32	27.29	122.22	-89.811	-310.11	958.80	3,610.78	3,515.91	94.87	38.059	
9,300.00	9,293.15	20,905.58	12,689.31	27.61	122.25	-89.675	-312.25	958.84	3,513.95	3,418.62	95.33	36.859	
9,400.00	9,393.06	20,907.77	12,689.31	27.93	122.28	-89.536	-314.44	958.87	3,417.31	3,321.49	95.81	35.666	
9,500.00	9,492.97	20,910.02	12,689.31	28.25	122.32	-89.393	-316.69	958.91	3,320.85	3,224.55	96.31	34.481	
9,600.00	9,592.88	20,912.32	12,689.30	28.58	122.35	-89.246	-318.99	958.95	3,224.62	3,127.79	96.83	33.303	
9,700.00	9,692.79	20,914.68	12,689.30	28.90	122.38	-89.096	-321.35	958.99	3,128.61	3,031.25	97.36	32.133	
9,800.00	9,792.71	20,917.10	12,689.30	29.22	122.42	-88.941	-323.77	959.04	3,032.86	2,934.94	97.93	30.971	
9,900.00	9,892.62	20,919.58	12,689.31	29.55	122.45	-88.783	-326.25	959.08	2,937.39	2,838.88	98.51	29.817	
10,000.00	9,992.53	20,922.13	12,689.31	29.87	122.49	-88.620	-328.80	959.13	2,842.23	2,743.10	99.13	28.672	

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





## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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		Semi Major Axis		Highside Toolface (°)	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)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,100.00	10,092.44	20,924.74	12,689.31	30.19	122.52	-88.453	-331.41	959.18	2,747.41	2,647.63	99.78	27.535	
10,200.00	10,192.35	20,927.42	12,689.32	30.52	122.56	-88.281	-334.09	959.23	2,652.96	2,552.50	100.46	26.408	
10,300.00	10,292.26	20,930.18	12,689.33	30.84	122.60	-88.104	-336.85	959.29	2,558.93	2,457.74	101.19	25.290	
10,400.00	10,392.17	20,933.02	12,689.34	31.16	122.64	-87.923	-339.68	959.34	2,465.36	2,363.41	101.95	24.181	
10,500.00	10,492.08	20,935.93	12,689.35	31.49	122.68	-87.736	-342.60	959.40	2,372.32	2,269.55	102.77	23.084	
10,600.00	10,592.00	20,938.92	12,689.37	31.81	122.72	-87.544	-345.59	959.46	2,279.85	2,176.21	103.64	21.997	
10,700.00	10,691.91	20,942.00	12,689.39	32.13	122.77	-87.346	-348.67	959.52	2,188.05	2,083.47	104.58	20.922	
10,800.00	10,791.82	20,945.18	12,689.41	32.46	122.81	-87.142	-351.84	959.59	2,096.98	1,991.39	105.59	19.860	
10,900.00	10,891.73	20,948.44	12,689.43	32.78	122.86	-86.932	-355.11	959.66	2,006.76	1,900.09	106.68	18.811	
11,000.00	10,991.64	20,951.80	12,689.45	33.11	122.90	-86.715	-358.47	959.73	1,917.50	1,809.65	107.86	17.778	
11,100.00	11,091.55	20,955.27	12,689.48	33.43	122.95	-86.492	-361.93	959.80	1,829.35	1,720.21	109.14	16.762	
11,200.00	11,191.46	20,972.00	12,689.66	33.75	123.19	-85.411	-378.66	960.19	1,742.53	1,631.83	110.70	15.741	
11,300.00	11,291.37	20,972.00	12,689.66	34.08	123.19	-85.411	-378.66	960.19	1,657.08	1,544.89	112.18	14.771	
11,400.00	11,391.29	20,972.00	12,689.66	34.40	123.19	-85.411	-378.66	960.19	1,573.34	1,459.54	113.81	13.825	
11,500.00	11,491.20	20,972.00	12,689.66	34.73	123.19	-85.411	-378.66	960.19	1,491.61	1,376.03	115.58	12.905	
11,600.00	11,591.11	20,972.00	12,689.66	35.05	123.19	-85.411	-378.66	960.19	1,412.23	1,294.72	117.52	12.017	
11,700.00	11,691.02	20,979.26	12,689.76	35.38	123.29	-84.942	-385.92	960.36	1,335.61	1,215.87	119.74	11.154	
11,800.00	11,790.93	20,983.95	12,689.82	35.70	123.36	-84.638	-390.61	960.48	1,262.24	1,140.14	122.10	10.338	
11,900.00	11,890.84	20,988.69	12,689.88	36.03	123.43	-84.331	-395.34	960.60	1,192.72	1,068.09	124.63	9.570	
11,907.54	11,898.38	20,989.05	12,689.89	36.05	123.43	-84.308	-395.70	960.61	1,187.65	1,062.83	124.83	9.515	
12,000.00	11,990.80	20,992.19	12,689.93	36.33	123.47	-82.547	-398.84	960.69	1,127.90	1,000.62	127.28	8.862	
12,028.24	12,019.04	20,992.64	12,689.93	36.36	123.48	87.902	-399.29	960.70	1,110.60	982.57	128.03	8.675	
12,100.00	12,090.80	20,993.50	12,689.95	36.36	123.49	87.958	-400.15	960.72	1,068.79	938.85	129.93	8.226	
12,200.00	12,190.80	20,994.70	12,689.96	36.36	123.51	88.035	-401.35	960.75	1,016.11	883.54	132.56	7.665	
12,300.00	12,290.80	20,995.91	12,689.98	36.36	123.53	88.114	-402.56	960.79	970.90	835.85	135.04	7.190	
12,400.00	12,390.80	20,997.13	12,690.00	36.37	123.54	88.193	-403.78	960.82	934.24	797.01	137.23	6.808	
12,500.00	12,490.80	20,998.37	12,690.01	36.37	123.56	88.273	-405.02	960.85	907.17	768.18	138.99	6.527	
12,528.24	12,519.04	20,998.72	12,690.02	36.37	123.57	88.296	-405.37	960.86	901.39	762.01	139.38	6.467	
12,550.00	12,540.79	20,999.36	12,690.03	36.40	123.58	-91.504	-406.01	960.88	897.53	757.86	139.66	6.426	
12,600.00	12,590.61	21,003.62	12,690.09	36.63	123.64	-91.921	-410.26	960.99	890.68	750.39	140.28	6.349	
12,650.00	12,639.89	21,011.76	12,690.21	36.95	123.75	-91.804	-418.40	961.22	886.69	745.87	140.83	6.296	
12,696.46	12,684.85	21,022.77	12,690.37	37.26	123.91	-91.236	-429.40	961.55	885.51	744.25	141.26	6.269 CC	
12,700.00	12,688.24	21,023.74	12,690.39	37.29	123.92	-91.175	-430.37	961.58	885.52	744.22	141.29	6.267 ES	
12,750.00	12,735.30	21,039.50	12,690.63	37.62	124.14	-90.072	-446.13	962.07	887.01	745.31	141.69	6.260 SF	
12,800.00	12,780.72	21,058.94	12,690.96	37.96	124.42	-88.549	-465.55	962.73	890.91	748.87	142.04	6.272	
12,850.00	12,824.15	21,083.55	12,691.39	38.29	124.77	-86.585	-490.14	963.61	896.91	754.51	142.40	6.299	
12,900.00	12,865.26	21,112.70	12,691.90	38.60	125.18	-84.301	-519.26	964.65	904.54	761.78	142.77	6.336	
12,950.00	12,903.73	21,131.00	12,692.23	38.90	125.44	-82.503	-537.55	965.31	913.50	770.74	142.75	6.399	
13,000.00	12,939.27	21,131.00	12,692.23	39.18	125.44	-81.404	-537.55	965.31	924.33	782.20	142.13	6.503	
13,050.00	12,971.62	21,131.00	12,692.23	39.43	125.44	-80.101	-537.55	965.31	937.09	795.70	141.39	6.627	
13,100.00	13,000.52	21,131.00	12,692.23	39.65	125.44	-78.612	-537.55	965.31	951.59	811.03	140.56	6.770	
13,150.00	13,025.76	21,131.00	12,692.23	39.85	125.44	-76.954	-537.55	965.31	967.65	828.02	139.63	6.930	
13,200.00	13,047.14	21,131.00	12,692.23	40.02	125.44	-75.149	-537.55	965.31	985.08	846.46	138.62	7.106	
13,250.00	13,064.50	21,131.00	12,692.23	40.15	125.44	-73.223	-537.55	965.31	1,003.67	866.14	137.53	7.298	
13,300.00	13,077.71	21,131.00	12,692.23	40.26	125.44	-71.200	-537.55	965.31	1,023.22	886.84	136.38	7.503	
13,350.00	13,086.67	21,131.00	12,692.23	40.33	125.44	-69.108	-537.55	965.31	1,043.54	908.37	135.17	7.720	
13,400.00	13,091.30	21,131.00	12,692.23	40.38	125.44	-66.976	-537.55	965.31	1,064.43	930.53	133.91	7.949	
13,428.24	13,092.00	21,131.00	12,692.23	40.39	125.44	-65.764	-537.55	965.31	1,076.41	943.25	133.17	8.083	
13,500.00	13,092.00	21,131.00	12,692.23	40.40	125.44	-65.764	-537.55	965.31	1,108.88	977.69	131.20	8.452	
13,600.00	13,092.00	21,131.00	12,692.23	40.43	125.44	-65.764	-537.55	965.31	1,160.04	1,031.79	128.25	9.045	
13,700.00	13,092.00	21,131.00	12,692.23	40.46	125.44	-65.764	-537.55	965.31	1,217.27	1,092.11	125.16	9.726	
13,800.00	13,092.00	21,131.00	12,692.23	40.50	125.44	-65.764	-537.55	965.31	1,279.77	1,157.73	122.03	10.487	

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





## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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	
13,900.00	13,092.00	21,131.00	12,692.23	40.53	125.44	-65.764	-537.55	965.31	1,346.80	1,227.86	118.94	11.324		
14,000.00	13,092.00	21,131.00	12,692.23	40.58	125.44	-65.764	-537.55	965.31	1,417.72	1,301.79	115.93	12.229		
14,100.00	13,092.00	21,131.00	12,692.23	40.63	125.44	-65.764	-537.55	965.31	1,491.97	1,378.92	113.05	13.197		
14,200.00	13,092.00	21,131.00	12,692.23	40.69	125.44	-65.764	-537.55	965.31	1,569.09	1,458.77	110.32	14.223		
14,300.00	13,092.00	21,131.00	12,692.23	40.76	125.44	-65.764	-537.55	965.31	1,648.67	1,540.91	107.75	15.301		
14,400.00	13,092.00	21,131.00	12,692.23	40.85	125.44	-65.764	-537.55	965.31	1,730.36	1,625.02	105.35	16.425		
14,500.00	13,092.00	21,131.00	12,692.23	40.95	125.44	-65.764	-537.55	965.31	1,813.90	1,710.79	103.11	17.592		
14,600.00	13,092.00	21,131.00	12,692.23	41.10	125.44	-65.764	-537.55	965.31	1,899.02	1,797.99	101.02	18.798		
14,700.00	13,092.00	21,131.00	12,692.23	41.29	125.44	-65.764	-537.55	965.31	1,985.53	1,886.44	99.09	20.037		
14,800.00	13,092.00	21,131.00	12,692.23	41.57	125.44	-65.764	-537.55	965.31	2,073.26	1,975.96	97.30	21.308		
14,900.00	13,092.00	21,131.00	12,692.23	41.99	125.44	-65.764	-537.55	965.31	2,162.05	2,066.41	95.64	22.606		
15,000.00	13,092.00	21,131.00	12,692.23	42.60	125.44	-65.764	-537.55	965.31	2,251.78	2,157.68	94.10	23.929		
15,100.00	13,092.00	21,131.00	12,692.23	43.42	125.44	-65.764	-537.55	965.31	2,342.34	2,249.66	92.68	25.273		
15,200.00	13,092.00	21,131.00	12,692.23	44.43	125.44	-65.764	-537.55	965.31	2,433.65	2,342.28	91.36	26.638		
15,300.00	13,092.00	21,131.00	12,692.23	45.56	125.44	-65.764	-537.55	965.31	2,525.61	2,435.47	90.14	28.019		
15,400.00	13,092.00	21,131.00	12,692.23	46.76	125.44	-65.764	-537.55	965.31	2,618.16	2,529.15	89.01	29.415		
15,500.00	13,092.00	21,131.00	12,692.23	48.01	125.44	-65.764	-537.55	965.31	2,711.24	2,623.28	87.95	30.825		
15,600.00	13,092.00	21,131.00	12,692.23	49.30	125.44	-65.764	-537.55	965.31	2,804.79	2,717.81	86.98	32.247		
15,700.00	13,092.00	21,131.00	12,692.23	50.61	125.44	-65.764	-537.55	965.31	2,898.78	2,812.71	86.07	33.678		
15,800.00	13,092.00	21,131.00	12,692.23	51.93	125.44	-65.764	-537.55	965.31	2,993.16	2,907.93	85.23	35.119		
15,900.00	13,092.00	21,131.00	12,692.23	53.27	125.44	-65.764	-537.55	965.31	3,087.89	3,003.44	84.45	36.566		
16,000.00	13,092.00	21,131.00	12,692.23	54.61	125.44	-65.764	-537.55	965.31	3,182.94	3,099.22	83.72	38.020		
16,100.00	13,092.00	21,131.00	12,692.23	55.97	125.44	-65.764	-537.55	965.31	3,278.29	3,195.25	83.04	39.479		
16,200.00	13,092.00	21,131.00	12,692.23	57.33	125.44	-65.764	-537.55	965.31	3,373.90	3,291.50	82.41	40.942		
16,300.00	13,092.00	21,131.00	12,692.23	58.69	125.44	-65.764	-537.55	965.31	3,469.77	3,387.95	81.82	42.409		
16,400.00	13,092.00	21,131.00	12,692.23	60.06	125.44	-65.764	-537.55	965.31	3,565.86	3,484.59	81.27	43.878		
16,500.00	13,092.00	21,131.00	12,692.23	61.44	125.44	-65.764	-537.55	965.31	3,662.16	3,581.40	80.76	45.349		
16,600.00	13,092.00	21,131.00	12,692.23	62.81	125.44	-65.764	-537.55	965.31	3,758.65	3,678.37	80.28	46.821		
16,700.00	13,092.00	21,131.00	12,692.23	64.20	125.44	-65.764	-537.55	965.31	3,855.32	3,775.49	79.83	48.293		
16,800.00	13,092.00	21,131.00	12,692.23	65.58	125.44	-65.764	-537.55	965.31	3,952.16	3,872.75	79.42	49.766		
16,900.00	13,092.00	21,131.00	12,692.23	66.97	125.44	-65.764	-537.55	965.31	4,049.15	3,970.13	79.03	51.238		
17,000.00	13,092.00	21,131.00	12,692.23	68.36	125.44	-65.764	-537.55	965.31	4,146.29	4,067.62	78.66	52.709		
17,100.00	13,092.00	21,131.00	12,692.23	69.75	125.44	-65.764	-537.55	965.31	4,243.56	4,165.23	78.33	54.178		
17,200.00	13,092.00	21,131.00	12,692.23	71.14	125.44	-65.764	-537.55	965.31	4,340.95	4,262.94	78.01	55.646		
17,300.00	13,092.00	21,131.00	12,692.23	72.54	125.44	-65.764	-537.55	965.31	4,438.45	4,360.74	77.72	57.112		
17,400.00	13,092.00	21,131.00	12,692.23	73.94	125.44	-65.764	-537.55	965.31	4,536.07	4,458.63	77.44	58.575		
17,500.00	13,092.00	21,131.00	12,692.23	75.34	125.44	-65.764	-537.55	965.31	4,633.79	4,556.60	77.18	60.036		
17,600.00	13,092.00	21,131.00	12,692.23	76.74	125.44	-65.764	-537.55	965.31	4,731.60	4,654.66	76.95	61.493		
17,700.00	13,092.00	21,131.00	12,692.23	78.14	125.44	-65.764	-537.55	965.31	4,829.50	4,752.78	76.72	62.948		
17,800.00	13,092.00	21,131.00	12,692.23	79.55	125.44	-65.764	-537.55	965.31	4,927.49	4,850.98	76.52	64.399		
17,900.00	13,092.00	21,131.00	12,692.23	80.95	125.44	-65.764	-537.55	965.31	5,025.56	4,949.24	76.32	65.846		
18,000.00	13,092.00	21,131.00	12,692.23	82.36	125.44	-65.764	-537.55	965.31	5,123.70	5,047.55	76.14	67.289		
18,100.00	13,092.00	21,131.00	12,692.23	83.76	125.44	-65.764	-537.55	965.31	5,221.91	5,145.93	75.98	68.729		
18,200.00	13,092.00	21,131.00	12,692.23	85.17	125.44	-65.764	-537.55	965.31	5,320.19	5,244.36	75.82	70.164		
18,300.00	13,092.00	21,131.00	12,692.23	86.58	125.44	-65.764	-537.55	965.31	5,418.53	5,342.85	75.68	71.595		
18,400.00	13,092.00	21,131.00	12,692.23	87.99	125.44	-65.764	-537.55	965.31	5,516.93	5,441.38	75.55	73.022		
18,500.00	13,092.00	21,131.00	12,692.23	89.40	125.44	-65.764	-537.55	965.31	5,615.39	5,539.96	75.43	74.444		
18,600.00	13,092.00	21,131.00	12,692.23	90.81	125.44	-65.764	-537.55	965.31	5,713.90	5,638.58	75.32	75.861		
18,700.00	13,092.00	21,131.00	12,692.23	92.23	125.44	-65.764	-537.55	965.31	5,812.46	5,737.24	75.22	77.274		
18,800.00	13,092.00	21,131.00	12,692.23	93.64	125.44	-65.764	-537.55	965.31	5,911.07	5,835.95	75.13	78.682		
18,900.00	13,092.00	21,131.00	12,692.23	95.06	125.44	-65.764	-537.55	965.31	6,009.73	5,934.69	75.04	80.085		
19,000.00	13,092.00	21,131.00	12,692.23	96.47	125.44	-65.764	-537.55	965.31	6,108.43	6,033.46	74.97	81.483		

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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 <th colspan="2">Semi Major Axis</th> <th colspan="3">Offset Wellbore Centre</th> <th colspan="4">Rule Assigned:</th> <th>Offset Well Error:</th> <td>1.00 usft</td>		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	
19,100.00	13,092.00	21,131.00	12,692.23	97.89	125.44	-65.764	-537.55	965.31	6,207.17	6,132.27	74.90	82.876		
19,200.00	13,092.00	21,131.00	12,692.23	99.30	125.44	-65.764	-537.55	965.31	6,305.95	6,231.11	74.84	84.263		
19,300.00	13,092.00	21,131.00	12,692.23	100.72	125.44	-65.764	-537.55	965.31	6,404.77	6,329.99	74.78	85.646		
19,400.00	13,092.00	21,131.00	12,692.23	102.14	125.44	-65.764	-537.55	965.31	6,503.62	6,428.89	74.73	87.023		
19,500.00	13,092.00	21,131.00	12,692.23	103.55	125.44	-65.764	-537.55	965.31	6,602.51	6,527.82	74.69	88.395		
19,600.00	13,092.00	21,131.00	12,692.23	104.97	125.44	-65.764	-537.55	965.31	6,701.44	6,626.78	74.66	89.762		
19,700.00	13,092.00	21,131.00	12,692.23	106.39	125.44	-65.764	-537.55	965.31	6,800.39	6,725.76	74.63	91.123		
19,800.00	13,092.00	21,131.00	12,692.23	107.81	125.44	-65.764	-537.55	965.31	6,899.37	6,824.77	74.60	92.479		
19,900.00	13,092.00	21,131.00	12,692.23	109.23	125.44	-65.764	-537.55	965.31	6,998.39	6,923.80	74.59	93.829		
20,000.00	13,092.00	21,131.00	12,692.23	110.65	125.44	-65.764	-537.55	965.31	7,097.43	7,022.85	74.57	95.174		
20,100.00	13,092.00	21,131.00	12,692.23	112.07	125.44	-65.764	-537.55	965.31	7,196.50	7,121.93	74.56	96.513		
20,200.00	13,092.00	21,131.00	12,692.23	113.49	125.44	-65.764	-537.55	965.31	7,295.59	7,221.03	74.56	97.847		
20,300.00	13,092.00	21,131.00	12,692.23	114.91	125.44	-65.764	-537.55	965.31	7,394.70	7,320.14	74.56	99.175		
20,400.00	13,092.00	21,131.00	12,692.23	116.34	125.44	-65.764	-537.55	965.31	7,493.85	7,419.28	74.57	100.498		
20,500.00	13,092.00	21,131.00	12,692.23	117.76	125.44	-65.764	-537.55	965.31	7,593.01	7,518.43	74.58	101.815		
20,600.00	13,092.00	21,131.00	12,692.23	119.18	125.44	-65.764	-537.55	965.31	7,692.19	7,617.60	74.59	103.126		
20,700.00	13,092.00	21,131.00	12,692.23	120.60	125.44	-65.764	-537.55	965.31	7,791.40	7,716.79	74.61	104.432		
20,800.00	13,092.00	21,131.00	12,692.23	122.03	125.44	-65.764	-537.55	965.31	7,890.62	7,816.00	74.63	105.731		
20,900.00	13,092.00	21,131.00	12,692.23	123.45	125.44	-65.764	-537.55	965.31	7,989.87	7,915.22	74.65	107.026		
21,000.00	13,092.00	21,131.00	12,692.23	124.87	125.44	-65.764	-537.55	965.31	8,089.13	8,014.45	74.68	108.314		
21,100.00	13,092.00	21,131.00	12,692.23	126.30	125.44	-65.764	-537.55	965.31	8,188.41	8,113.70	74.71	109.597		
21,200.00	13,092.00	21,131.00	12,692.23	127.72	125.44	-65.764	-537.55	965.31	8,287.71	8,212.96	74.75	110.874		
21,300.00	13,092.00	21,131.00	12,692.23	129.15	125.44	-65.764	-537.55	965.31	8,387.03	8,312.24	74.79	112.146		
21,400.00	13,092.00	21,131.00	12,692.23	130.57	125.44	-65.764	-537.55	965.31	8,486.36	8,411.53	74.83	113.411		
21,500.00	13,092.00	21,131.00	12,692.23	132.00	125.44	-65.764	-537.55	965.31	8,585.71	8,510.84	74.87	114.671		
21,600.00	13,092.00	21,131.00	12,692.23	133.42	125.44	-65.764	-537.55	965.31	8,685.07	8,610.15	74.92	115.925		
21,700.00	13,092.00	21,131.00	12,692.23	134.85	125.44	-65.764	-537.55	965.31	8,784.45	8,709.48	74.97	117.174		
21,800.00	13,092.00	21,131.00	12,692.23	136.27	125.44	-65.764	-537.55	965.31	8,883.84	8,808.81	75.02	118.417		
21,900.00	13,092.00	21,131.00	12,692.23	137.70	125.44	-65.764	-537.55	965.31	8,983.24	8,908.16	75.08	119.653		
22,000.00	13,092.00	21,131.00	12,692.23	139.12	125.44	-65.764	-537.55	965.31	9,082.66	9,007.52	75.13	120.885		
22,100.00	13,092.00	21,131.00	12,692.23	140.55	125.44	-65.764	-537.55	965.31	9,182.09	9,106.89	75.20	122.110		
22,200.00	13,092.00	21,131.00	12,692.23	141.98	125.44	-65.764	-537.55	965.31	9,281.53	9,206.27	75.26	123.330		
22,300.00	13,092.00	21,131.00	12,692.23	143.40	125.44	-65.764	-537.55	965.31	9,380.98	9,305.66	75.32	124.544		
22,400.00	13,092.00	21,131.00	12,692.23	144.83	125.44	-65.764	-537.55	965.31	9,480.45	9,405.06	75.39	125.752		
22,500.00	13,092.00	21,131.00	12,692.23	146.26	125.44	-65.764	-537.55	965.31	9,579.93	9,504.47	75.46	126.954		
22,600.00	13,092.00	21,131.00	12,692.23	147.69	125.44	-65.764	-537.55	965.31	9,679.41	9,603.88	75.53	128.151		
22,700.00	13,092.00	21,131.00	12,692.23	149.11	125.44	-65.764	-537.55	965.31	9,778.91	9,703.31	75.60	129.342		
22,728.24	13,092.00	21,131.00	12,692.23	149.52	125.44	-65.764	-537.55	965.31	9,807.01	9,731.39	75.63	129.678		

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> Cattlemen Fed Com - Deep - Cattleman Fed Com 514H - OH / 67734 - Surveys (H&P 474)													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 174-MWD+HDGM+MS													<b>Offset Well Error:</b> 1.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
0.00	0.00	81.01	38.01	1.00	1.01	6.679	8,042.72	941.77	8,097.76				
100.00	100.00	207.00	163.97	1.08	1.07	6.697	8,041.44	944.24	8,096.94	8,094.78	2.16	3,756.057	
200.00	200.00	284.00	240.96	1.60	1.20	6.704	8,040.91	945.19	8,096.38	8,093.58	2.80	2,894.554	
300.00	300.00	356.59	313.55	2.01	1.36	6.707	8,040.71	945.49	8,096.12	8,092.75	3.37	2,403.300	
393.33	393.33	436.37	393.33	2.33	1.57	6.708	8,040.61	945.68	8,096.03	8,092.14	3.90	2,078.251	
400.00	400.00	441.75	398.71	2.35	1.58	6.708	8,040.61	945.70	8,096.03	8,092.10	3.93	2,058.129	
500.00	500.00	528.47	485.43	2.65	1.83	6.711	8,040.67	946.14	8,096.16	8,091.67	4.48	1,805.268	
600.00	600.00	630.05	587.00	2.93	2.14	6.715	8,040.79	946.68	8,096.33	8,091.27	5.06	1,598.804	
700.00	700.00	719.74	676.69	3.18	2.41	6.711	8,041.01	946.16	8,096.52	8,090.93	5.59	1,449.208	
800.00	800.00	799.63	756.57	3.41	2.65	6.703	8,041.47	945.14	8,096.94	8,090.87	6.07	1,334.558	
900.00	900.00	896.48	853.41	3.64	2.96	6.693	8,042.22	943.77	8,097.54	8,090.95	6.60	1,227.569	
1,000.00	1,000.00	1,025.22	982.14	3.85	3.38	6.681	8,042.96	942.06	8,097.96	8,090.73	7.23	1,120.396	
1,100.00	1,100.00	1,119.36	1,076.27	4.05	3.70	6.671	8,043.32	940.78	8,098.19	8,090.44	7.74	1,045.882	
1,200.00	1,200.00	1,228.15	1,185.05	4.24	4.06	6.662	8,043.75	939.57	8,098.45	8,090.15	8.30	975.282	
1,300.00	1,300.00	1,332.84	1,289.74	4.43	4.42	6.658	8,043.98	938.96	8,098.60	8,089.75	8.85	915.360	
1,400.00	1,400.00	1,454.87	1,411.77	4.61	4.84	6.655	8,044.12	938.53	8,098.70	8,089.25	9.45	857.371	
1,500.00	1,500.00	1,613.43	1,570.23	4.78	5.38	6.690	8,042.67	943.37	8,098.11	8,087.95	10.16	797.092	
1,525.03	1,525.03	1,636.00	1,592.78	4.83	5.46	-163.289	8,042.35	944.45	8,098.01	8,087.72	10.28	787.459	
1,600.00	1,599.98	1,716.35	1,673.02	4.98	5.73	-163.259	8,041.20	948.39	8,098.93	8,088.23	10.70	757.200	
1,620.70	1,620.67	1,740.15	1,696.79	4.99	5.81	-163.249	8,040.83	949.58	8,099.50	8,088.71	10.79	750.702	
1,700.00	1,699.89	1,817.29	1,773.81	5.07	6.08	-163.227	8,039.61	953.54	8,101.93	8,090.80	11.14	727.325	
1,800.00	1,799.81	1,899.63	1,856.03	5.23	6.36	-163.202	8,038.44	957.92	8,105.17	8,093.59	11.58	699.990	
1,900.00	1,899.72	1,987.50	1,943.76	5.41	6.67	-163.174	8,037.32	962.77	8,108.59	8,096.53	12.06	672.368	
2,000.00	1,999.63	2,081.48	2,037.58	5.60	7.00	-163.144	8,036.20	968.12	8,112.11	8,099.54	12.58	645.072	
2,100.00	2,099.54	2,170.01	2,125.95	5.80	7.31	-163.114	8,035.21	973.35	8,115.75	8,102.66	13.08	620.254	
2,200.00	2,199.45	2,254.00	2,209.78	6.02	7.61	-163.085	8,034.41	978.50	8,119.55	8,105.96	13.59	597.529	
2,300.00	2,299.36	2,340.11	2,295.71	6.24	7.91	-163.054	8,033.72	983.93	8,123.54	8,109.43	14.11	575.731	
2,400.00	2,399.27	2,417.65	2,373.09	6.47	8.19	-163.024	8,033.24	989.01	8,127.75	8,113.14	14.61	556.324	
2,500.00	2,499.18	2,497.64	2,452.88	6.72	8.48	-162.993	8,032.93	994.49	8,132.23	8,117.11	15.13	537.631	
2,600.00	2,599.10	2,583.27	2,538.30	6.96	8.78	-162.958	8,032.77	1,000.50	8,136.93	8,121.26	15.67	519.280	
2,700.00	2,699.01	2,664.87	2,619.69	7.22	9.07	-162.924	8,032.74	1,006.29	8,141.79	8,125.59	16.21	502.419	
2,800.00	2,798.92	2,915.01	2,869.32	7.48	9.97	-162.834	8,031.38	1,022.12	8,146.34	8,128.98	17.35	469.451	
2,900.00	2,898.83	2,998.67	2,952.83	7.74	10.27	-162.807	8,030.12	1,026.96	8,149.59	8,131.68	17.91	455.105	
3,000.00	2,998.74	3,076.37	3,030.37	8.01	10.55	-162.779	8,029.09	1,031.84	8,153.08	8,134.64	18.44	442.031	
3,100.00	3,098.65	3,140.97	3,094.84	8.28	10.79	-162.755	8,028.42	1,035.95	8,156.90	8,137.97	18.94	430.705	
3,200.00	3,198.56	3,202.00	3,155.75	8.56	11.01	-162.735	8,028.17	1,039.59	8,161.24	8,141.82	19.42	420.193	
3,300.00	3,298.47	3,266.48	3,220.12	8.84	11.24	-162.714	8,028.20	1,043.38	8,166.04	8,146.12	19.92	409.901	
3,400.00	3,398.39	3,340.18	3,293.68	9.13	11.50	-162.689	8,028.46	1,047.95	8,171.19	8,150.73	20.46	399.419	
3,500.00	3,498.30	3,415.28	3,368.62	9.41	11.77	-162.662	8,028.91	1,052.83	8,176.64	8,155.64	21.00	389.340	
3,600.00	3,598.21	3,486.00	3,439.17	9.70	12.03	-162.634	8,029.53	1,057.76	8,182.41	8,160.88	21.53	380.024	
3,700.00	3,698.12	3,551.28	3,504.27	9.99	12.27	-162.608	8,030.32	1,062.53	8,188.58	8,166.53	22.04	371.473	
3,800.00	3,798.03	3,617.40	3,570.20	10.29	12.51	-162.580	8,031.40	1,067.48	8,195.17	8,172.61	22.56	363.253	
3,900.00	3,897.94	3,700.99	3,653.52	10.58	12.81	-162.545	8,033.08	1,073.80	8,202.15	8,179.00	23.14	354.400	
4,000.00	3,997.85	3,830.03	3,782.26	10.88	13.28	-162.499	8,035.50	1,082.39	8,208.86	8,184.97	23.90	343.514	
4,100.00	4,097.76	3,930.08	3,882.08	11.18	13.64	-162.464	8,037.28	1,088.97	8,215.50	8,190.96	24.54	334.726	
4,200.00	4,197.68	4,032.86	3,984.59	11.48	14.01	-162.425	8,039.04	1,096.11	8,222.13	8,196.93	25.20	326.231	
4,300.00	4,297.59	4,181.98	4,133.31	11.78	14.56	-162.366	8,041.07	1,106.81	8,228.45	8,202.41	26.04	316.027	
4,400.00	4,397.50	4,291.14	4,242.20	12.08	14.95	-162.325	8,042.16	1,114.37	8,234.36	8,207.64	26.72	308.129	
4,500.00	4,497.41	4,397.72	4,348.53	12.39	15.34	-162.284	8,043.18	1,121.71	8,240.25	8,212.85	27.40	300.718	
4,600.00	4,597.32	4,489.08	4,439.67	12.69	15.68	-162.250	8,044.00	1,127.96	8,246.07	8,218.05	28.02	294.243	
4,700.00	4,697.23	4,566.28	4,516.68	13.00	15.96	-162.221	8,044.87	1,133.24	8,252.12	8,223.53	28.60	288.578	
4,800.00	4,797.14	4,981.88	4,931.31	13.31	17.47	-162.068	8,044.10	1,160.84	8,258.24	8,227.83	30.41	271.561	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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					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	
4,900.00	4,897.05	5,095.00	5,044.15	13.62	17.89	-162.025	8,041.05	1,168.18	8,260.45	8,229.34	31.11	265.485		
5,000.00	4,996.97	21,341.00	13,038.03	13.92	121.71	-78.213	-518.71	1,439.65	8,173.18	8,092.03	81.15	100.715		
5,100.00	5,096.88	21,341.00	13,038.03	14.23	121.71	-78.213	-518.71	1,439.65	8,074.58	7,993.22	81.36	99.248		
5,200.00	5,196.79	21,341.00	13,038.03	14.55	121.71	-78.213	-518.71	1,439.65	7,976.02	7,894.45	81.57	97.784		
5,300.00	5,296.70	21,341.00	13,038.03	14.86	121.71	-78.213	-518.71	1,439.65	7,877.49	7,795.71	81.78	96.323		
5,400.00	5,396.61	21,341.00	13,038.03	15.17	121.71	-78.213	-518.71	1,439.65	7,779.00	7,697.00	82.00	94.865		
5,500.00	5,496.52	21,341.00	13,038.03	15.48	121.71	-78.213	-518.71	1,439.65	7,680.56	7,598.33	82.22	93.411		
5,600.00	5,596.43	21,341.00	13,038.03	15.79	121.71	-78.213	-518.71	1,439.65	7,582.15	7,499.70	82.45	91.961		
5,700.00	5,696.34	21,341.00	13,038.03	16.11	121.71	-78.213	-518.71	1,439.65	7,483.78	7,401.10	82.68	90.514		
5,800.00	5,796.26	21,341.00	13,038.03	16.42	121.71	-78.213	-518.71	1,439.65	7,385.46	7,302.54	82.92	89.071		
5,900.00	5,896.17	21,341.00	13,038.03	16.74	121.71	-78.213	-518.71	1,439.65	7,287.18	7,204.03	83.16	87.632		
6,000.00	5,996.08	21,341.00	13,038.03	17.05	121.71	-78.213	-518.71	1,439.65	7,188.95	7,105.55	83.40	86.197		
6,100.00	6,095.99	21,341.00	13,038.03	17.37	121.71	-78.213	-518.71	1,439.65	7,090.77	7,007.12	83.65	84.766		
6,200.00	6,195.90	21,341.00	13,038.03	17.68	121.71	-78.213	-518.71	1,439.65	6,992.65	6,908.74	83.91	83.339		
6,300.00	6,295.81	21,341.00	13,038.03	18.00	121.71	-78.213	-518.71	1,439.65	6,894.57	6,810.41	84.17	81.917		
6,400.00	6,395.72	21,341.00	13,038.03	18.32	121.71	-78.213	-518.71	1,439.65	6,796.55	6,712.12	84.43	80.499		
6,500.00	6,495.63	21,341.00	13,038.03	18.63	121.71	-78.213	-518.71	1,439.65	6,698.59	6,613.89	84.70	79.085		
6,600.00	6,595.55	21,341.00	13,038.03	18.95	121.71	-78.213	-518.71	1,439.65	6,600.70	6,515.72	84.98	77.677		
6,700.00	6,695.46	21,341.00	13,038.03	19.27	121.71	-78.213	-518.71	1,439.65	6,502.86	6,417.60	85.26	76.273		
6,800.00	6,795.37	21,341.00	13,038.03	19.59	121.71	-78.213	-518.71	1,439.65	6,405.09	6,319.55	85.54	74.874		
6,900.00	6,895.28	21,341.00	13,038.03	19.91	121.71	-78.213	-518.71	1,439.65	6,307.40	6,221.56	85.84	73.480		
7,000.00	6,995.19	21,341.00	13,038.03	20.23	121.71	-78.213	-518.71	1,439.65	6,209.77	6,123.64	86.14	72.092		
7,100.00	7,095.10	21,341.00	13,038.03	20.54	121.71	-78.213	-518.71	1,439.65	6,112.23	6,025.78	86.44	70.708		
7,200.00	7,195.01	21,341.00	13,038.03	20.86	121.71	-78.213	-518.71	1,439.65	6,014.76	5,928.00	86.76	69.330		
7,300.00	7,294.92	21,341.00	13,038.03	21.18	121.71	-78.213	-518.71	1,439.65	5,917.38	5,830.30	87.07	67.958		
7,400.00	7,394.84	21,341.00	13,038.03	21.50	121.71	-78.213	-518.71	1,439.65	5,820.08	5,732.68	87.40	66.591		
7,500.00	7,494.75	21,341.00	13,038.03	21.82	121.71	-78.213	-518.71	1,439.65	5,722.88	5,635.15	87.73	65.230		
7,600.00	7,594.66	21,341.00	13,038.03	22.14	121.71	-78.213	-518.71	1,439.65	5,625.78	5,537.71	88.08	63.874		
7,700.00	7,694.57	21,341.00	13,038.03	22.46	121.71	-78.213	-518.71	1,439.65	5,528.78	5,440.36	88.43	62.525		
7,800.00	7,794.48	21,341.00	13,038.03	22.78	121.71	-78.213	-518.71	1,439.65	5,431.89	5,343.11	88.78	61.182		
7,900.00	7,894.39	21,341.00	13,038.03	23.10	121.71	-78.213	-518.71	1,439.65	5,335.12	5,245.97	89.15	59.844		
8,000.00	7,994.30	21,341.00	13,038.03	23.42	121.71	-78.213	-518.71	1,439.65	5,238.46	5,148.94	89.53	58.513		
8,100.00	8,094.21	21,341.00	13,038.03	23.75	121.71	-78.213	-518.71	1,439.65	5,141.94	5,052.03	89.91	57.189		
8,200.00	8,194.13	21,341.00	13,038.03	24.07	121.71	-78.213	-518.71	1,439.65	5,045.55	4,955.24	90.31	55.871		
8,300.00	8,294.04	21,341.00	13,038.03	24.39	121.71	-78.213	-518.71	1,439.65	4,949.30	4,858.59	90.71	54.560		
8,400.00	8,393.95	21,341.00	13,038.03	24.71	121.71	-78.213	-518.71	1,439.65	4,853.21	4,762.08	91.13	53.256		
8,500.00	8,493.86	21,341.00	13,038.03	25.03	121.71	-78.213	-518.71	1,439.65	4,757.27	4,665.71	91.56	51.958		
8,600.00	8,593.77	21,341.00	13,038.03	25.35	121.71	-78.213	-518.71	1,439.65	4,661.51	4,569.51	92.00	50.668		
8,700.00	8,693.68	21,341.00	13,038.03	25.67	121.71	-78.213	-518.71	1,439.65	4,565.93	4,473.47	92.46	49.385		
8,800.00	8,793.59	21,341.00	13,038.03	26.00	121.71	-78.213	-518.71	1,439.65	4,470.54	4,377.61	92.92	48.109		
8,900.00	8,893.50	21,341.00	13,038.03	26.32	121.71	-78.213	-518.71	1,439.65	4,375.35	4,281.95	93.41	46.841		
9,000.00	8,993.42	21,341.00	13,038.03	26.64	121.71	-78.213	-518.71	1,439.65	4,280.39	4,186.48	93.91	45.581		
9,100.00	9,093.33	21,341.00	13,038.03	26.96	121.71	-78.213	-518.71	1,439.65	4,185.66	4,091.24	94.42	44.329		
9,200.00	9,193.24	21,341.00	13,038.03	27.29	121.71	-78.213	-518.71	1,439.65	4,091.18	3,996.23	94.96	43.084		
9,300.00	9,293.15	21,341.00	13,038.03	27.61	121.71	-78.213	-518.71	1,439.65	3,996.98	3,901.47	95.51	41.849		
9,400.00	9,393.06	21,341.00	13,038.03	27.93	121.71	-78.213	-518.71	1,439.65	3,903.05	3,806.97	96.08	40.622		
9,500.00	9,492.97	21,341.00	13,038.03	28.25	121.71	-78.213	-518.71	1,439.65	3,809.44	3,712.77	96.68	39.403		
9,600.00	9,592.88	21,341.00	13,038.03	28.58	121.71	-78.213	-518.71	1,439.65	3,716.16	3,618.87	97.30	38.194		
9,700.00	9,692.79	21,341.00	13,038.03	28.90	121.71	-78.213	-518.71	1,439.65	3,623.24	3,525.31	97.94	36.995		
9,800.00	9,792.71	21,341.00	13,038.03	29.22	121.71	-78.213	-518.71	1,439.65	3,530.71	3,432.10	98.61	35.805		
9,900.00	9,892.62	21,341.00	13,038.03	29.55	121.71	-78.213	-518.71	1,439.65	3,438.60	3,339.29	99.31	34.626		
10,000.00	9,992.53	21,341.00	13,038.03	29.87	121.71	-78.213	-518.71	1,439.65	3,346.93	3,246.90	100.04	33.457		

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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					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	
10,100.00	10,092.44	21,341.00	13,038.03	30.19	121.71	-78.213	-518.71	1,439.65	3,255.76	3,154.96	100.80	32.299		
10,200.00	10,192.35	21,341.00	13,038.03	30.52	121.71	-78.213	-518.71	1,439.65	3,165.13	3,063.53	101.60	31.153		
10,300.00	10,292.26	21,341.00	13,038.03	30.84	121.71	-78.213	-518.71	1,439.65	3,075.07	2,972.63	102.44	30.019		
10,400.00	10,392.17	21,341.00	13,038.03	31.16	121.71	-78.213	-518.71	1,439.65	2,985.64	2,882.33	103.32	28.898		
10,500.00	10,492.08	21,341.00	13,038.03	31.49	121.71	-78.213	-518.71	1,439.65	2,896.91	2,792.67	104.24	27.791		
10,600.00	10,592.00	21,341.00	13,038.03	31.81	121.71	-78.213	-518.71	1,439.65	2,808.93	2,703.72	105.21	26.698		
10,700.00	10,691.91	21,341.00	13,038.03	32.13	121.71	-78.213	-518.71	1,439.65	2,721.79	2,615.55	106.24	25.620		
10,800.00	10,791.82	21,341.00	13,038.03	32.46	121.71	-78.213	-518.71	1,439.65	2,635.56	2,528.24	107.32	24.559		
10,900.00	10,891.73	21,341.00	13,038.03	32.78	121.71	-78.213	-518.71	1,439.65	2,550.33	2,441.87	108.46	23.515		
11,000.00	10,991.64	21,341.00	13,038.03	33.11	121.71	-78.213	-518.71	1,439.65	2,466.21	2,356.55	109.66	22.490		
11,100.00	11,091.55	21,341.00	13,038.03	33.43	121.71	-78.213	-518.71	1,439.65	2,383.32	2,272.39	110.93	21.485		
11,200.00	11,191.46	21,341.00	13,038.03	33.75	121.71	-78.213	-518.71	1,439.65	2,301.79	2,189.52	112.27	20.503		
11,300.00	11,291.37	21,341.00	13,038.03	34.08	121.71	-78.213	-518.71	1,439.65	2,221.77	2,108.09	113.68	19.544		
11,400.00	11,391.29	21,341.00	13,038.03	34.40	121.71	-78.213	-518.71	1,439.65	2,143.43	2,028.26	115.17	18.611		
11,500.00	11,491.20	21,341.00	13,038.03	34.73	121.71	-78.213	-518.71	1,439.65	2,066.96	1,950.22	116.74	17.706		
11,600.00	11,591.11	21,341.00	13,038.03	35.05	121.71	-78.213	-518.71	1,439.65	1,992.57	1,874.19	118.38	16.832		
11,700.00	11,691.02	21,341.00	13,038.03	35.38	121.71	-78.213	-518.71	1,439.65	1,920.51	1,800.41	120.10	15.991		
11,800.00	11,790.93	21,341.00	13,038.03	35.70	121.71	-78.213	-518.71	1,439.65	1,851.05	1,729.17	121.88	15.187		
11,900.00	11,890.84	21,341.00	13,038.03	36.03	121.71	-78.213	-518.71	1,439.65	1,784.49	1,660.76	123.73	14.423		
11,907.54	11,898.38	21,341.00	13,038.03	36.05	121.71	-78.213	-518.71	1,439.65	1,779.60	1,655.73	123.87	14.367		
12,000.00	11,990.80	21,341.00	13,038.03	36.33	121.71	-76.751	-518.71	1,439.65	1,721.42	1,595.81	125.61	13.704		
12,028.24	12,019.04	21,341.00	13,038.03	36.36	121.71	93.652	-518.71	1,439.65	1,704.36	1,578.22	126.14	13.512		
12,100.00	12,090.80	21,341.00	13,038.03	36.36	121.71	93.652	-518.71	1,439.65	1,662.46	1,534.99	127.46	13.043		
12,200.00	12,190.80	21,341.00	13,038.03	36.36	121.71	93.652	-518.71	1,439.65	1,607.58	1,478.28	129.30	12.433		
12,300.00	12,290.80	21,341.00	13,038.03	36.36	121.71	93.652	-518.71	1,439.65	1,557.20	1,426.11	131.09	11.879		
12,400.00	12,390.80	21,341.00	13,038.03	36.37	121.71	93.652	-518.71	1,439.65	1,511.76	1,378.96	132.80	11.384		
12,500.00	12,490.80	21,341.00	13,038.03	36.37	121.71	93.652	-518.71	1,439.65	1,471.72	1,337.35	134.38	10.952		
12,528.24	12,519.04	21,341.00	13,038.03	36.37	121.71	93.652	-518.71	1,439.65	1,461.46	1,326.67	134.79	10.842		
12,550.00	12,540.79	21,340.48	13,038.08	36.40	121.71	-86.629	-518.20	1,439.67	1,453.85	1,318.75	135.10	10.761		
12,600.00	12,590.61	21,339.82	13,038.14	36.63	121.70	-88.409	-517.54	1,439.69	1,437.29	1,301.49	135.81	10.583		
12,650.00	12,639.89	21,341.00	13,038.03	36.95	121.71	-89.944	-518.71	1,439.65	1,422.19	1,285.69	136.50	10.419		
12,700.00	12,688.24	21,341.00	13,038.03	37.29	121.71	-91.346	-518.71	1,439.65	1,408.69	1,271.56	137.12	10.273		
12,750.00	12,735.30	21,341.00	13,038.03	37.62	121.71	-92.554	-518.71	1,439.65	1,396.95	1,259.25	137.69	10.145		
12,800.00	12,780.72	21,341.00	13,038.03	37.96	121.71	-93.557	-518.71	1,439.65	1,387.10	1,248.90	138.20	10.037		
12,850.00	12,824.15	21,341.00	13,038.03	38.29	121.71	-94.348	-518.71	1,439.65	1,379.27	1,240.61	138.65	9.948		
12,900.00	12,865.26	21,341.00	13,038.03	38.60	121.71	-94.924	-518.71	1,439.65	1,373.54	1,234.49	139.04	9.879		
12,950.00	12,903.73	21,341.00	13,038.03	38.90	121.71	-95.279	-518.71	1,439.65	1,369.98	1,230.61	139.37	9.830		
13,000.00	12,939.27	21,341.00	13,038.03	39.18	121.71	-95.412	-518.71	1,439.65	1,368.64	1,228.99	139.65	9.801		
13,004.90	12,942.59	21,341.00	13,038.03	39.20	121.71	-95.413	-518.71	1,439.65	1,368.63	1,228.96	139.67	9.799 CC, ES		
13,050.00	12,971.62	21,341.00	13,038.03	39.43	121.71	-95.322	-518.71	1,439.65	1,369.54	1,229.67	139.87	9.791 SF		
13,100.00	13,000.52	21,341.00	13,038.03	39.65	121.71	-95.011	-518.71	1,439.65	1,372.67	1,232.61	140.05	9.801		
13,150.00	13,025.76	21,341.00	13,038.03	39.85	121.71	-94.478	-518.71	1,439.65	1,377.97	1,237.79	140.19	9.830		
13,200.00	13,047.14	21,341.00	13,038.03	40.02	121.71	-93.729	-518.71	1,439.65	1,385.40	1,245.14	140.27	9.877		
13,250.00	13,064.50	21,341.00	13,038.03	40.15	121.71	-92.767	-518.71	1,439.65	1,394.87	1,254.56	140.30	9.942		
13,300.00	13,077.71	21,341.00	13,038.03	40.26	121.71	-91.599	-518.71	1,439.65	1,406.24	1,265.96	140.29	10.024		
13,350.00	13,086.67	21,341.00	13,038.03	40.33	121.71	-90.234	-518.71	1,439.65	1,419.41	1,279.20	140.21	10.123		
13,400.00	13,091.30	21,341.00	13,038.03	40.38	121.71	-88.684	-518.71	1,439.65	1,434.22	1,294.14	140.08	10.239		
13,428.24	13,092.00	21,341.00	13,038.03	40.39	121.71	-87.732	-518.71	1,439.65	1,443.24	1,303.27	139.97	10.311		
13,500.00	13,092.00	21,341.00	13,038.03	40.40	121.71	-87.732	-518.71	1,439.65	1,468.32	1,328.68	139.63	10.516		
13,600.00	13,092.00	21,341.00	13,038.03	40.43	121.71	-87.732	-518.71	1,439.65	1,508.27	1,369.29	138.97	10.853		
13,700.00	13,092.00	21,341.00	13,038.03	40.46	121.71	-87.732	-518.71	1,439.65	1,553.63	1,415.53	138.10	11.250		
13,800.00	13,092.00	21,341.00	13,038.03	40.50	121.71	-87.732	-518.71	1,439.65	1,603.96	1,466.91	137.06	11.703		

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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					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	13,092.00	21,341.00	13,038.03	40.53	121.71	-87.732	-518.71	1,439.65	1,658.80	1,522.93	135.87	12.209		
14,000.00	13,092.00	21,341.00	13,038.03	40.58	121.71	-87.732	-518.71	1,439.65	1,717.71	1,583.14	134.57	12.764		
14,100.00	13,092.00	21,341.00	13,038.03	40.63	121.71	-87.732	-518.71	1,439.65	1,780.29	1,647.08	133.21	13.365		
14,200.00	13,092.00	21,341.00	13,038.03	40.69	121.71	-87.732	-518.71	1,439.65	1,846.17	1,714.37	131.80	14.007		
14,300.00	13,092.00	21,341.00	13,038.03	40.76	121.71	-87.732	-518.71	1,439.65	1,915.01	1,784.63	130.38	14.687		
14,400.00	13,092.00	21,341.00	13,038.03	40.85	121.71	-87.732	-518.71	1,439.65	1,986.50	1,857.53	128.97	15.403		
14,500.00	13,092.00	21,341.00	13,038.03	40.95	121.71	-87.732	-518.71	1,439.65	2,060.36	1,932.78	127.58	16.149		
14,600.00	13,092.00	21,341.00	13,038.03	41.10	121.71	-87.732	-518.71	1,439.65	2,136.35	2,010.12	126.23	16.924		
14,700.00	13,092.00	21,341.00	13,038.03	41.29	121.71	-87.732	-518.71	1,439.65	2,214.25	2,089.33	124.92	17.725		
14,800.00	13,092.00	21,341.00	13,038.03	41.57	121.71	-87.732	-518.71	1,439.65	2,293.87	2,170.21	123.66	18.550		
14,900.00	13,092.00	21,341.00	13,038.03	41.99	121.71	-87.732	-518.71	1,439.65	2,375.03	2,252.57	122.46	19.395		
15,000.00	13,092.00	21,341.00	13,038.03	42.60	121.71	-87.732	-518.71	1,439.65	2,457.57	2,336.27	121.31	20.259		
15,100.00	13,092.00	21,341.00	13,038.03	43.42	121.71	-87.732	-518.71	1,439.65	2,541.37	2,421.16	120.21	21.141		
15,200.00	13,092.00	21,341.00	13,038.03	44.43	121.71	-87.732	-518.71	1,439.65	2,626.31	2,507.13	119.17	22.037		
15,300.00	13,092.00	21,341.00	13,038.03	45.56	121.71	-87.732	-518.71	1,439.65	2,712.27	2,594.08	118.19	22.948		
15,400.00	13,092.00	21,341.00	13,038.03	46.76	121.71	-87.732	-518.71	1,439.65	2,799.16	2,681.90	117.26	23.870		
15,500.00	13,092.00	21,341.00	13,038.03	48.01	121.71	-87.732	-518.71	1,439.65	2,886.91	2,770.52	116.39	24.804		
15,600.00	13,092.00	21,341.00	13,038.03	49.30	121.71	-87.732	-518.71	1,439.65	2,975.42	2,859.86	115.56	25.748		
15,700.00	13,092.00	21,341.00	13,038.03	50.61	121.71	-87.732	-518.71	1,439.65	3,064.65	2,949.86	114.78	26.700		
15,800.00	13,092.00	21,341.00	13,038.03	51.93	121.71	-87.732	-518.71	1,439.65	3,154.52	3,040.47	114.05	27.660		
15,900.00	13,092.00	21,341.00	13,038.03	53.27	121.71	-87.732	-518.71	1,439.65	3,244.98	3,131.62	113.36	28.626		
16,000.00	13,092.00	21,341.00	13,038.03	54.61	121.71	-87.732	-518.71	1,439.65	3,335.98	3,223.28	112.70	29.599		
16,100.00	13,092.00	21,341.00	13,038.03	55.97	121.71	-87.732	-518.71	1,439.65	3,427.49	3,315.40	112.09	30.578		
16,200.00	13,092.00	21,341.00	13,038.03	57.33	121.71	-87.732	-518.71	1,439.65	3,519.46	3,407.95	111.51	31.560		
16,300.00	13,092.00	21,341.00	13,038.03	58.69	121.71	-87.732	-518.71	1,439.65	3,611.86	3,500.89	110.97	32.547		
16,400.00	13,092.00	21,341.00	13,038.03	60.06	121.71	-87.732	-518.71	1,439.65	3,704.65	3,594.19	110.46	33.538		
16,500.00	13,092.00	21,341.00	13,038.03	61.44	121.71	-87.732	-518.71	1,439.65	3,797.81	3,687.83	109.98	34.532		
16,600.00	13,092.00	21,341.00	13,038.03	62.81	121.71	-87.732	-518.71	1,439.65	3,891.31	3,781.78	109.53	35.528		
16,700.00	13,092.00	21,341.00	13,038.03	64.20	121.71	-87.732	-518.71	1,439.65	3,985.12	3,876.02	109.10	36.527		
16,800.00	13,092.00	21,341.00	13,038.03	65.58	121.71	-87.732	-518.71	1,439.65	4,079.23	3,970.53	108.70	37.527		
16,900.00	13,092.00	21,341.00	13,038.03	66.97	121.71	-87.732	-518.71	1,439.65	4,173.61	4,065.29	108.32	38.529		
17,000.00	13,092.00	21,341.00	13,038.03	68.36	121.71	-87.732	-518.71	1,439.65	4,268.25	4,160.28	107.97	39.532		
17,100.00	13,092.00	21,341.00	13,038.03	69.75	121.71	-87.732	-518.71	1,439.65	4,363.12	4,255.49	107.64	40.536		
17,200.00	13,092.00	21,341.00	13,038.03	71.14	121.71	-87.732	-518.71	1,439.65	4,458.22	4,350.90	107.32	41.540		
17,300.00	13,092.00	21,341.00	13,038.03	72.54	121.71	-87.732	-518.71	1,439.65	4,553.53	4,446.51	107.03	42.546		
17,400.00	13,092.00	21,341.00	13,038.03	73.94	121.71	-87.732	-518.71	1,439.65	4,649.04	4,542.29	106.75	43.551		
17,500.00	13,092.00	21,341.00	13,038.03	75.34	121.71	-87.732	-518.71	1,439.65	4,744.73	4,638.24	106.49	44.556		
17,600.00	13,092.00	21,341.00	13,038.03	76.74	121.71	-87.732	-518.71	1,439.65	4,840.60	4,734.36	106.24	45.561		
17,700.00	13,092.00	21,341.00	13,038.03	78.14	121.71	-87.732	-518.71	1,439.65	4,936.63	4,830.62	106.01	46.566		
17,800.00	13,092.00	21,341.00	13,038.03	79.55	121.71	-87.732	-518.71	1,439.65	5,032.82	4,927.02	105.80	47.570		
17,900.00	13,092.00	21,341.00	13,038.03	80.95	121.71	-87.732	-518.71	1,439.65	5,129.15	5,023.55	105.60	48.573		
18,000.00	13,092.00	21,341.00	13,038.03	82.36	121.71	-87.732	-518.71	1,439.65	5,225.62	5,120.21	105.41	49.576		
18,100.00	13,092.00	21,341.00	13,038.03	83.76	121.71	-87.732	-518.71	1,439.65	5,322.22	5,216.99	105.23	50.578		
18,200.00	13,092.00	21,341.00	13,038.03	85.17	121.71	-87.732	-518.71	1,439.65	5,418.94	5,313.88	105.06	51.579		
18,300.00	13,092.00	21,341.00	13,038.03	86.58	121.71	-87.732	-518.71	1,439.65	5,515.78	5,410.87	104.91	52.578		
18,400.00	13,092.00	21,341.00	13,038.03	87.99	121.71	-87.732	-518.71	1,439.65	5,612.73	5,507.97	104.76	53.577		
18,500.00	13,092.00	21,341.00	13,038.03	89.40	121.71	-87.732	-518.71	1,439.65	5,709.78	5,605.16	104.62	54.574		
18,600.00	13,092.00	21,341.00	13,038.03	90.81	121.71	-87.732	-518.71	1,439.65	5,806.94	5,702.44	104.50	55.569		
18,700.00	13,092.00	21,341.00	13,038.03	92.23	121.71	-87.732	-518.71	1,439.65	5,904.19	5,799.81	104.38	56.564		
18,800.00	13,092.00	21,341.00	13,038.03	93.64	121.71	-87.732	-518.71	1,439.65	6,001.53	5,897.26	104.27	57.556		
18,900.00	13,092.00	21,341.00	13,038.03	95.06	121.71	-87.732	-518.71	1,439.65	6,098.96	5,994.79	104.17	58.547		
19,000.00	13,092.00	21,341.00	13,038.03	96.47	121.71	-87.732	-518.71	1,439.65	6,196.47	6,092.39	104.08	59.536		

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





## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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					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)	
19,100.00	13,092.00	21,341.00	13,038.03	97.89	121.71	-87.732	-518.71	1,439.65	6,294.05	6,190.06	103.99	60.524		
19,200.00	13,092.00	21,341.00	13,038.03	99.30	121.71	-87.732	-518.71	1,439.65	6,391.72	6,287.80	103.91	61.510		
19,300.00	13,092.00	21,341.00	13,038.03	100.72	121.71	-87.732	-518.71	1,439.65	6,489.45	6,385.61	103.84	62.493		
19,400.00	13,092.00	21,341.00	13,038.03	102.14	121.71	-87.732	-518.71	1,439.65	6,587.25	6,483.47	103.78	63.475		
19,500.00	13,092.00	21,341.00	13,038.03	103.55	121.71	-87.732	-518.71	1,439.65	6,685.12	6,581.40	103.72	64.455		
19,600.00	13,092.00	21,341.00	13,038.03	104.97	121.71	-87.732	-518.71	1,439.65	6,783.04	6,679.38	103.66	65.433		
19,700.00	13,092.00	21,341.00	13,038.03	106.39	121.71	-87.732	-518.71	1,439.65	6,881.03	6,777.42	103.62	66.409		
19,800.00	13,092.00	21,341.00	13,038.03	107.81	121.71	-87.732	-518.71	1,439.65	6,979.08	6,875.50	103.57	67.382		
19,900.00	13,092.00	21,341.00	13,038.03	109.23	121.71	-87.732	-518.71	1,439.65	7,077.18	6,973.64	103.54	68.354		
20,000.00	13,092.00	21,341.00	13,038.03	110.65	121.71	-87.732	-518.71	1,439.65	7,175.33	7,071.82	103.51	69.323		
20,100.00	13,092.00	21,341.00	13,038.03	112.07	121.71	-87.732	-518.71	1,439.65	7,273.53	7,170.05	103.48	70.290		
20,200.00	13,092.00	21,341.00	13,038.03	113.49	121.71	-87.732	-518.71	1,439.65	7,371.78	7,268.33	103.46	71.255		
20,300.00	13,092.00	21,341.00	13,038.03	114.91	121.71	-87.732	-518.71	1,439.65	7,470.08	7,366.64	103.44	72.218		
20,400.00	13,092.00	21,341.00	13,038.03	116.34	121.71	-87.732	-518.71	1,439.65	7,568.42	7,465.00	103.42	73.178		
20,500.00	13,092.00	21,341.00	13,038.03	117.76	121.71	-87.732	-518.71	1,439.65	7,666.81	7,563.39	103.42	74.136		
20,600.00	13,092.00	21,341.00	13,038.03	119.18	121.71	-87.732	-518.71	1,439.65	7,765.23	7,661.82	103.41	75.092		
20,700.00	13,092.00	21,341.00	13,038.03	120.60	121.71	-87.732	-518.71	1,439.65	7,863.70	7,760.29	103.41	76.045		
20,800.00	13,092.00	21,341.00	13,038.03	122.03	121.71	-87.732	-518.71	1,439.65	7,962.20	7,858.79	103.41	76.996		
20,900.00	13,092.00	21,341.00	13,038.03	123.45	121.71	-87.732	-518.71	1,439.65	8,060.74	7,957.33	103.42	77.944		
21,000.00	13,092.00	21,341.00	13,038.03	124.87	121.71	-87.732	-518.71	1,439.65	8,159.32	8,055.89	103.43	78.890		
21,100.00	13,092.00	21,341.00	13,038.03	126.30	121.71	-87.732	-518.71	1,439.65	8,257.93	8,154.49	103.44	79.833		
21,200.00	13,092.00	21,341.00	13,038.03	127.72	121.71	-87.732	-518.71	1,439.65	8,356.57	8,253.12	103.46	80.774		
21,300.00	13,092.00	21,341.00	13,038.03	129.15	121.71	-87.732	-518.71	1,439.65	8,455.25	8,351.77	103.48	81.712		
21,400.00	13,092.00	21,341.00	13,038.03	130.57	121.71	-87.732	-518.71	1,439.65	8,553.95	8,450.46	103.50	82.648		
21,500.00	13,092.00	21,341.00	13,038.03	132.00	121.71	-87.732	-518.71	1,439.65	8,652.69	8,549.17	103.52	83.581		
21,600.00	13,092.00	21,341.00	13,038.03	133.42	121.71	-87.732	-518.71	1,439.65	8,751.45	8,647.90	103.55	84.512		
21,700.00	13,092.00	21,341.00	13,038.03	134.85	121.71	-87.732	-518.71	1,439.65	8,850.25	8,746.66	103.58	85.440		
21,800.00	13,092.00	21,341.00	13,038.03	136.27	121.71	-87.732	-518.71	1,439.65	8,949.07	8,845.45	103.62	86.366		
21,900.00	13,092.00	21,341.00	13,038.03	137.70	121.71	-87.732	-518.71	1,439.65	9,047.91	8,944.26	103.66	87.288		
22,000.00	13,092.00	21,341.00	13,038.03	139.12	121.71	-87.732	-518.71	1,439.65	9,146.78	9,043.09	103.69	88.209		
22,100.00	13,092.00	21,341.00	13,038.03	140.55	121.71	-87.732	-518.71	1,439.65	9,245.68	9,141.94	103.74	89.126		
22,200.00	13,092.00	21,341.00	13,038.03	141.98	121.71	-87.732	-518.71	1,439.65	9,344.59	9,240.81	103.78	90.041		
22,300.00	13,092.00	21,341.00	13,038.03	143.40	121.71	-87.732	-518.71	1,439.65	9,443.54	9,339.71	103.83	90.953		
22,400.00	13,092.00	21,341.00	13,038.03	144.83	121.71	-87.732	-518.71	1,439.65	9,542.50	9,438.62	103.88	91.863		
22,500.00	13,092.00	21,341.00	13,038.03	146.26	121.71	-87.732	-518.71	1,439.65	9,641.48	9,537.55	103.93	92.770		
22,600.00	13,092.00	21,341.00	13,038.03	147.69	121.71	-87.732	-518.71	1,439.65	9,740.49	9,636.50	103.98	93.674		
22,700.00	13,092.00	21,341.00	13,038.03	149.11	121.71	-87.732	-518.71	1,439.65	9,839.51	9,735.47	104.04	94.575		
22,728.24	13,092.00	21,341.00	13,038.03	149.52	121.71	-87.732	-518.71	1,439.65	9,867.48	9,763.43	104.06	94.829		

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com - 214H - OH / 68221 - Surveys (H&P 474)													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 179-MWD+HDGM													<b>Offset Well Error:</b> 1.00 usft
<b>Rule Assigned:</b>													
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	0.00	2.00	1.00	1.00	90.698	-15.37	1,262.14	1,262.24				
100.00	100.00	103.34	105.34	1.08	1.01	90.698	-15.37	1,261.93	1,262.03	1,259.93	2.10	601.953	
200.00	200.00	207.42	209.41	1.60	1.07	90.698	-15.37	1,261.28	1,261.41	1,258.74	2.67	473.016	
300.00	300.00	308.41	310.40	2.01	1.24	90.703	-15.46	1,260.50	1,260.64	1,257.38	3.25	387.655	
400.00	400.00	411.82	413.81	2.35	1.49	90.713	-15.67	1,259.46	1,259.64	1,255.79	3.85	327.601	
500.00	500.00	509.51	511.49	2.65	1.77	90.725	-15.93	1,258.44	1,258.59	1,254.17	4.42	284.622	
600.00	600.00	607.01	608.99	2.93	2.07	90.743	-16.31	1,257.71	1,257.85	1,252.86	4.99	251.976	
700.00	700.00	707.12	709.10	3.18	2.39	90.754	-16.55	1,256.95	1,257.09	1,251.52	5.56	225.963	
800.00	800.00	803.51	805.48	3.41	2.70	90.774	-16.98	1,256.35	1,256.48	1,250.37	6.11	205.481	
900.00	900.00	901.47	903.44	3.64	3.03	90.788	-17.28	1,256.05	1,256.17	1,249.51	6.66	188.515	
1,000.00	1,000.00	1,000.19	1,002.16	3.85	3.36	90.808	-17.71	1,255.80	1,255.93	1,248.72	7.21	174.272	
1,100.00	1,100.00	1,104.42	1,106.39	4.05	3.72	90.829	-18.16	1,255.52	1,255.67	1,247.91	7.76	161.745	
1,200.00	1,200.00	1,198.33	1,200.30	4.24	4.04	90.865	-18.95	1,255.15	1,255.29	1,247.02	8.28	151.664	
1,203.01	1,203.01	1,201.05	1,203.01	4.25	4.05	90.866	-18.98	1,255.15	1,255.29	1,247.00	8.29	151.393	
1,300.00	1,300.00	1,291.00	1,292.95	4.43	4.35	90.923	-20.23	1,255.43	1,255.62	1,246.84	8.78	143.042	
1,400.00	1,400.00	1,390.61	1,392.54	4.61	4.69	91.007	-22.07	1,256.06	1,256.27	1,246.98	9.30	135.135	
1,500.00	1,500.00	1,498.97	1,500.89	4.78	5.06	91.083	-23.75	1,256.39	1,256.61	1,246.77	9.85	127.639	
1,600.00	1,599.98	1,614.41	1,616.33	4.98	5.47	-78.979	-24.50	1,255.63	1,255.63	1,245.27	10.37	121.140	
1,620.70	1,620.67	1,638.38	1,640.29	4.99	5.55	-79.028	-24.51	1,255.28	1,255.18	1,244.73	10.45	120.112	
1,700.00	1,699.89	1,728.40	1,730.29	5.07	5.86	-79.212	-24.17	1,253.49	1,252.97	1,242.15	10.82	115.772	
1,800.00	1,799.81	1,842.04	1,843.89	5.23	6.26	-79.453	-23.60	1,250.15	1,249.25	1,237.91	11.34	110.181	
1,900.00	1,899.72	1,952.29	1,954.04	5.41	6.65	-79.685	-23.07	1,245.61	1,244.34	1,232.49	11.85	105.007	
2,000.00	1,999.63	2,051.96	2,053.62	5.60	7.00	-79.905	-22.42	1,241.31	1,239.27	1,226.94	12.33	100.527	
2,100.00	2,099.54	2,152.99	2,154.54	5.80	7.35	-80.131	-21.73	1,236.84	1,234.11	1,221.30	12.81	96.340	
2,200.00	2,199.45	2,261.04	2,262.48	6.02	7.73	-80.370	-21.11	1,231.80	1,228.74	1,215.43	13.32	92.282	
2,300.00	2,299.36	2,378.30	2,379.54	6.24	8.15	-80.586	-21.42	1,224.98	1,222.23	1,208.38	13.85	88.249	
2,400.00	2,399.27	2,474.00	2,475.03	6.47	8.50	-80.739	-22.23	1,218.80	1,215.09	1,200.77	14.32	84.864	
2,500.00	2,499.18	2,572.76	2,573.60	6.72	8.85	-80.902	-22.96	1,212.71	1,208.22	1,193.43	14.80	81.661	
2,600.00	2,599.10	2,669.00	2,669.66	6.96	9.20	-81.062	-23.71	1,206.84	1,201.46	1,186.20	15.26	78.707	
2,700.00	2,699.01	2,765.37	2,765.86	7.22	9.55	-81.221	-24.50	1,201.25	1,194.99	1,179.26	15.73	75.947	
2,800.00	2,798.92	2,860.35	2,860.70	7.48	9.89	-81.381	-25.24	1,196.14	1,188.96	1,172.76	16.20	73.397	
2,900.00	2,898.83	2,960.02	2,960.24	7.74	10.25	-81.553	-25.97	1,191.00	1,183.16	1,166.48	16.68	70.941	
3,000.00	2,998.74	3,064.98	3,065.03	8.01	10.63	-81.715	-27.17	1,185.30	1,177.08	1,159.90	17.17	68.539	
3,100.00	3,098.65	3,162.78	3,162.67	8.28	10.99	-81.846	-28.73	1,179.90	1,170.91	1,153.26	17.65	66.350	
3,200.00	3,198.56	3,258.24	3,257.99	8.56	11.33	-81.972	-30.32	1,174.89	1,165.00	1,146.89	18.11	64.319	
3,300.00	3,298.47	3,351.50	3,351.12	8.84	11.67	-82.089	-32.00	1,170.43	1,159.58	1,141.01	18.57	62.441	
3,400.00	3,398.39	3,442.62	3,442.15	9.13	12.00	-82.203	-33.64	1,166.66	1,154.80	1,135.78	19.02	60.713	
3,500.00	3,498.30	3,531.00	3,530.47	9.41	12.32	-82.318	-35.11	1,163.86	1,150.99	1,131.53	19.46	59.149	
3,600.00	3,598.21	3,629.56	3,628.99	9.70	12.67	-82.478	-36.14	1,161.19	1,147.69	1,127.75	19.93	57.583	
3,700.00	3,698.12	3,727.20	3,726.59	9.99	13.02	-82.626	-37.37	1,158.72	1,144.56	1,124.16	20.40	56.108	
3,800.00	3,798.03	3,826.89	3,826.24	10.29	13.38	-82.748	-39.22	1,156.38	1,141.59	1,120.72	20.87	54.688	
3,900.00	3,897.94	3,933.06	3,932.36	10.58	13.76	-82.886	-41.05	1,153.59	1,138.35	1,116.98	21.37	53.264	
4,000.00	3,997.85	4,036.37	4,035.60	10.88	14.14	-83.031	-42.66	1,150.26	1,134.53	1,112.67	21.86	51.902	
4,100.00	4,097.76	4,132.96	4,132.13	11.18	14.48	-83.165	-44.23	1,147.25	1,130.83	1,108.51	22.32	50.657	
4,200.00	4,197.68	4,227.51	4,226.63	11.48	14.83	-83.294	-45.78	1,144.65	1,127.49	1,104.71	22.78	49.497	
4,300.00	4,297.59	4,328.48	4,327.56	11.78	15.19	-83.428	-47.53	1,142.28	1,124.56	1,101.30	23.26	48.354	
4,400.00	4,397.50	4,436.13	4,435.15	12.08	15.58	-83.585	-49.14	1,139.11	1,121.05	1,097.29	23.76	47.188	
4,500.00	4,497.41	4,528.43	4,527.39	12.39	15.91	-83.722	-50.52	1,136.23	1,117.39	1,093.19	24.20	46.165	
4,600.00	4,597.32	4,619.47	4,618.39	12.69	16.24	-83.837	-52.23	1,134.32	1,114.70	1,090.06	24.65	45.230	
4,700.00	4,697.23	4,728.94	4,727.82	13.00	16.63	-83.944	-54.87	1,132.22	1,112.20	1,087.05	25.15	44.221	
4,800.00	4,797.14	4,818.89	4,817.71	13.31	16.95	-84.026	-57.20	1,130.09	1,109.25	1,083.66	25.59	43.351	
4,900.00	4,897.05	4,903.62	4,902.41	13.62	17.25	-84.101	-59.37	1,129.26	1,107.64	1,081.64	26.00	42.603	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,000.00	4,996.97	5,008.54	5,007.29	13.92	17.62	-84.179	-62.28	1,129.08	1,106.86	1,080.38	26.48	41.795			
5,100.00	5,096.88	5,115.93	5,114.63	14.23	18.00	-84.275	-65.03	1,127.83	1,105.07	1,078.10	26.98	40.960			
5,200.00	5,196.79	5,226.36	5,225.02	14.55	18.39	-84.413	-67.17	1,125.67	1,102.56	1,075.07	27.49	40.112			
5,300.00	5,296.70	5,321.26	5,319.88	14.86	18.73	-84.538	-68.92	1,123.58	1,099.82	1,071.88	27.94	39.364			
5,400.00	5,396.61	5,426.87	5,425.45	15.17	19.11	-84.663	-71.12	1,121.59	1,097.40	1,068.97	28.43	38.600			
5,500.00	5,496.52	5,606.69	5,604.89	15.48	19.77	-84.955	-73.97	1,111.11	1,091.34	1,062.21	29.13	37.466			
5,600.00	5,596.43	5,734.06	5,731.39	15.79	20.24	-85.164	-76.64	1,096.58	1,079.33	1,049.68	29.65	36.398			
5,700.00	5,696.34	5,830.67	5,827.23	16.11	20.60	-85.320	-78.88	1,084.57	1,066.39	1,036.28	30.12	35.407			
5,800.00	5,796.26	5,925.67	5,921.53	16.42	20.96	-85.474	-81.09	1,073.32	1,054.04	1,023.46	30.58	34.469			
5,900.00	5,896.17	6,024.60	6,019.76	16.74	21.33	-85.630	-83.51	1,061.77	1,041.85	1,010.80	31.05	33.556			
6,000.00	5,996.08	6,123.45	6,117.90	17.05	21.70	-85.787	-85.98	1,050.23	1,029.67	998.15	31.52	32.671			
6,100.00	6,095.99	6,218.32	6,212.12	17.37	22.06	-85.926	-88.59	1,039.37	1,017.69	985.72	31.98	31.825			
6,200.00	6,195.90	6,331.96	6,324.91	17.68	22.49	-86.050	-92.57	1,026.15	1,005.50	973.02	32.48	30.961			
6,300.00	6,295.81	6,430.98	6,423.04	18.00	22.86	-86.087	-97.38	1,013.85	992.34	959.39	32.95	30.116			
6,400.00	6,395.72	6,527.30	6,518.52	18.32	23.23	-86.116	-102.18	1,002.07	979.37	945.95	33.42	29.304			
6,500.00	6,495.63	6,623.06	6,613.48	18.63	23.60	-86.148	-106.88	990.67	966.72	932.83	33.89	28.526			
6,600.00	6,595.55	6,722.17	6,711.78	18.95	23.98	-86.178	-111.81	979.05	954.25	919.88	34.36	27.768			
6,700.00	6,695.46	6,822.06	6,810.86	19.27	24.36	-86.211	-116.72	967.29	941.73	906.89	34.84	27.029			
6,800.00	6,795.37	6,920.35	6,908.35	19.59	24.74	-86.249	-121.49	955.71	929.22	893.91	35.32	26.312			
6,900.00	6,895.28	7,016.59	7,003.83	19.91	25.11	-86.281	-126.25	944.59	916.92	881.14	35.79	25.623			
7,000.00	6,995.19	7,111.36	7,097.89	20.23	25.47	-86.317	-130.83	934.04	905.05	868.80	36.25	24.966			
7,100.00	7,095.10	7,210.81	7,196.66	20.54	25.85	-86.363	-135.48	923.36	893.60	856.87	36.73	24.331			
7,200.00	7,195.01	7,320.62	7,305.64	20.86	26.27	-86.527	-139.01	910.39	881.22	844.00	37.22	23.677			
7,300.00	7,294.92	7,419.57	7,403.79	21.18	26.65	-86.735	-141.44	898.05	868.30	830.62	37.69	23.041			
7,400.00	7,394.84	7,514.10	7,497.60	21.50	27.01	-86.936	-143.76	886.64	855.78	817.64	38.14	22.436			
7,500.00	7,494.75	7,607.76	7,590.61	21.82	27.37	-87.151	-145.85	875.84	843.85	805.25	38.60	21.862			
7,600.00	7,594.66	7,710.66	7,692.85	22.14	27.76	-87.402	-147.96	864.43	832.40	793.32	39.07	21.303			
7,700.00	7,694.57	7,820.70	7,802.00	22.46	28.19	-87.610	-151.39	850.93	819.62	780.06	39.56	20.716			
7,800.00	7,794.48	7,911.83	7,892.34	22.78	28.54	-87.729	-155.06	839.55	806.56	766.54	40.02	20.154			
7,900.00	7,894.39	7,999.49	7,979.41	23.10	28.88	-87.843	-158.48	829.96	795.03	754.56	40.47	19.647			
8,000.00	7,994.30	8,101.83	8,081.16	23.42	29.27	-87.975	-162.42	819.63	784.35	743.40	40.95	19.156			
8,100.00	8,094.21	8,202.65	8,181.27	23.75	29.66	-88.070	-166.93	808.67	772.81	731.39	41.42	18.657			
8,200.00	8,194.13	8,291.14	8,269.22	24.07	30.00	-88.156	-170.80	799.64	761.97	720.10	41.87	18.200			
8,300.00	8,294.04	8,405.88	8,383.32	24.39	30.44	-88.333	-174.96	788.34	751.67	709.29	42.38	17.738			
8,400.00	8,393.95	8,509.08	8,485.73	24.71	30.84	-88.543	-178.40	776.02	739.24	696.38	42.86	17.249			
8,500.00	8,493.86	8,594.81	8,570.87	25.03	31.17	-88.737	-180.99	766.40	727.60	684.31	43.29	16.806			
8,600.00	8,593.77	8,685.19	8,660.80	25.35	31.51	-88.959	-183.37	757.70	717.59	673.85	43.74	16.407			
8,700.00	8,693.68	8,777.87	8,753.12	25.67	31.86	-89.216	-185.36	749.71	708.66	664.48	44.18	16.040			
8,800.00	8,793.59	8,871.92	8,846.87	26.00	32.21	-89.500	-187.05	742.38	700.63	656.00	44.63	15.699			
8,900.00	8,893.50	8,969.38	8,944.06	26.32	32.58	-89.806	-188.64	735.33	693.19	648.10	45.09	15.374			
9,000.00	8,993.42	9,065.12	9,039.56	26.64	32.93	-90.117	-190.09	728.75	686.14	640.60	45.54	15.067			
9,100.00	9,093.33	9,156.76	9,131.02	26.96	33.27	-90.427	-191.26	723.20	679.98	634.01	45.98	14.790			
9,200.00	9,193.24	9,249.81	9,223.95	27.29	33.61	-90.752	-192.19	718.63	675.00	628.59	46.41	14.543			
9,300.00	9,293.15	9,342.85	9,316.91	27.61	33.94	-91.100	-192.74	714.89	671.01	624.16	46.85	14.323			
9,400.00	9,393.06	9,426.19	9,400.22	27.93	34.23	-91.411	-193.03	712.83	668.64	621.41	47.23	14.158			
9,438.26	9,431.28	9,458.00	9,432.03	28.05	34.34	-91.518	-193.14	712.69	668.48	621.11	47.37	14.112			
9,500.00	9,492.97	9,513.23	9,487.26	28.25	34.52	-91.693	-193.36	712.99	668.83	621.23	47.61	14.049			
9,600.00	9,592.88	9,607.31	9,581.33	28.58	34.82	-91.970	-193.81	714.42	670.35	622.34	48.01	13.962			
9,700.00	9,692.79	9,705.41	9,679.41	28.90	35.13	-92.232	-194.45	716.48	672.42	623.98	48.44	13.881			
9,800.00	9,792.71	9,808.79	9,782.76	29.22	35.46	-92.464	-195.63	718.68	674.44	625.53	48.90	13.791			
9,900.00	9,892.62	9,910.50	9,884.44	29.55	35.79	-92.633	-197.59	720.44	675.89	626.53	49.36	13.693			
10,000.00	9,992.53	10,019.46	9,993.37	29.87	36.15	-92.885	-198.99	721.50	676.76	626.90	49.87	13.571			

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
10,100.00	10,092.44	10,116.62	10,090.53	30.19	36.47	-93.295	-198.25	721.35	677.02	626.70	50.31	13.456			
10,200.00	10,192.35	10,216.15	10,190.05	30.52	36.80	-93.761	-196.90	721.33	677.57	626.80	50.78	13.344			
10,300.00	10,292.26	10,312.67	10,286.56	30.84	37.11	-94.185	-195.82	721.66	678.47	627.25	51.22	13.246			
10,400.00	10,392.17	10,414.46	10,388.35	31.16	37.44	-94.579	-195.26	722.24	679.48	627.79	51.69	13.145			
10,500.00	10,492.08	10,519.79	10,493.66	31.49	37.78	-94.859	-196.25	722.85	680.16	627.97	52.18	13.035			
10,600.00	10,592.00	10,640.85	10,611.66	31.81	38.19	-93.211	-220.63	726.37	678.25	625.61	52.64	12.884			
10,700.00	10,691.91	10,819.28	10,762.40	32.13	38.76	-85.888	-313.38	731.88	671.89	618.37	53.53	12.552			
10,800.00	10,791.82	10,873.84	10,799.79	32.46	38.93	-82.620	-353.07	732.48	665.54	611.45	54.10	12.303			
10,817.40	10,809.20	10,882.65	10,805.33	32.51	38.95	-82.051	-359.91	732.74	665.39	611.19	54.20	12.277	CC, ES		
10,900.00	10,891.73	10,929.81	10,832.66	32.78	39.10	-78.849	-398.29	734.41	668.71	613.90	54.80	12.202	SF		
11,000.00	10,991.64	10,985.69	10,860.43	33.11	39.26	-74.810	-446.74	735.88	681.77	626.17	55.60	12.263			
11,100.00	11,091.55	11,033.00	10,880.42	33.43	39.42	-71.261	-489.60	736.11	705.18	649.02	56.16	12.557			
11,200.00	11,191.46	11,074.15	10,895.96	33.75	39.56	-68.143	-527.70	735.67	738.91	682.47	56.43	13.093			
11,300.00	11,291.37	11,106.60	10,907.37	34.08	39.67	-65.695	-558.06	735.00	782.08	725.74	56.34	13.881			
11,400.00	11,391.29	11,134.25	10,916.09	34.40	39.78	-63.606	-584.29	734.11	833.75	777.72	56.03	14.880			
11,500.00	11,491.20	11,163.37	10,924.69	34.73	39.89	-61.427	-612.08	732.97	892.56	836.83	55.74	16.014			
11,600.00	11,591.11	11,175.00	10,928.01	35.05	39.93	-60.565	-623.22	732.47	957.42	902.36	55.05	17.391			
11,700.00	11,691.02	11,197.66	10,934.04	35.38	40.02	-58.897	-645.04	731.47	1,027.29	972.59	54.70	18.780			
11,800.00	11,790.93	11,222.00	10,939.66	35.70	40.12	-57.123	-668.70	730.42	1,101.71	1,047.26	54.45	20.232			
11,900.00	11,890.84	11,222.00	10,939.66	36.03	40.12	-57.123	-668.70	730.42	1,179.36	1,125.52	53.84	21.907			
11,907.54	11,898.38	11,222.00	10,939.66	36.05	40.12	-57.123	-668.70	730.42	1,185.35	1,131.56	53.79	22.035			
12,000.00	11,990.80	11,222.00	10,939.66	36.33	40.12	-59.329	-668.70	730.42	1,260.61	1,207.24	53.37	23.619			
12,028.24	12,019.04	11,222.00	10,939.66	36.36	40.12	109.915	-668.70	730.42	1,284.22	1,230.95	53.26	24.111			
12,100.00	12,090.80	11,222.00	10,939.66	36.36	40.12	109.915	-668.70	730.42	1,345.09	1,292.07	53.02	25.369			
12,200.00	12,190.80	11,240.84	10,943.37	36.36	40.20	111.354	-687.15	729.65	1,431.19	1,378.17	53.03	26.989			
12,300.00	12,290.80	11,246.03	10,944.28	36.36	40.22	111.746	-692.25	729.45	1,519.12	1,466.20	52.92	28.706			
12,400.00	12,390.80	11,250.73	10,945.08	36.37	40.24	112.102	-696.89	729.28	1,608.39	1,555.52	52.88	30.417			
12,500.00	12,490.80	11,269.00	10,947.80	36.37	40.31	113.468	-714.94	728.65	1,699.05	1,646.00	53.04	32.033			
12,528.24	12,519.04	11,269.00	10,947.80	36.37	40.31	113.468	-714.94	728.65	1,724.73	1,671.70	53.04	32.519			
12,550.00	12,540.79	11,269.00	10,947.80	36.40	40.31	-61.730	-714.94	728.65	1,744.51	1,691.47	53.04	32.891			
12,600.00	12,590.61	11,269.00	10,947.80	36.63	40.31	-53.088	-714.94	728.65	1,789.46	1,736.42	53.04	33.738			
12,650.00	12,639.89	11,269.00	10,947.80	36.95	40.31	-46.004	-714.94	728.65	1,833.51	1,780.47	53.04	34.570			
12,700.00	12,688.24	11,269.00	10,947.80	37.29	40.31	-40.297	-714.94	728.65	1,876.40	1,823.37	53.03	35.382			
12,750.00	12,735.30	11,269.00	10,947.80	37.62	40.31	-35.717	-714.94	728.65	1,917.90	1,864.87	53.03	36.169			
12,800.00	12,780.72	11,269.00	10,947.80	37.96	40.31	-32.031	-714.94	728.65	1,957.78	1,904.76	53.02	36.924			
12,850.00	12,824.15	11,269.00	10,947.80	38.29	40.31	-29.047	-714.94	728.65	1,995.85	1,942.82	53.02	37.641			
12,900.00	12,865.26	11,293.22	10,950.52	38.60	40.41	-26.276	-738.99	727.99	2,031.25	1,978.05	53.21	38.178			
12,950.00	12,903.73	11,316.00	10,952.16	38.90	40.50	-24.092	-761.71	727.60	2,064.96	2,011.59	53.37	38.691			
13,000.00	12,939.27	11,316.00	10,952.16	39.18	40.50	-22.546	-761.71	727.60	2,095.73	2,042.35	53.38	39.264			
13,050.00	12,971.62	11,316.00	10,952.16	39.43	40.50	-21.265	-761.71	727.60	2,124.02	2,070.63	53.39	39.782			
13,100.00	13,000.52	11,340.69	10,953.31	39.65	40.61	-20.057	-786.37	727.26	2,149.46	2,095.89	53.57	40.125			
13,150.00	13,025.76	11,363.39	10,954.10	39.85	40.70	-19.099	-809.05	726.90	2,171.75	2,118.02	53.73	40.418			
13,200.00	13,047.14	11,395.00	10,954.78	40.02	40.84	-18.301	-840.65	726.29	2,190.79	2,136.85	53.95	40.610			
13,250.00	13,064.50	11,421.03	10,955.10	40.15	40.95	-17.704	-866.68	725.74	2,206.33	2,152.19	54.13	40.758			
13,300.00	13,077.71	11,461.42	10,955.46	40.26	41.14	-17.224	-907.05	724.81	2,218.09	2,163.69	54.40	40.773			
13,350.00	13,086.67	11,503.88	10,955.65	40.33	41.34	-16.897	-949.50	723.76	2,225.96	2,171.28	54.68	40.707			
13,400.00	13,091.30	11,549.96	10,955.73	40.38	41.56	-16.713	-995.56	722.51	2,229.79	2,174.80	54.99	40.547			
13,428.24	13,092.00	11,576.09	10,955.72	40.39	41.69	-16.673	-1,021.68	721.75	2,230.15	2,175.03	55.12	40.458			
13,500.00	13,092.00	11,642.10	10,955.70	40.40	42.04	-16.619	-1,087.67	720.20	2,229.50	2,174.07	55.43	40.221			
13,597.04	13,092.00	11,721.71	10,955.76	40.43	42.48	-16.590	-1,167.28	719.77	2,229.03	2,173.24	55.79	39.955			
13,600.00	13,092.00	11,723.93	10,955.75	40.43	42.49	-16.589	-1,169.50	719.77	2,229.03	2,173.23	55.80	39.948			
13,700.00	13,092.00	11,845.23	10,956.22	40.46	43.20	-16.593	-1,290.79	720.94	2,228.67	2,172.17	56.50	39.445			

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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+HJGM		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		
13,800.00	13,092.00	12,016.42	10,962.81	40.50	44.32	-16.666	-1,461.81	723.57	2,224.44	2,166.69	57.75	38.520			
13,900.00	13,092.00	12,100.89	10,966.44	40.53	44.90	-16.721	-1,546.18	725.54	2,220.71	2,162.42	58.29	38.096			
14,000.00	13,092.00	12,186.60	10,969.67	40.58	45.52	-16.781	-1,631.80	727.80	2,217.58	2,158.70	58.88	37.662			
14,100.00	13,092.00	12,269.70	10,972.23	40.63	46.15	-16.840	-1,714.82	730.21	2,215.19	2,155.71	59.48	37.245			
14,200.00	13,092.00	12,353.43	10,974.18	40.69	46.79	-16.894	-1,798.50	732.63	2,213.53	2,153.42	60.11	36.827			
14,300.00	13,092.00	12,436.00	10,975.34	40.76	47.45	-16.940	-1,881.03	734.92	2,212.70	2,151.95	60.75	36.422			
14,330.47	13,092.00	12,453.45	10,975.45	40.78	47.60	-16.948	-1,898.46	735.38	2,212.65	2,151.77	60.87	36.348			
14,400.00	13,092.00	12,497.48	10,975.34	40.85	47.96	-16.963	-1,942.48	736.44	2,213.11	2,151.92	61.20	36.163			
14,500.00	13,092.00	12,567.23	10,974.08	40.95	48.55	-16.973	-2,012.21	737.89	2,215.12	2,153.38	61.75	35.874			
14,600.00	13,092.00	12,707.22	10,971.05	41.10	49.76	-16.999	-2,152.12	741.21	2,217.92	2,154.84	63.08	35.158			
14,700.00	13,092.00	12,810.76	10,970.89	41.29	50.69	-17.030	-2,255.64	743.51	2,218.43	2,154.36	64.07	34.623			
14,800.00	13,092.00	12,900.96	10,970.53	41.57	51.52	-17.065	-2,345.80	745.90	2,219.30	2,154.36	64.94	34.172			
14,900.00	13,092.00	12,989.39	10,969.84	41.99	52.35	-17.104	-2,434.19	748.55	2,220.65	2,154.83	65.82	33.738			
15,000.00	13,092.00	13,111.18	10,968.73	42.60	53.53	-17.119	-2,555.96	750.68	2,221.74	2,154.62	67.13	33.098			
15,100.00	13,092.00	13,194.00	10,967.54	43.42	54.34	-17.102	-2,638.76	751.14	2,222.96	2,154.99	67.96	32.708			
15,200.00	13,092.00	13,257.93	10,965.86	44.43	54.99	-17.085	-2,702.67	751.60	2,225.32	2,156.74	68.58	32.448			
15,300.00	13,092.00	13,493.79	10,966.75	45.56	57.42	-17.136	-2,938.41	755.68	2,225.03	2,153.51	71.52	31.111			
15,400.00	13,092.00	13,587.55	10,970.10	46.76	58.42	-17.197	-3,032.08	758.00	2,222.07	2,149.44	72.62	30.597			
15,500.00	13,092.00	13,674.76	10,972.68	48.01	59.36	-17.241	-3,119.23	759.83	2,219.58	2,145.93	73.65	30.137			
15,600.00	13,092.00	13,761.00	10,974.86	49.30	60.30	-17.278	-3,205.43	761.46	2,217.47	2,142.79	74.67	29.695			
15,700.00	13,092.00	13,856.00	10,976.57	50.61	61.34	-17.306	-3,300.40	762.99	2,215.94	2,140.11	75.84	29.219			
15,800.00	13,092.00	13,944.81	10,977.54	51.93	62.33	-17.322	-3,389.20	764.18	2,214.99	2,138.07	76.92	28.795			
15,865.27	13,092.00	13,990.80	10,977.79	52.80	62.85	-17.325	-3,435.18	764.69	2,214.69	2,137.22	77.46	28.591			
15,900.00	13,092.00	14,014.45	10,977.71	53.27	63.11	-17.323	-3,458.83	764.86	2,214.77	2,137.04	77.73	28.492			
16,000.00	13,092.00	14,088.60	10,976.63	54.61	63.95	-17.301	-3,532.98	765.01	2,215.92	2,137.31	78.61	28.190			
16,100.00	13,092.00	14,168.57	10,974.51	55.97	64.86	-17.258	-3,612.91	764.71	2,218.05	2,138.49	79.56	27.879			
16,200.00	13,092.00	14,349.91	10,971.05	57.33	66.96	-17.175	-3,794.19	764.15	2,220.07	2,138.04	82.03	27.064			
16,300.00	13,092.00	14,436.46	10,971.43	58.69	67.97	-17.152	-3,880.75	763.95	2,219.30	2,136.17	83.13	26.697			
16,400.00	13,092.00	14,527.95	10,971.36	60.06	69.04	-17.122	-3,972.24	763.65	2,219.00	2,134.68	84.31	26.319			
16,417.91	13,092.00	14,543.57	10,971.29	60.31	69.23	-17.116	-3,987.86	763.56	2,218.99	2,134.47	84.51	26.256			
16,500.00	13,092.00	14,613.00	10,970.73	61.44	70.05	-17.080	-4,057.28	762.93	2,219.18	2,133.79	85.39	25.987			
16,600.00	13,092.00	14,694.85	10,969.38	62.81	71.02	-17.025	-4,139.11	761.91	2,220.12	2,133.69	86.43	25.688			
16,700.00	13,092.00	14,771.86	10,967.31	64.20	71.95	-16.965	-4,216.08	760.86	2,222.01	2,134.63	87.38	25.429			
16,800.00	13,092.00	14,848.76	10,964.38	65.58	72.88	-16.898	-4,292.93	759.78	2,224.96	2,136.63	88.33	25.188			
16,900.00	13,092.00	14,954.67	10,959.49	66.97	74.17	-16.797	-4,398.70	758.18	2,228.69	2,138.95	89.74	24.836			
17,000.00	13,092.00	15,063.80	10,955.22	68.36	75.50	-16.676	-4,507.72	755.59	2,231.46	2,140.28	91.18	24.472			
17,100.00	13,092.00	15,219.56	10,951.73	69.75	77.41	-16.537	-4,663.40	752.46	2,232.62	2,139.23	93.39	23.906			
17,200.00	13,092.00	15,303.96	10,950.50	71.14	78.46	-16.470	-4,747.78	750.93	2,233.24	2,138.74	94.50	23.633			
17,300.00	13,092.00	15,383.54	10,948.62	72.54	79.45	-16.400	-4,827.32	749.39	2,234.69	2,139.16	95.53	23.393			
17,400.00	13,092.00	15,463.00	10,945.96	73.94	80.44	-16.325	-4,906.72	747.90	2,237.09	2,140.54	96.55	23.170			
17,500.00	13,092.00	15,601.86	10,942.54	75.34	82.18	-16.209	-5,045.52	745.51	2,238.57	2,140.03	98.54	22.717			
17,600.00	13,092.00	15,688.49	10,940.73	76.74	83.28	-16.145	-5,132.11	744.29	2,239.93	2,140.22	99.71	22.465			
17,700.00	13,092.00	15,773.96	10,938.38	78.14	84.36	-16.087	-5,217.55	743.42	2,242.01	2,141.15	100.86	22.229			
17,800.00	13,092.00	15,864.87	10,935.99	79.55	85.52	-16.068	-5,308.42	744.19	2,244.51	2,142.37	102.14	21.975			
17,900.00	13,092.00	15,948.73	10,933.45	80.95	86.59	-16.066	-5,392.23	745.66	2,247.64	2,144.32	103.32	21.754			
18,000.00	13,092.00	16,031.00	10,930.59	82.36	87.64	-16.068	-5,474.43	747.35	2,251.32	2,146.85	104.47	21.549			
18,100.00	13,092.00	16,125.00	10,926.73	83.76	88.85	-16.067	-5,568.33	749.34	2,255.59	2,149.75	105.84	21.312			
18,200.00	13,092.00	16,217.09	10,922.37	85.17	90.04	-16.055	-5,660.30	750.98	2,260.36	2,153.20	107.16	21.093			
18,300.00	13,092.00	16,303.05	10,917.87	86.58	91.16	-16.033	-5,746.14	752.21	2,265.52	2,157.15	108.37	20.905			
18,400.00	13,092.00	16,477.09	10,910.87	87.99	93.42	-15.983	-5,920.02	753.81	2,269.39	2,158.27	111.12	20.422			
18,500.00	13,092.00	16,613.16	10,909.08	89.40	95.19	-15.971	-6,056.07	755.16	2,270.61	2,157.37	113.23	20.052			
18,600.00	13,092.00	16,704.56	10,908.50	90.81	96.39	-15.981	-6,147.45	756.62	2,271.39	2,156.79	114.60	19.820			

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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				Reference		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			
18,700.00	13,092.00	16,787.00	10,907.58	92.23	97.47	-15.993	-6,229.87	758.16	2,272.72	2,156.90	115.82	19.623				
18,800.00	13,092.00	16,860.27	10,906.07	93.64	98.43	-16.003	-6,303.11	759.69	2,275.03	2,158.16	116.87	19.466				
18,900.00	13,092.00	17,002.43	10,903.17	95.06	100.31	-15.998	-6,445.23	761.71	2,277.16	2,158.03	119.13	19.115				
19,000.00	13,092.00	17,137.31	10,902.57	96.47	102.09	-15.989	-6,580.09	762.82	2,277.56	2,156.31	121.25	18.784				
19,100.00	13,092.00	17,290.46	10,906.49	97.89	104.13	-16.052	-6,733.15	765.75	2,275.05	2,151.31	123.74	18.386				
19,200.00	13,092.00	17,384.37	10,909.39	99.30	105.38	-16.096	-6,826.99	767.62	2,272.38	2,147.15	125.22	18.146				
19,300.00	13,092.00	17,478.08	10,911.86	100.72	106.63	-16.132	-6,920.65	769.32	2,270.07	2,143.37	126.71	17.916				
19,400.00	13,092.00	17,577.07	10,914.35	102.14	107.96	-16.162	-7,019.61	770.80	2,267.80	2,139.52	128.28	17.679				
19,500.00	13,092.00	17,667.12	10,916.38	103.55	109.17	-16.190	-7,109.61	772.23	2,265.82	2,136.12	129.70	17.470				
19,600.00	13,092.00	17,751.64	10,917.77	104.97	110.30	-16.208	-7,194.12	773.38	2,264.36	2,133.34	131.02	17.283				
19,699.47	13,092.00	17,827.00	10,918.11	106.38	111.31	-16.206	-7,269.48	773.91	2,263.84	2,131.69	132.15	17.131				
19,700.00	13,092.00	17,827.00	10,918.11	106.39	111.31	-16.206	-7,269.48	773.91	2,263.84	2,131.69	132.15	17.131				
19,800.00	13,092.00	17,909.71	10,917.58	107.81	112.42	-16.188	-7,352.18	774.12	2,264.26	2,130.87	133.39	16.975				
19,900.00	13,092.00	18,002.23	10,916.39	109.23	113.66	-16.159	-7,444.69	774.15	2,265.24	2,130.45	134.79	16.806				
20,000.00	13,092.00	18,106.84	10,915.02	110.65	115.07	-16.130	-7,549.29	774.37	2,266.29	2,129.89	136.40	16.615				
20,100.00	13,092.00	18,201.67	10,913.93	112.07	116.35	-16.116	-7,644.12	775.01	2,267.31	2,129.44	137.87	16.446				
20,200.00	13,092.00	18,275.78	10,912.55	113.49	117.35	-16.100	-7,718.21	775.46	2,269.01	2,130.06	138.95	16.330				
20,300.00	13,092.00	18,409.45	10,909.95	114.91	119.16	-16.080	-7,851.85	776.67	2,270.97	2,129.86	141.11	16.093				
20,400.00	13,092.00	18,498.37	10,908.90	116.34	120.37	-16.087	-7,940.75	778.15	2,272.26	2,129.76	142.50	15.945				
20,500.00	13,092.00	18,674.37	10,909.81	117.76	122.76	-16.133	-8,116.70	781.46	2,272.13	2,126.66	145.47	15.619				
20,600.00	13,092.00	18,778.85	10,912.38	119.18	124.18	-16.165	-8,221.15	783.02	2,269.92	2,122.74	147.18	15.423				
20,680.33	13,092.00	18,808.00	10,913.10	120.32	124.58	-16.173	-8,250.28	783.43	2,268.68	2,121.10	147.59	15.372				
20,700.00	13,092.00	18,808.00	10,913.10	120.60	124.58	-16.173	-8,250.28	783.43	2,268.77	2,121.22	147.55	15.376				
20,800.00	13,092.00	18,808.00	10,913.10	122.03	124.58	-16.173	-8,250.28	783.43	2,271.84	2,124.60	147.24	15.430				
20,900.00	13,092.00	18,808.00	10,913.10	123.45	124.58	-16.173	-8,250.28	783.43	2,279.29	2,132.56	146.74	15.533				
21,000.00	13,092.00	18,808.00	10,913.10	124.87	124.58	-16.173	-8,250.28	783.43	2,291.10	2,145.05	146.05	15.687				
21,100.00	13,092.00	18,808.00	10,913.10	126.30	124.58	-16.173	-8,250.28	783.43	2,307.17	2,161.99	145.18	15.891				
21,200.00	13,092.00	18,808.00	10,913.10	127.72	124.58	-16.173	-8,250.28	783.43	2,327.44	2,183.28	144.16	16.145				
21,300.00	13,092.00	18,808.00	10,913.10	129.15	124.58	-16.173	-8,250.28	783.43	2,351.79	2,208.79	143.00	16.446				
21,400.00	13,092.00	18,808.00	10,913.10	130.57	124.58	-16.173	-8,250.28	783.43	2,380.10	2,238.39	141.71	16.796				
21,500.00	13,092.00	18,808.00	10,913.10	132.00	124.58	-16.173	-8,250.28	783.43	2,412.22	2,271.90	140.31	17.192				
21,600.00	13,092.00	18,808.00	10,913.10	133.42	124.58	-16.173	-8,250.28	783.43	2,448.01	2,309.17	138.83	17.633				
21,700.00	13,092.00	18,808.00	10,913.10	134.85	124.58	-16.173	-8,250.28	783.43	2,487.30	2,350.02	137.28	18.118				
21,800.00	13,092.00	18,808.00	10,913.10	136.27	124.58	-16.173	-8,250.28	783.43	2,529.94	2,394.26	135.68	18.646				
21,900.00	13,092.00	18,808.00	10,913.10	137.70	124.58	-16.173	-8,250.28	783.43	2,575.76	2,441.71	134.05	19.215				
22,000.00	13,092.00	18,808.00	10,913.10	139.12	124.58	-16.173	-8,250.28	783.43	2,624.59	2,492.20	132.39	19.824				
22,100.00	13,092.00	18,808.00	10,913.10	140.55	124.58	-16.173	-8,250.28	783.43	2,676.27	2,545.53	130.74	20.470				
22,200.00	13,092.00	18,808.00	10,913.10	141.98	124.58	-16.173	-8,250.28	783.43	2,730.63	2,601.54	129.09	21.153				
22,300.00	13,092.00	18,808.00	10,913.10	143.40	124.58	-16.173	-8,250.28	783.43	2,787.52	2,660.06	127.46	21.869				
22,400.00	13,092.00	18,808.00	10,913.10	144.83	124.58	-16.173	-8,250.28	783.43	2,846.79	2,720.93	125.86	22.618				
22,500.00	13,092.00	18,808.00	10,913.10	146.26	124.58	-16.173	-8,250.28	783.43	2,908.29	2,783.99	124.30	23.398				
22,600.00	13,092.00	18,808.00	10,913.10	147.69	124.58	-16.173	-8,250.28	783.43	2,971.88	2,849.11	122.77	24.207				
22,700.00	13,092.00	18,808.00	10,913.10	149.11	124.58	-16.173	-8,250.28	783.43	3,037.44	2,916.14	121.29	25.042				
22,728.24	13,092.00	18,808.00	10,913.10	149.52	124.58	-16.173	-8,250.28	783.43	3,056.29	2,935.40	120.88	25.283				

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





## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com - 404H - OH / 68222 - Surveys (H&P 474)													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 176-MWD+HDGM													<b>Offset Well Error:</b> 1.00 usft
<b>Rule Assigned:</b>													<b>Warning</b>
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	90.620	-14.64	1,352.15	1,352.24				
100.00	100.00	99.15	101.15	1.08	1.01	90.631	-14.89	1,352.11	1,352.19	1,350.10	2.10	645.280	
200.00	200.00	199.51	201.51	1.60	1.06	90.663	-15.64	1,351.98	1,352.07	1,349.41	2.66	508.489	
268.23	268.23	266.24	268.23	1.87	1.16	90.691	-16.30	1,351.93	1,352.03	1,349.00	3.04	445.221	
300.00	300.00	297.30	299.30	2.01	1.22	90.705	-16.63	1,351.94	1,352.04	1,348.81	3.23	418.282	
400.00	400.00	392.63	394.62	2.35	1.45	90.752	-17.74	1,352.11	1,352.24	1,348.44	3.80	355.919	
500.00	500.00	488.66	490.64	2.65	1.71	90.795	-18.77	1,352.64	1,352.80	1,348.44	4.36	309.955	
600.00	600.00	591.10	593.07	2.93	2.02	90.831	-19.64	1,353.29	1,353.45	1,348.50	4.94	273.701	
700.00	700.00	690.88	692.85	3.18	2.33	90.870	-20.56	1,353.78	1,353.96	1,348.44	5.51	245.581	
800.00	800.00	784.97	786.93	3.41	2.64	90.896	-21.18	1,354.47	1,354.70	1,348.65	6.06	223.726	
900.00	900.00	889.16	891.11	3.64	2.99	90.936	-22.14	1,355.32	1,355.53	1,348.90	6.63	204.600	
1,000.00	1,000.00	995.31	997.26	3.85	3.35	90.979	-23.17	1,355.71	1,355.91	1,348.72	7.20	188.396	
1,100.00	1,100.00	1,095.03	1,096.98	4.05	3.69	91.018	-24.09	1,355.87	1,356.09	1,348.35	7.74	175.175	
1,200.00	1,200.00	1,190.96	1,192.90	4.24	4.03	91.061	-25.13	1,356.20	1,356.45	1,348.19	8.27	164.075	
1,300.00	1,300.00	1,284.47	1,286.40	4.43	4.35	91.119	-26.50	1,356.86	1,357.18	1,348.40	8.78	154.580	
1,400.00	1,400.00	1,380.63	1,382.53	4.61	4.69	91.199	-28.41	1,358.01	1,358.42	1,349.12	9.30	146.111	
1,500.00	1,500.00	1,481.73	1,483.60	4.78	5.05	91.290	-30.60	1,359.21	1,359.66	1,349.83	9.83	138.342	
1,600.00	1,599.98	1,583.97	1,585.81	4.98	5.41	-78.661	-32.85	1,360.33	1,360.46	1,350.15	10.31	131.985	
1,620.70	1,620.67	1,605.34	1,607.17	4.99	5.48	-78.674	-33.32	1,360.54	1,360.51	1,350.13	10.38	131.008	
1,700.00	1,699.89	1,688.18	1,689.99	5.07	5.78	-78.743	-35.13	1,361.22	1,360.55	1,349.81	10.74	126.677	
1,800.00	1,799.81	1,790.34	1,792.12	5.23	6.14	-78.832	-37.25	1,361.81	1,360.35	1,349.13	11.23	121.182	
1,900.00	1,899.72	1,887.83	1,889.60	5.41	6.49	-78.922	-39.16	1,362.39	1,360.17	1,348.47	11.70	116.238	
2,000.00	1,999.63	1,999.12	2,000.85	5.60	6.88	-79.020	-41.45	1,362.79	1,359.77	1,347.54	12.23	111.220	
2,100.00	2,099.54	2,100.30	2,102.02	5.80	7.24	-79.097	-43.81	1,362.60	1,358.82	1,346.11	12.71	106.879	
2,200.00	2,199.45	2,197.56	2,199.25	6.02	7.59	-79.168	-46.15	1,362.56	1,358.01	1,344.82	13.19	102.976	
2,300.00	2,299.36	2,310.14	2,311.78	6.24	7.99	-79.237	-49.15	1,362.01	1,356.77	1,343.06	13.71	98.933	
2,400.00	2,399.27	2,415.17	2,416.75	6.47	8.36	-79.286	-52.32	1,360.65	1,354.73	1,340.52	14.21	95.313	
2,500.00	2,499.18	2,510.42	2,511.96	6.72	8.70	-79.333	-55.14	1,359.55	1,352.82	1,338.14	14.68	92.160	
2,600.00	2,599.10	2,603.36	2,604.85	6.96	9.03	-79.381	-57.85	1,358.84	1,351.32	1,336.18	15.14	89.270	
2,700.00	2,699.01	2,693.61	2,695.07	7.22	9.35	-79.432	-60.38	1,358.75	1,350.47	1,334.88	15.59	86.641	
2,800.00	2,798.92	2,791.05	2,792.48	7.48	9.70	-79.497	-62.90	1,359.28	1,350.26	1,334.20	16.06	84.065	
2,900.00	2,898.83	2,895.51	2,896.89	7.74	10.07	-79.564	-65.65	1,359.46	1,349.69	1,333.13	16.56	81.492	
3,000.00	2,998.74	3,001.03	3,002.38	8.01	10.45	-79.622	-68.66	1,359.50	1,348.99	1,331.92	17.07	79.045	
3,100.00	3,098.65	3,109.10	3,110.37	8.28	10.84	-79.644	-72.60	1,358.82	1,347.62	1,330.04	17.58	76.662	
3,200.00	3,198.56	3,202.14	3,203.34	8.56	11.18	-79.652	-76.28	1,358.13	1,346.15	1,328.11	18.04	74.624	
3,300.00	3,298.47	3,291.91	3,293.03	8.84	11.50	-79.664	-79.71	1,358.13	1,345.42	1,326.93	18.49	72.775	
3,400.00	3,398.39	3,399.75	3,400.80	9.13	11.89	-79.679	-83.82	1,358.43	1,344.98	1,325.98	19.00	70.785	
3,500.00	3,498.30	3,530.98	3,531.91	9.41	12.36	-79.688	-89.04	1,356.60	1,342.84	1,323.25	19.59	68.547	
3,600.00	3,598.21	3,640.40	3,641.22	9.70	12.75	-79.726	-92.67	1,353.31	1,339.08	1,318.99	20.10	66.627	
3,700.00	3,698.12	3,738.09	3,738.79	9.99	13.09	-79.744	-96.29	1,350.19	1,335.16	1,314.59	20.57	64.911	
3,800.00	3,798.03	3,834.19	3,834.77	10.29	13.44	-79.747	-100.18	1,347.40	1,331.52	1,310.49	21.04	63.293	
3,900.00	3,897.94	3,924.54	3,925.01	10.58	13.76	-79.740	-104.07	1,345.08	1,328.24	1,306.75	21.49	61.812	
4,000.00	3,997.85	4,008.88	4,009.27	10.88	14.06	-79.734	-107.70	1,343.88	1,326.08	1,304.16	21.92	60.499	
4,100.00	4,097.76	4,099.46	4,099.75	11.18	14.39	-79.728	-111.59	1,343.48	1,324.90	1,302.53	22.37	59.224	
4,200.00	4,197.68	4,197.74	4,197.95	11.48	14.75	-79.729	-115.65	1,343.37	1,324.05	1,301.20	22.85	57.944	
4,300.00	4,297.59	4,295.21	4,295.36	11.78	15.10	-79.743	-119.36	1,343.42	1,323.37	1,300.05	23.33	56.734	
4,400.00	4,397.50	4,391.40	4,391.48	12.08	15.45	-79.759	-123.00	1,343.68	1,322.90	1,299.11	23.80	55.592	
4,461.09	4,458.53	4,448.60	4,448.63	12.27	15.66	-79.765	-125.21	1,344.01	1,322.81	1,298.73	24.08	54.938	
4,500.00	4,497.41	4,484.42	4,484.42	12.39	15.79	-79.770	-126.59	1,344.32	1,322.86	1,298.60	24.25	54.540	
4,600.00	4,597.32	4,582.01	4,581.94	12.69	16.14	-79.796	-130.04	1,345.51	1,323.34	1,298.61	24.73	53.513	
4,700.00	4,697.23	4,693.50	4,693.35	13.00	16.54	-79.813	-134.28	1,346.30	1,323.32	1,298.06	25.26	52.397	
4,800.00	4,797.14	4,790.71	4,790.48	13.31	16.89	-79.813	-138.31	1,346.46	1,322.76	1,297.03	25.73	51.410	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com - 404H - OH / 68222 - Surveys (H&P 474)												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 176-MWD+HDGM												<b>Offset Well Error:</b>	1.00 usft
<b>Reference</b>												<b>Rule Assigned:</b>	
<b>Offset</b>												<b>Warning</b>	
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
							<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
4,826.02	4,823.13	4,813.54	4,813.28	13.39	16.98	-79.815	-139.21	1,346.60	1,322.73	1,296.88	25.84	51.181	
4,900.00	4,897.05	4,877.01	4,876.71	13.62	17.21	-79.821	-141.69	1,347.31	1,323.01	1,296.85	26.16	50.569	
5,000.00	4,996.97	4,965.23	4,964.82	13.92	17.52	-79.809	-145.64	1,349.12	1,324.32	1,297.72	26.60	49.784	
5,100.00	5,096.88	5,090.94	5,090.34	14.23	17.98	-79.758	-152.04	1,351.68	1,325.79	1,298.60	27.19	48.766	
5,200.00	5,196.79	5,224.07	5,223.33	14.55	18.46	-79.748	-157.78	1,350.31	1,323.93	1,296.15	27.79	47.646	
5,300.00	5,296.70	5,322.88	5,322.05	14.86	18.82	-79.759	-161.61	1,348.34	1,321.21	1,292.94	28.26	46.745	
5,400.00	5,396.61	5,420.17	5,419.25	15.17	19.17	-79.773	-165.32	1,346.56	1,318.65	1,289.91	28.74	45.887	
5,500.00	5,496.52	5,518.68	5,517.67	15.48	19.52	-79.786	-169.09	1,344.91	1,316.24	1,287.03	29.21	45.056	
5,600.00	5,596.43	5,617.76	5,616.67	15.79	19.88	-79.799	-172.90	1,343.34	1,313.93	1,284.23	29.69	44.251	
5,700.00	5,696.34	5,716.95	5,715.78	16.11	20.24	-79.813	-176.68	1,341.82	1,311.65	1,281.48	30.17	43.473	
5,800.00	5,796.26	5,815.56	5,814.31	16.42	20.59	-79.835	-180.27	1,340.41	1,309.49	1,278.84	30.65	42.726	
5,900.00	5,896.17	5,910.51	5,909.20	16.74	20.94	-79.868	-183.43	1,339.18	1,307.46	1,276.35	31.11	42.026	
6,000.00	5,996.08	5,999.85	5,998.49	17.05	21.26	-79.904	-186.33	1,338.64	1,306.13	1,274.58	31.55	41.394	
6,100.00	6,095.99	6,092.88	6,091.47	17.37	21.60	-79.934	-189.50	1,338.81	1,305.57	1,273.56	32.01	40.787	
6,200.00	6,195.90	6,192.21	6,190.74	17.68	21.96	-79.969	-192.83	1,339.14	1,305.17	1,272.68	32.49	40.174	
6,300.00	6,295.81	6,289.12	6,287.59	18.00	22.31	-80.006	-195.99	1,339.64	1,304.95	1,272.00	32.96	39.596	
6,349.60	6,345.37	6,337.40	6,335.85	18.16	22.48	-80.026	-197.55	1,339.97	1,304.93	1,271.74	33.19	39.317	
6,400.00	6,395.72	6,386.69	6,385.11	18.32	22.66	-80.046	-199.14	1,340.35	1,304.95	1,271.52	33.43	39.038	
6,500.00	6,495.63	6,485.13	6,483.50	18.63	23.01	-80.086	-202.30	1,341.23	1,305.11	1,271.21	33.90	38.498	
6,600.00	6,595.55	6,584.37	6,582.69	18.95	23.37	-80.136	-205.28	1,342.19	1,305.34	1,270.97	34.38	37.973	
6,700.00	6,695.46	6,683.27	6,681.54	19.27	23.73	-80.197	-208.00	1,343.20	1,305.64	1,270.80	34.85	37.467	
6,800.00	6,795.37	6,783.87	6,782.11	19.59	24.09	-80.273	-210.43	1,344.29	1,306.00	1,270.68	35.32	36.972	
6,900.00	6,895.28	6,883.96	6,882.17	19.91	24.45	-80.357	-212.67	1,345.29	1,306.28	1,270.48	35.80	36.491	
7,000.00	6,995.19	6,992.42	6,990.61	20.23	24.83	-80.462	-214.77	1,346.13	1,306.35	1,270.05	36.30	35.989	
7,100.00	7,095.10	7,097.01	7,095.18	20.54	25.21	-80.592	-216.17	1,346.30	1,305.79	1,269.01	36.78	35.499	
7,200.00	7,195.01	7,195.00	7,193.17	20.86	25.56	-80.725	-217.21	1,346.35	1,305.15	1,267.91	37.24	35.043	
7,300.00	7,294.92	7,290.00	7,288.16	21.18	25.90	-80.854	-218.20	1,346.64	1,304.78	1,267.08	37.69	34.616	
7,399.86	7,394.70	7,387.93	7,386.09	21.50	26.25	-80.985	-219.29	1,347.22	1,304.69	1,266.54	38.15	34.199	
7,400.00	7,394.84	7,388.07	7,386.22	21.50	26.25	-80.985	-219.29	1,347.23	1,304.69	1,266.53	38.15	34.198	
7,500.00	7,494.75	7,486.08	7,484.22	21.82	26.60	-81.114	-220.42	1,347.97	1,304.76	1,266.16	38.61	33.796	
7,600.00	7,594.66	7,583.73	7,581.86	22.14	26.94	-81.241	-221.59	1,348.85	1,305.00	1,265.94	39.06	33.408	
7,700.00	7,694.57	7,679.78	7,677.90	22.46	27.29	-81.357	-222.90	1,350.02	1,305.54	1,266.03	39.51	33.042	
7,800.00	7,794.48	7,787.79	7,785.90	22.78	27.66	-81.510	-223.91	1,351.07	1,305.86	1,265.87	40.00	32.649	
7,900.00	7,894.39	7,890.49	7,888.59	23.10	28.01	-81.721	-223.36	1,351.54	1,305.72	1,265.28	40.44	32.288	
7,962.82	7,957.15	7,951.26	7,949.36	23.31	28.20	-81.855	-222.82	1,351.84	1,305.67	1,264.97	40.70	32.080	
8,000.00	7,994.30	7,987.23	7,985.33	23.42	28.32	-81.934	-222.52	1,352.06	1,305.69	1,264.83	40.85	31.960	
8,100.00	8,094.21	8,086.55	8,084.65	23.75	28.65	-82.147	-221.79	1,352.80	1,305.87	1,264.59	41.28	31.635	
8,200.00	8,194.13	8,189.87	8,187.96	24.07	28.99	-82.356	-221.29	1,353.40	1,305.91	1,264.19	41.72	31.300	
8,300.00	8,294.04	8,289.39	8,287.48	24.39	29.32	-82.550	-221.03	1,353.81	1,305.78	1,263.63	42.15	30.977	
8,316.12	8,310.14	8,304.95	8,303.04	24.44	29.37	-82.580	-220.97	1,353.89	1,305.77	1,263.55	42.22	30.927	
8,400.00	8,393.95	8,388.28	8,386.37	24.71	29.65	-82.750	-220.57	1,354.36	1,305.82	1,263.24	42.58	30.667	
8,500.00	8,493.86	8,487.62	8,485.70	25.03	29.97	-82.960	-219.90	1,354.91	1,305.88	1,262.87	43.01	30.364	
8,600.00	8,593.77	8,586.57	8,584.65	25.35	30.30	-83.170	-219.23	1,355.53	1,306.04	1,262.60	43.43	30.070	
8,700.00	8,693.68	8,684.74	8,682.82	25.67	30.63	-83.368	-218.78	1,356.25	1,306.30	1,262.44	43.86	29.782	
8,800.00	8,793.59	8,781.81	8,779.88	26.00	30.96	-83.558	-218.44	1,357.14	1,306.75	1,262.46	44.29	29.505	
8,900.00	8,893.50	8,880.07	8,878.14	26.32	31.29	-83.747	-218.16	1,358.23	1,307.41	1,262.69	44.72	29.233	
9,000.00	8,993.42	8,979.50	8,977.56	26.64	31.63	-83.939	-217.88	1,359.40	1,308.16	1,263.00	45.16	28.966	
9,100.00	9,093.33	9,078.56	9,076.61	26.96	31.97	-84.132	-217.54	1,360.61	1,308.96	1,263.37	45.60	28.706	
9,200.00	9,193.24	9,192.07	9,190.12	27.29	32.36	-84.354	-217.15	1,361.58	1,309.44	1,263.36	46.08	28.415	
9,300.00	9,293.15	9,312.69	9,310.72	27.61	32.76	-84.598	-216.72	1,360.33	1,307.93	1,261.35	46.58	28.078	
9,400.00	9,393.06	9,402.74	9,400.78	27.93	33.06	-84.773	-216.58	1,359.48	1,306.61	1,259.62	46.99	27.809	
9,500.00	9,492.97	9,496.18	9,494.21	28.25	33.38	-84.959	-216.29	1,359.16	1,305.91	1,258.51	47.40	27.551	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com - 404H - OH / 68222 - Surveys (H&P 474)													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 176-MWD+HDCM													<b>Offset Well Error:</b> 1.00 usft
<b>Rule Assigned:</b>													
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
9,600.00	9,592.88	9,594.72	9,592.75	28.58	33.72	-85.120	-216.73	1,359.24	1,305.59	1,257.74	47.84	27.288	
9,700.00	9,692.79	9,696.40	9,694.42	28.90	34.09	-85.257	-217.90	1,359.24	1,305.12	1,256.82	48.31	27.016	
9,800.00	9,792.71	9,795.04	9,793.06	29.22	34.44	-85.417	-218.40	1,359.20	1,304.70	1,255.94	48.76	26.757	
9,900.00	9,892.62	9,891.69	9,889.71	29.55	34.78	-85.587	-218.57	1,359.29	1,304.44	1,255.23	49.21	26.510	
9,927.97	9,920.56	9,918.36	9,916.38	29.64	34.88	-85.632	-218.65	1,359.37	1,304.43	1,255.10	49.33	26.444	
10,000.00	9,992.53	9,987.69	9,985.71	29.87	35.12	-85.747	-218.92	1,359.69	1,304.51	1,254.86	49.65	26.276	
10,100.00	10,092.44	10,094.49	10,092.51	30.19	35.50	-85.924	-219.33	1,360.17	1,304.62	1,254.49	50.12	26.028	
10,200.00	10,192.35	10,228.89	10,226.88	30.52	35.98	-86.106	-221.01	1,358.74	1,303.18	1,252.49	50.69	25.706	
10,300.00	10,292.26	10,360.44	10,358.28	30.84	36.44	-86.203	-224.88	1,353.84	1,298.83	1,247.58	51.25	25.342	
10,400.00	10,392.17	10,456.09	10,453.75	31.16	36.78	-86.242	-228.54	1,349.16	1,293.29	1,241.59	51.70	25.016	
10,500.00	10,492.08	10,544.68	10,542.23	31.49	37.09	-86.310	-231.11	1,345.72	1,288.82	1,236.70	52.12	24.728	
10,600.00	10,592.00	10,634.22	10,631.68	31.81	37.40	-86.384	-233.58	1,342.72	1,284.93	1,232.39	52.54	24.455	
10,700.00	10,691.91	10,731.24	10,728.67	32.13	37.73	-86.558	-234.04	1,340.23	1,282.06	1,229.08	52.98	24.201	
10,800.00	10,791.82	10,859.56	10,856.89	32.46	38.17	-86.836	-233.82	1,335.13	1,277.90	1,224.40	53.50	23.886	
10,900.00	10,891.73	10,947.44	10,944.66	32.78	38.47	-87.013	-234.09	1,330.85	1,272.82	1,218.91	53.90	23.613	
11,000.00	10,991.64	11,037.99	11,035.15	33.11	38.78	-87.173	-234.76	1,327.57	1,268.91	1,214.59	54.32	23.360	
11,100.00	11,091.55	11,134.75	11,131.85	33.43	39.12	-87.347	-235.38	1,324.45	1,265.43	1,210.67	54.75	23.112	
11,200.00	11,191.46	11,209.76	11,206.84	33.75	39.37	-87.494	-235.55	1,322.57	1,262.79	1,207.68	55.11	22.913	
11,244.41	11,235.83	11,239.37	11,236.45	33.90	39.47	-87.554	-235.49	1,322.37	1,262.43	1,207.17	55.26	22.846	
11,300.00	11,291.37	11,286.72	11,283.80	34.08	39.63	-87.653	-235.28	1,322.57	1,262.58	1,207.11	55.47	22.761	
11,400.00	11,391.29	11,392.71	11,389.79	34.40	40.00	-87.862	-235.05	1,323.11	1,262.96	1,207.03	55.94	22.579	
11,500.00	11,491.20	11,504.78	11,501.85	34.73	40.39	-88.029	-236.17	1,322.73	1,262.33	1,205.89	56.43	22.369	
11,600.00	11,591.11	11,614.31	11,611.36	35.05	40.78	-88.190	-237.39	1,321.59	1,261.00	1,204.08	56.92	22.154	
11,700.00	11,691.02	11,708.06	11,705.10	35.38	41.10	-88.392	-237.10	1,320.15	1,259.40	1,202.06	57.34	21.964	
11,800.00	11,790.93	11,812.01	11,809.05	35.70	41.45	-88.623	-236.59	1,318.84	1,258.12	1,200.33	57.79	21.769	
11,900.00	11,890.84	11,902.99	11,900.02	36.03	41.76	-88.802	-236.66	1,317.80	1,256.89	1,198.67	58.21	21.591	
11,907.54	11,898.38	11,909.74	11,906.77	36.05	41.78	-88.815	-236.67	1,317.75	1,256.83	1,198.58	58.24	21.578	
12,000.00	11,990.80	11,995.26	11,992.29	36.33	42.07	-88.921	-236.43	1,317.38	1,256.42	1,197.80	58.62	21.434	
12,028.24	12,019.04	12,023.34	12,020.36	36.36	42.17	81.048	-236.18	1,317.32	1,256.40	1,197.68	58.72	21.398	
12,100.00	12,090.80	12,098.47	12,095.48	36.36	42.42	80.990	-234.96	1,316.90	1,256.19	1,197.23	58.96	21.307	
12,189.76	12,180.56	12,183.57	12,180.56	36.36	42.71	80.907	-233.21	1,316.40	1,255.95	1,196.71	59.24	21.199 CC	
12,200.00	12,190.80	12,192.71	12,189.70	36.36	42.74	80.910	-233.26	1,316.41	1,255.96	1,196.68	59.28	21.188 ES	
12,300.00	12,290.80	12,282.00	12,278.44	36.36	43.06	81.274	-241.07	1,318.10	1,256.48	1,196.87	59.61	21.078	
12,400.00	12,390.80	12,344.69	12,337.47	36.37	43.29	82.217	-261.36	1,322.49	1,258.98	1,199.09	59.89	21.022	
12,500.00	12,490.80	12,394.67	12,382.05	36.37	43.48	83.236	-283.22	1,328.06	1,265.29	1,205.14	60.15	21.036	
12,528.24	12,519.04	12,406.57	12,392.31	36.37	43.52	83.506	-289.02	1,329.69	1,267.91	1,207.70	60.21	21.058	
12,550.00	12,540.79	12,424.00	12,407.05	36.40	43.59	-95.312	-297.94	1,332.33	1,270.30	1,209.99	60.31	21.062	
12,600.00	12,590.61	12,424.00	12,407.05	36.63	43.59	-94.648	-297.94	1,332.33	1,276.91	1,216.54	60.37	21.153	
12,650.00	12,639.89	12,450.10	12,428.44	36.95	43.68	-93.311	-312.15	1,336.94	1,285.04	1,224.47	60.57	21.215	
12,700.00	12,688.24	12,472.00	12,445.75	37.29	43.76	-91.959	-324.77	1,341.50	1,294.85	1,234.08	60.77	21.306	
12,750.00	12,735.30	12,485.47	12,456.12	37.62	43.81	-90.638	-332.80	1,344.58	1,305.98	1,245.04	60.94	21.430	
12,800.00	12,780.72	12,519.00	12,481.29	37.96	43.94	-89.027	-353.29	1,352.99	1,318.45	1,257.22	61.23	21.532	
12,850.00	12,824.15	12,519.00	12,481.29	38.29	43.94	-87.662	-353.29	1,352.99	1,331.62	1,270.25	61.37	21.699	
12,900.00	12,865.26	12,553.38	12,506.02	38.60	44.06	-86.035	-375.22	1,362.45	1,345.53	1,283.83	61.70	21.809	
12,950.00	12,903.73	12,688.93	12,593.08	38.90	44.58	-83.989	-473.30	1,395.67	1,358.34	1,295.69	62.64	21.684	
13,000.00	12,939.27	12,725.99	12,613.96	39.18	44.73	-82.650	-503.02	1,403.03	1,368.99	1,305.95	63.04	21.717	
13,050.00	12,971.62	12,755.00	12,629.35	39.43	44.85	-81.431	-526.86	1,409.08	1,379.84	1,316.44	63.40	21.765	
13,100.00	13,000.52	12,755.00	12,629.35	39.65	44.85	-80.277	-526.86	1,409.08	1,391.23	1,327.63	63.60	21.874	
13,150.00	13,025.76	12,779.81	12,641.41	39.85	44.95	-79.103	-547.74	1,414.88	1,402.76	1,338.76	64.00	21.919	
13,200.00	13,047.14	12,803.00	12,651.33	40.02	45.04	-77.959	-567.74	1,421.13	1,415.07	1,350.65	64.42	21.967	
13,250.00	13,064.50	12,803.00	12,651.33	40.15	45.04	-76.714	-567.74	1,421.13	1,427.44	1,362.67	64.77	22.039	
13,300.00	13,077.71	12,803.00	12,651.33	40.26	45.04	-75.404	-567.74	1,421.13	1,440.47	1,375.29	65.18	22.099	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com - 404H - OH / 68222 - Surveys (H&P 474)												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 176-MWD+HDGM												<b>Offset Well Error:</b>	1.00 usft
<b>Reference</b>												<b>Rule Assigned:</b>	
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference</b>	<b>Offset</b>	<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
							<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
13,350.00	13,086.67	12,822.74	12,658.69	40.33	45.12	-74.303	-585.00	1,427.24	1,453.36	1,387.66	65.71	22.119	
13,400.00	13,091.30	12,850.00	12,667.16	40.38	45.23	-73.362	-608.93	1,437.16	1,467.25	1,400.97	66.28	22.137	
13,428.24	13,092.00	12,850.00	12,667.16	40.39	45.23	-72.642	-608.93	1,437.16	1,474.52	1,407.95	66.57	22.150	
13,500.00	13,092.00	12,850.00	12,667.16	40.40	45.23	-72.642	-608.93	1,437.16	1,494.75	1,427.39	67.37	22.189	
13,600.00	13,092.00	12,898.00	12,678.88	40.43	45.42	-73.315	-651.14	1,456.76	1,527.30	1,458.70	68.61	22.261	
13,700.00	13,092.00	13,492.00	12,691.95	40.46	48.22	-74.995	-1,222.82	1,576.36	1,545.63	1,472.97	72.66	21.272	
13,800.00	13,092.00	13,492.00	12,691.95	40.50	48.22	-74.995	-1,222.82	1,576.36	1,551.39	1,478.03	73.36	21.148	
13,900.00	13,092.00	13,580.54	12,688.13	40.53	48.75	-74.931	-1,310.88	1,584.76	1,560.75	1,485.82	74.93	20.830	
14,000.00	13,092.00	13,746.14	12,686.11	40.58	49.80	-74.976	-1,475.84	1,598.66	1,568.19	1,490.92	77.28	20.293	
14,100.00	13,092.00	13,866.00	12,686.05	40.63	50.59	-75.024	-1,595.53	1,605.03	1,572.28	1,493.01	79.27	19.834	
14,200.00	13,092.00	13,989.51	12,685.91	40.69	51.47	-75.055	-1,718.93	1,610.08	1,575.24	1,493.87	81.37	19.359	
14,300.00	13,092.00	14,155.34	12,685.81	40.76	52.70	-75.087	-1,884.64	1,615.47	1,578.52	1,494.54	83.98	18.797	
14,400.00	13,092.00	14,245.00	12,684.41	40.85	53.38	-75.021	-1,974.28	1,614.52	1,577.01	1,491.21	85.80	18.379	
14,500.00	13,092.00	14,339.00	12,683.01	40.95	54.13	-74.962	-2,068.27	1,614.42	1,576.37	1,488.65	87.72	17.971	
14,506.36	13,092.00	14,339.00	12,683.01	40.96	54.13	-74.962	-2,068.27	1,614.42	1,576.35	1,488.58	87.77	17.959	
14,600.00	13,092.00	14,437.06	12,681.53	41.10	54.93	-74.907	-2,166.31	1,614.99	1,576.38	1,486.67	89.71	17.571	
14,636.66	13,092.00	14,469.08	12,681.09	41.16	55.21	-74.890	-2,198.33	1,615.14	1,576.34	1,485.93	90.42	17.434	
14,700.00	13,092.00	14,528.00	12,681.14	41.29	55.71	-74.893	-2,257.24	1,615.86	1,576.48	1,484.80	91.67	17.197	
14,800.00	13,092.00	14,692.16	12,681.10	41.57	57.12	-74.836	-2,421.31	1,611.59	1,571.96	1,477.50	94.47	16.641	
14,900.00	13,092.00	14,842.78	12,682.30	41.99	58.46	-74.786	-2,571.67	1,603.41	1,565.09	1,467.98	97.12	16.116	
15,000.00	13,092.00	14,905.00	12,683.85	42.60	59.02	-74.817	-2,633.84	1,601.55	1,560.11	1,461.25	98.87	15.780	
15,072.01	13,092.00	14,905.00	12,683.85	43.17	59.02	-74.817	-2,633.84	1,601.55	1,558.45	1,458.82	99.63	15.643	
15,100.00	13,092.00	14,905.00	12,683.85	43.42	59.02	-74.817	-2,633.84	1,601.55	1,558.70	1,458.79	99.91	15.601	
15,200.00	13,092.00	15,217.20	12,691.74	44.43	62.03	-75.035	-2,945.16	1,597.97	1,560.85	1,456.41	104.44	14.945	
15,300.00	13,092.00	15,282.00	12,693.91	45.56	62.65	-75.051	-3,009.66	1,592.11	1,550.28	1,443.95	106.33	14.580	
15,400.00	13,092.00	15,331.99	12,695.47	46.76	63.15	-75.072	-3,059.52	1,588.97	1,542.41	1,434.32	108.09	14.269	
15,500.00	13,092.00	15,376.00	12,696.63	48.01	63.59	-75.095	-3,103.49	1,587.42	1,537.68	1,427.91	109.77	14.008	
15,586.71	13,092.00	15,421.22	12,697.94	49.13	64.06	-75.137	-3,148.69	1,587.34	1,536.28	1,424.98	111.30	13.803	
15,600.00	13,092.00	15,427.11	12,698.14	49.30	64.12	-75.145	-3,154.57	1,587.46	1,536.31	1,424.80	111.52	13.776	
15,700.00	13,092.00	15,471.81	12,699.90	50.61	64.58	-75.223	-3,199.19	1,589.42	1,538.61	1,425.46	113.15	13.598	
15,800.00	13,092.00	15,565.00	12,700.50	51.93	65.58	-75.283	-3,292.23	1,594.33	1,542.63	1,427.20	115.43	13.364	
15,900.00	13,092.00	15,636.78	12,698.71	53.27	66.35	-75.250	-3,363.87	1,598.35	1,547.84	1,430.44	117.40	13.185	
16,000.00	13,092.00	15,715.25	12,697.27	54.61	67.21	-75.250	-3,442.08	1,604.56	1,555.00	1,435.53	119.47	13.016	
16,100.00	13,092.00	15,821.92	12,695.80	55.97	68.39	-75.274	-3,548.34	1,613.77	1,562.78	1,440.80	121.99	12.811	
16,200.00	13,092.00	15,937.16	12,696.71	57.33	69.67	-75.383	-3,663.19	1,623.11	1,569.49	1,444.82	124.68	12.588	
16,300.00	13,092.00	16,120.12	12,701.17	58.69	71.75	-75.629	-3,845.71	1,634.57	1,574.76	1,446.40	128.36	12.269	
16,400.00	13,092.00	16,252.69	12,701.81	60.06	73.24	-75.647	-3,978.26	1,635.35	1,574.13	1,442.91	131.21	11.997	
16,500.00	13,092.00	16,336.06	12,700.14	61.44	74.19	-75.580	-4,061.61	1,635.18	1,573.51	1,440.06	133.45	11.791	
16,500.18	13,092.00	16,336.18	12,700.14	61.44	74.20	-75.580	-4,061.74	1,635.18	1,573.51	1,440.05	133.46	11.791	
16,600.00	13,092.00	16,414.00	12,700.07	62.81	75.09	-75.584	-4,139.53	1,636.68	1,574.42	1,438.77	135.65	11.607	
16,700.00	13,092.00	16,499.97	12,701.75	64.20	76.10	-75.664	-4,225.43	1,639.82	1,576.49	1,438.51	137.98	11.425	
16,800.00	13,092.00	16,642.66	12,701.70	65.58	77.77	-75.665	-4,368.08	1,641.45	1,576.35	1,435.32	141.03	11.177	
16,822.77	13,092.00	16,658.87	12,701.60	65.90	77.96	-75.660	-4,384.29	1,641.54	1,576.30	1,434.78	141.52	11.138	
16,900.00	13,092.00	16,720.77	12,701.66	66.97	78.69	-75.667	-4,446.18	1,642.59	1,576.80	1,433.53	143.27	11.006	
17,000.00	13,092.00	16,829.33	12,701.17	68.36	79.98	-75.657	-4,554.73	1,644.44	1,577.64	1,431.75	145.89	10.814	
17,100.00	13,092.00	16,920.37	12,701.37	69.75	81.07	-75.666	-4,645.76	1,645.54	1,577.87	1,429.56	148.31	10.639	
17,200.00	13,092.00	16,983.53	12,702.12	71.14	81.83	-75.707	-4,708.87	1,647.77	1,580.06	1,429.70	150.36	10.509	
17,300.00	13,092.00	17,095.94	12,702.52	72.54	83.20	-75.754	-4,821.18	1,652.58	1,583.21	1,430.10	153.11	10.340	
17,400.00	13,092.00	17,236.54	12,702.20	73.94	84.91	-75.754	-4,961.74	1,655.19	1,583.99	1,427.78	156.21	10.140	
17,500.00	13,092.00	17,428.60	12,699.65	75.34	87.24	-75.610	-5,153.70	1,650.92	1,581.39	1,421.72	159.67	9.904	
17,600.00	13,092.00	17,535.15	12,698.25	76.74	88.52	-75.493	-5,260.04	1,644.58	1,575.00	1,412.77	162.23	9.709	
17,700.00	13,092.00	17,585.47	12,697.28	78.14	89.14	-75.433	-5,310.29	1,642.17	1,570.12	1,405.81	164.31	9.556	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com - 404H - OH / 68222 - Surveys (H&P 474)												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 176-MWD+H2GM												<b>Offset Well Error:</b>	1.00 usft
<b>Reference</b>												<b>Rule Assigned:</b>	
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Semi Major Axis Reference (usft)</b>	<b>Semi Major Axis Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
							<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
17,800.00	13,092.00	17,643.00	12,696.56	79.55	89.85	-75.402	-5,367.81	1,642.14	1,568.99	1,402.60	166.39	9.430	
17,806.26	13,092.00	17,643.00	12,696.56	79.63	89.85	-75.402	-5,367.81	1,642.14	1,568.98	1,402.51	166.47	9.425	
17,900.00	13,092.00	17,676.36	12,696.17	80.95	90.27	-75.396	-5,401.15	1,643.33	1,571.07	1,403.04	168.04	9.350	
18,000.00	13,092.00	17,737.00	12,694.95	82.36	91.03	-75.383	-5,461.65	1,647.18	1,576.55	1,406.58	169.97	9.276	
18,100.00	13,092.00	17,875.07	12,693.24	83.76	92.79	-75.381	-5,599.49	1,654.82	1,581.13	1,407.91	173.23	9.127	
18,200.00	13,092.00	18,066.25	12,692.71	85.17	95.21	-75.390	-5,790.53	1,659.64	1,583.21	1,406.12	177.09	8.940	
18,300.00	13,092.00	18,174.74	12,690.74	86.58	96.58	-75.295	-5,898.98	1,657.84	1,581.13	1,401.39	179.74	8.797	
18,400.00	13,092.00	18,318.44	12,691.11	87.99	98.39	-75.257	-6,042.61	1,653.70	1,577.34	1,394.59	182.74	8.631	
18,500.00	13,092.00	18,399.00	12,691.95	89.40	99.40	-75.256	-6,123.13	1,651.22	1,573.09	1,387.91	185.18	8.495	
18,600.00	13,092.00	18,475.08	12,691.78	90.81	100.37	-75.229	-6,199.18	1,649.70	1,570.21	1,382.65	187.55	8.372	
18,700.00	13,092.00	18,562.11	12,689.44	92.23	101.49	-75.124	-6,286.17	1,648.14	1,568.23	1,378.25	189.98	8.255	
18,800.00	13,092.00	18,687.62	12,687.53	93.64	103.10	-75.026	-6,411.64	1,646.12	1,566.21	1,373.38	192.83	8.122	
18,900.00	13,092.00	18,758.45	12,687.92	95.06	104.01	-75.026	-6,482.46	1,645.32	1,564.02	1,368.86	195.15	8.014	
19,000.00	13,092.00	18,850.16	12,687.71	96.47	105.19	-75.010	-6,574.16	1,645.29	1,563.10	1,365.41	197.69	7.907	
19,052.16	13,092.00	18,889.65	12,687.51	97.21	105.71	-75.000	-6,613.66	1,645.37	1,562.81	1,363.91	198.90	7.857	
19,100.00	13,092.00	18,918.54	12,687.35	97.89	106.08	-74.995	-6,642.54	1,645.78	1,563.10	1,363.20	199.91	7.819	
19,200.00	13,092.00	18,986.31	12,686.92	99.30	106.97	-74.996	-6,710.27	1,648.09	1,565.53	1,363.47	202.06	7.748	
19,300.00	13,092.00	19,075.10	12,686.47	100.72	108.14	-75.010	-6,798.97	1,652.06	1,569.07	1,364.52	204.55	7.671	
19,400.00	13,092.00	19,154.00	12,686.34	102.14	109.18	-75.042	-6,877.73	1,656.76	1,573.89	1,367.04	206.86	7.609	
19,500.00	13,092.00	19,313.38	12,684.09	103.55	111.28	-74.992	-7,036.99	1,661.40	1,575.44	1,364.95	210.49	7.485	
19,600.00	13,092.00	19,385.77	12,682.69	104.97	112.24	-74.956	-7,109.35	1,663.46	1,577.79	1,365.08	212.71	7.418	
19,700.00	13,092.00	19,458.60	12,681.42	106.39	113.21	-74.939	-7,182.07	1,667.07	1,582.05	1,367.16	214.89	7.362	
19,800.00	13,092.00	19,669.39	12,681.98	107.81	116.01	-74.990	-7,392.60	1,672.42	1,583.43	1,364.19	219.24	7.222	
19,859.54	13,092.00	19,698.45	12,682.30	108.66	116.39	-74.999	-7,421.64	1,672.48	1,582.83	1,362.36	220.48	7.179	
19,900.00	13,092.00	19,723.00	12,682.91	109.23	116.72	-75.023	-7,446.18	1,673.07	1,583.09	1,361.73	221.36	7.152	
20,000.00	13,092.00	19,862.81	12,685.86	110.65	118.58	-75.135	-7,585.93	1,675.29	1,583.29	1,358.67	224.62	7.049	
20,100.00	13,092.00	19,986.05	12,686.00	112.07	120.21	-75.109	-7,709.15	1,673.21	1,580.63	1,353.11	227.52	6.947	
20,200.00	13,092.00	20,074.54	12,683.88	113.49	121.38	-75.006	-7,797.59	1,670.94	1,577.86	1,347.84	230.02	6.860	
20,300.00	13,092.00	20,178.51	12,680.93	114.91	122.75	-74.872	-7,901.49	1,668.75	1,575.64	1,342.99	232.64	6.773	
20,400.00	13,092.00	20,294.15	12,680.28	116.34	124.29	-74.813	-8,017.09	1,666.06	1,572.61	1,337.18	235.43	6.680	
20,500.00	13,092.00	20,385.00	12,680.89	117.76	125.49	-74.806	-8,107.91	1,663.94	1,569.26	1,331.24	238.02	6.593	
20,600.00	13,092.00	20,477.73	12,683.57	119.18	126.73	-74.881	-8,200.59	1,662.85	1,566.45	1,325.75	240.70	6.508	
20,686.31	13,092.00	20,525.00	12,685.89	120.41	127.37	-74.958	-8,247.80	1,662.71	1,564.78	1,322.15	242.63	6.449	
20,700.00	13,092.00	20,525.00	12,685.89	120.60	127.37	-74.958	-8,247.80	1,662.71	1,564.84	1,322.03	242.81	6.445	
20,800.00	13,092.00	20,525.00	12,685.89	122.03	127.37	-74.958	-8,247.80	1,662.71	1,568.91	1,325.26	243.65	6.439 SF	
20,900.00	13,092.00	20,525.00	12,685.89	123.45	127.37	-74.958	-8,247.80	1,662.71	1,579.30	1,335.66	243.64	6.482	
21,000.00	13,092.00	20,525.00	12,685.89	124.87	127.37	-74.958	-8,247.80	1,662.71	1,595.91	1,353.08	242.83	6.572	
21,100.00	13,092.00	20,525.00	12,685.89	126.30	127.37	-74.958	-8,247.80	1,662.71	1,618.54	1,377.28	241.27	6.708	
21,200.00	13,092.00	20,525.00	12,685.89	127.72	127.37	-74.958	-8,247.80	1,662.71	1,646.94	1,407.90	239.04	6.890	
21,300.00	13,092.00	20,525.00	12,685.89	129.15	127.37	-74.958	-8,247.80	1,662.71	1,680.82	1,444.58	236.24	7.115	
21,400.00	13,092.00	20,525.00	12,685.89	130.57	127.37	-74.958	-8,247.80	1,662.71	1,719.85	1,486.88	232.98	7.382	
21,500.00	13,092.00	20,525.00	12,685.89	132.00	127.37	-74.958	-8,247.80	1,662.71	1,763.70	1,534.36	229.34	7.690	
21,600.00	13,092.00	20,525.00	12,685.89	133.42	127.37	-74.958	-8,247.80	1,662.71	1,812.01	1,586.57	225.44	8.038	
21,700.00	13,092.00	20,525.00	12,685.89	134.85	127.37	-74.958	-8,247.80	1,662.71	1,864.43	1,643.08	221.36	8.423	
21,800.00	13,092.00	20,525.00	12,685.89	136.27	127.37	-74.958	-8,247.80	1,662.71	1,920.64	1,703.47	217.17	8.844	
21,900.00	13,092.00	20,525.00	12,685.89	137.70	127.37	-74.958	-8,247.80	1,662.71	1,980.30	1,767.36	212.94	9.300	
22,000.00	13,092.00	20,525.00	12,685.89	139.12	127.37	-74.958	-8,247.80	1,662.71	2,043.12	1,834.39	208.73	9.788	
22,100.00	13,092.00	20,525.00	12,685.89	140.55	127.37	-74.958	-8,247.80	1,662.71	2,108.81	1,904.24	204.57	10.308	
22,200.00	13,092.00	20,525.00	12,685.89	141.98	127.37	-74.958	-8,247.80	1,662.71	2,177.11	1,976.61	200.50	10.858	
22,300.00	13,092.00	20,525.00	12,685.89	143.40	127.37	-74.958	-8,247.80	1,662.71	2,247.79	2,051.23	196.55	11.436	
22,400.00	13,092.00	20,525.00	12,685.89	144.83	127.37	-74.958	-8,247.80	1,662.71	2,320.62	2,127.89	192.74	12.040	
22,500.00	13,092.00	20,525.00	12,685.89	146.26	127.37	-74.958	-8,247.80	1,662.71	2,395.42	2,206.35	189.06	12.670	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com - 404H - OH / 68222 - Surveys (H&P 474)													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 176-MWD+HDGM													<b>Offset Well Error:</b> 1.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Rule Assigned:</b>				<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
22,600.00	13,092.00	20,525.00	12,685.89	147.69	127.37	-74.958	-8,247.80	1,662.71	2,472.00	2,286.45	185.54	13.323	
22,700.00	13,092.00	20,525.00	12,685.89	149.11	127.37	-74.958	-8,247.80	1,662.71	2,550.20	2,368.02	182.18	13.998	
22,728.24	13,092.00	20,525.00	12,685.89	149.52	127.37	-74.958	-8,247.80	1,662.71	2,572.56	2,391.30	181.26	14.193	





## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com - 434H - OH / 68223 - Surveys (H&P 474)												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 176-MWD+HDGM												<b>Offset Well Error:</b>	1.00 usft
<b>Reference</b>	<b>Offset</b>	<b>Semi Major Axis</b>		<b>Highside</b>		<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum</b>	<b>Separation</b>	<b>Warning</b>	
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Separation (usft)</b>		
0.00	0.00	0.00	2.00	1.00	1.00	90.669	-15.09	1,292.13	1,292.22				
100.00	100.00	98.81	100.81	1.08	1.01	90.675	-15.22	1,292.10	1,292.19	1,290.10	2.10	616.676	
200.00	200.00	198.41	200.41	1.60	1.06	90.691	-15.59	1,292.01	1,292.11	1,289.45	2.66	486.293	
209.22	209.22	207.23	209.22	1.63	1.07	90.693	-15.62	1,292.01	1,292.11	1,289.40	2.70	477.931	
300.00	300.00	293.98	295.98	2.01	1.21	90.701	-15.80	1,292.14	1,292.25	1,289.03	3.22	401.273	
400.00	400.00	403.41	405.40	2.35	1.46	90.708	-15.97	1,292.05	1,292.16	1,288.35	3.81	338.821	
500.00	500.00	501.27	503.26	2.65	1.73	90.728	-16.42	1,291.72	1,291.82	1,287.44	4.38	294.638	
600.00	600.00	598.01	600.00	2.93	2.02	90.761	-17.15	1,291.55	1,291.67	1,286.72	4.95	261.088	
600.07	600.07	598.07	600.07	2.93	2.02	90.761	-17.15	1,291.55	1,291.67	1,286.72	4.95	261.069	
700.00	700.00	694.44	696.44	3.18	2.32	90.784	-17.68	1,291.74	1,291.87	1,286.37	5.50	234.743	
800.00	800.00	798.59	800.57	3.41	2.66	90.819	-18.47	1,291.91	1,292.04	1,285.97	6.08	212.572	
900.00	900.00	901.86	903.85	3.64	3.01	90.841	-18.97	1,291.65	1,291.80	1,285.15	6.64	194.424	
1,000.00	1,000.00	1,000.18	1,002.17	3.85	3.34	90.864	-19.46	1,291.39	1,291.54	1,284.35	7.19	179.677	
1,079.80	1,079.80	1,077.81	1,079.80	4.01	3.61	90.878	-19.79	1,291.32	1,291.47	1,283.86	7.61	169.603	
1,100.00	1,100.00	1,097.30	1,099.29	4.05	3.68	90.882	-19.89	1,291.32	1,291.48	1,283.75	7.72	167.237	
1,200.00	1,200.00	1,192.26	1,194.24	4.24	4.00	90.914	-20.60	1,291.52	1,291.70	1,283.45	8.24	156.698	
1,300.00	1,300.00	1,283.34	1,285.31	4.43	4.32	90.954	-21.53	1,292.18	1,292.44	1,283.70	8.74	147.845	
1,400.00	1,400.00	1,379.22	1,381.18	4.61	4.64	90.961	-21.71	1,293.59	1,293.91	1,284.66	9.25	139.957	
1,500.00	1,500.00	1,484.43	1,486.38	4.78	4.99	90.923	-20.86	1,294.89	1,295.13	1,285.36	9.77	132.565	
1,600.00	1,599.98	1,583.25	1,585.19	4.98	5.32	-79.153	-20.20	1,295.91	1,295.82	1,285.61	10.22	126.821	
1,620.70	1,620.67	1,603.05	1,605.00	4.99	5.38	-79.190	-20.08	1,296.14	1,295.92	1,285.63	10.29	125.990	
1,700.00	1,699.89	1,695.51	1,697.45	5.07	5.69	-79.394	-19.29	1,296.91	1,295.96	1,285.31	10.66	121.596	
1,800.00	1,799.81	1,806.84	1,808.76	5.23	6.07	-79.688	-17.26	1,296.58	1,294.88	1,283.72	11.15	116.112	
1,900.00	1,899.72	1,904.00	1,905.88	5.41	6.39	-79.974	-14.83	1,296.04	1,293.57	1,281.96	11.61	111.441	
2,000.00	1,999.63	2,000.65	2,002.51	5.60	6.72	-80.253	-12.53	1,295.73	1,292.53	1,280.47	12.06	107.146	
2,100.00	2,099.54	2,103.19	2,105.02	5.80	7.07	-80.530	-10.54	1,295.41	1,291.53	1,278.99	12.54	102.994	
2,200.00	2,199.45	2,223.70	2,225.52	6.02	7.48	-80.826	-8.90	1,294.24	1,289.94	1,276.86	13.08	98.642	
2,300.00	2,299.36	2,390.65	2,392.23	6.24	8.06	-81.287	-5.63	1,286.52	1,284.71	1,270.96	13.75	93.417	
2,400.00	2,399.27	2,505.70	2,506.86	6.47	8.46	-81.627	-3.07	1,277.07	1,275.86	1,261.59	14.27	89.435	
2,500.00	2,499.18	2,595.01	2,595.86	6.72	8.77	-81.878	-1.46	1,269.82	1,267.19	1,252.48	14.71	86.164	
2,600.00	2,599.10	2,701.21	2,701.76	6.96	9.14	-82.163	0.10	1,261.93	1,259.25	1,244.06	15.20	82.867	
2,700.00	2,699.01	2,814.93	2,814.96	7.22	9.54	-82.512	2.57	1,251.34	1,249.39	1,233.68	15.71	79.549	
2,800.00	2,798.92	2,937.56	2,936.95	7.48	9.98	-82.910	5.48	1,239.13	1,239.08	1,222.85	16.24	76.313	
2,900.00	2,898.83	3,029.98	3,028.76	7.74	10.32	-83.231	7.96	1,228.89	1,227.63	1,210.94	16.69	73.554	
3,000.00	2,998.74	3,137.12	3,135.23	8.01	10.71	-83.579	10.19	1,217.14	1,216.30	1,199.12	17.18	70.792	
3,100.00	3,098.65	3,240.45	3,237.86	8.28	11.08	-83.853	10.87	1,205.16	1,204.29	1,186.63	17.66	68.184	
3,200.00	3,198.56	3,322.00	3,318.92	8.56	11.38	-84.055	11.06	1,196.30	1,193.02	1,174.93	18.09	65.953	
3,300.00	3,298.47	3,404.43	3,400.98	8.84	11.68	-84.261	11.32	1,188.54	1,183.21	1,164.69	18.51	63.906	
3,400.00	3,298.39	3,484.20	3,480.50	9.13	11.97	-84.461	11.60	1,182.24	1,174.94	1,156.01	18.93	62.068	
3,500.00	3,498.30	3,618.66	3,614.52	9.41	12.46	-84.833	12.68	1,171.49	1,166.83	1,147.33	19.50	59.842	
3,600.00	3,598.21	3,708.50	3,703.97	9.70	12.79	-85.107	13.74	1,163.15	1,157.26	1,137.32	19.94	58.025	
3,700.00	3,698.12	3,819.58	3,814.48	9.99	13.20	-85.405	14.04	1,151.97	1,146.85	1,126.41	20.45	56.091	
3,800.00	3,798.03	3,905.74	3,900.26	10.29	13.52	-85.613	13.78	1,143.89	1,137.13	1,116.25	20.88	54.454	
3,900.00	3,897.94	4,027.88	4,021.82	10.58	13.97	-85.923	13.57	1,131.95	1,127.12	1,105.70	21.41	52.638	
4,000.00	3,997.85	4,137.47	4,130.62	10.88	14.38	-86.233	13.63	1,118.83	1,114.86	1,092.96	21.91	50.887	
4,100.00	4,097.76	4,223.30	4,215.88	11.18	14.70	-86.467	13.45	1,108.98	1,103.17	1,080.82	22.35	49.365	
4,200.00	4,197.68	4,313.65	4,305.76	11.48	15.04	-86.711	13.27	1,099.83	1,092.81	1,070.01	22.80	47.939	
4,300.00	4,297.59	4,422.29	4,413.83	11.78	15.45	-87.042	13.65	1,088.71	1,082.46	1,059.17	23.29	46.477	
4,400.00	4,397.50	4,521.36	4,512.27	12.08	15.82	-87.393	14.68	1,077.64	1,071.27	1,047.51	23.76	45.085	
4,500.00	4,497.41	4,601.27	4,591.75	12.39	16.12	-87.689	15.76	1,069.43	1,061.11	1,036.93	24.18	43.881	
4,600.00	4,597.32	4,687.99	4,678.18	12.69	16.44	-87.978	16.47	1,062.43	1,053.00	1,028.38	24.62	42.778	
4,700.00	4,697.23	4,787.56	4,777.43	13.00	16.81	-88.301	17.07	1,054.50	1,045.05	1,019.97	25.09	41.658	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com - 434H - OH / 68223 - Surveys (H&P 474)												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 176-MWD+HDCM												<b>Offset Well Error:</b>	1.00 usft
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
4,800.00	4,797.14	4,906.65	4,896.10	13.31	17.25	-88.726	18.33	1,044.56	1,036.92	1,011.31	25.61	40.485	
4,900.00	4,897.05	5,041.84	5,030.28	13.62	17.76	-89.314	20.65	1,028.30	1,025.08	998.91	26.17	39.168	
5,000.00	4,996.97	5,125.36	5,113.12	13.92	18.09	-89.678	21.88	1,017.81	1,012.84	986.23	26.61	38.061	
5,100.00	5,096.88	5,224.11	5,211.18	14.23	18.46	-90.107	23.26	1,006.21	1,001.47	974.39	27.08	36.976	
5,200.00	5,196.79	5,330.95	5,317.14	14.55	18.87	-90.630	25.42	992.66	989.33	961.75	27.58	35.872	
5,300.00	5,296.70	5,414.89	5,400.48	14.86	19.19	-91.029	26.89	982.77	978.09	950.07	28.02	34.906	
5,400.00	5,396.61	5,523.55	5,508.44	15.17	19.61	-91.528	28.41	970.63	967.50	938.97	28.52	33.921	
5,500.00	5,496.52	5,646.42	5,630.03	15.48	20.09	-92.238	31.59	953.25	954.13	925.07	29.06	32.836	
5,600.00	5,596.43	5,741.64	5,724.18	15.79	20.46	-92.811	34.05	939.25	940.46	910.92	29.54	31.839	
5,700.00	5,696.34	5,834.05	5,815.66	16.11	20.83	-93.355	36.10	926.24	927.42	897.40	30.01	30.900	
5,800.00	5,796.26	5,927.72	5,908.48	16.42	21.19	-93.886	37.79	913.81	915.15	884.66	30.49	30.013	
5,900.00	5,896.17	6,025.51	6,005.46	16.74	21.57	-94.420	39.11	901.29	903.32	872.34	30.98	29.157	
6,000.00	5,996.08	6,123.29	6,102.44	17.05	21.95	-94.946	40.11	888.87	891.60	860.13	31.47	28.329	
6,100.00	6,095.99	6,216.64	6,195.08	17.37	22.32	-95.435	40.76	877.44	880.31	848.35	31.96	27.548	
6,200.00	6,195.90	6,313.95	6,291.74	17.68	22.69	-95.925	41.14	866.22	869.70	837.25	32.45	26.802	
6,300.00	6,295.81	6,415.46	6,392.55	18.00	23.08	-96.476	41.87	854.27	859.01	826.05	32.96	26.064	
6,400.00	6,395.72	6,512.40	6,488.79	18.32	23.46	-97.040	42.91	842.67	848.31	814.85	33.46	25.353	
6,500.00	6,495.63	6,606.66	6,582.43	18.63	23.82	-97.570	43.59	831.94	838.15	804.20	33.96	24.682	
6,600.00	6,595.55	6,703.19	6,678.36	18.95	24.19	-98.147	44.73	821.31	828.58	794.11	34.47	24.040	
6,700.00	6,695.46	6,801.40	6,775.97	19.27	24.57	-98.784	46.46	810.52	819.29	784.30	34.99	23.416	
6,800.00	6,795.37	6,898.22	6,872.21	19.59	24.94	-99.415	48.07	800.08	810.27	774.76	35.51	22.817	
6,900.00	6,895.28	6,994.07	6,967.53	19.91	25.31	-100.031	49.48	790.18	801.72	765.69	36.03	22.249	
7,000.00	6,995.19	7,089.66	7,062.65	20.23	25.67	-100.627	50.64	780.85	793.71	757.15	36.56	21.711	
7,100.00	7,095.10	7,192.02	7,164.53	20.54	26.06	-101.278	51.92	770.95	785.89	748.78	37.11	21.176	
7,200.00	7,195.01	7,286.34	7,270.23	20.86	26.47	-102.036	53.83	759.61	777.45	739.75	37.70	20.624	
7,300.00	7,294.92	7,395.21	7,366.47	21.18	26.84	-102.777	55.87	748.84	768.83	730.57	38.26	20.094	
7,400.00	7,394.84	7,488.81	7,459.55	21.50	27.20	-103.470	57.59	739.09	760.88	722.06	38.82	19.602	
7,500.00	7,494.75	7,585.02	7,555.29	21.82	27.57	-104.151	59.02	729.81	753.62	714.24	39.38	19.136	
7,600.00	7,594.66	7,683.30	7,653.15	22.14	27.94	-104.826	60.20	720.74	746.75	706.78	39.96	18.687	
7,700.00	7,694.57	7,784.55	7,753.98	22.46	28.32	-105.498	60.98	711.60	739.97	699.42	40.55	18.247	
7,800.00	7,794.48	7,888.67	7,857.53	22.78	28.72	-106.336	63.06	700.89	732.70	691.51	41.19	17.788	
7,900.00	7,894.39	7,986.11	7,954.34	23.10	29.10	-107.226	65.94	690.19	725.39	683.57	41.83	17.343	
8,000.00	7,994.30	8,079.82	8,047.52	23.42	29.46	-108.059	68.51	680.57	718.80	676.35	42.45	16.933	
8,100.00	8,094.21	8,173.15	8,140.43	23.75	29.81	-108.839	70.74	672.06	713.22	670.15	43.07	16.559	
8,200.00	8,194.13	8,267.16	8,234.11	24.07	30.16	-109.560	72.51	664.52	708.49	664.80	43.69	16.217	
8,300.00	8,294.04	8,355.85	8,322.60	24.39	30.49	-110.176	73.82	658.62	704.90	660.63	44.27	15.924	
8,400.00	8,393.95	8,437.78	8,404.43	24.71	30.78	-110.707	75.56	655.06	703.68	658.89	44.79	15.710	
8,400.03	8,393.97	8,437.80	8,404.45	24.71	30.78	-110.707	75.56	655.06	703.68	658.89	44.79	15.710 CC	
8,500.00	8,493.86	8,529.27	8,495.86	25.03	31.10	-111.279	78.12	652.64	704.36	658.99	45.37	15.526	
8,600.00	8,593.77	8,629.99	8,596.52	25.35	31.45	-111.873	80.80	650.58	705.56	659.56	46.00	15.340	
8,700.00	8,693.68	8,729.38	8,695.87	25.67	31.80	-112.404	82.87	648.86	706.79	660.18	46.61	15.164	
8,800.00	8,793.59	8,827.86	8,794.32	26.00	32.14	-112.894	84.63	647.49	708.20	660.99	47.21	15.000	
8,900.00	8,893.50	8,926.85	8,893.30	26.32	32.48	-113.359	86.24	646.42	709.85	662.03	47.82	14.845	
9,000.00	8,993.42	9,026.71	8,993.14	26.64	32.82	-113.803	87.62	645.53	711.55	663.12	48.43	14.694	
9,100.00	9,093.33	9,125.34	9,091.77	26.96	33.16	-114.222	88.86	644.81	713.37	664.35	49.02	14.551	
9,200.00	9,193.24	9,223.08	9,189.50	27.29	33.49	-114.616	90.02	644.46	715.48	665.87	49.61	14.421	
9,300.00	9,293.15	9,321.29	9,287.69	27.61	33.83	-115.009	91.34	644.32	717.91	667.71	50.21	14.300	
9,400.00	9,393.06	9,420.37	9,386.77	27.93	34.16	-115.394	92.67	644.39	720.53	669.73	50.80	14.183	
9,500.00	9,492.97	9,519.49	9,485.88	28.25	34.49	-115.748	93.77	644.72	723.27	671.88	51.39	14.074	
9,600.00	9,592.88	9,621.92	9,588.30	28.58	34.83	-116.096	94.73	645.16	726.01	674.02	52.00	13.963	
9,700.00	9,692.79	9,725.35	9,691.73	28.90	35.17	-116.440	95.32	645.19	728.25	675.63	52.62	13.841	
9,800.00	9,792.71	9,823.60	9,789.98	29.22	35.50	-116.765	95.79	645.09	730.33	677.13	53.20	13.727	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com - 434H - OH / 68223 - Surveys (H&P 474)												<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 176-MWD+HDGM												<b>Offset Well Error:</b> 1.00 usft
<b>Reference</b>												
<b>Offset</b>												
<b>Semi Major Axis</b>												
<b>Highside</b>												
<b>Offset Wellbore Centre</b>												
<b>Distance</b>												
<b>Between</b>												
<b>Ellipses</b>												
<b>Minimum</b>												
<b>Separation</b>												
<b>Factor</b>												
<b>Warning</b>												
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>
9,900.00	9,892.62	9,924.02	9,890.40	29.55	35.83	-117.032	95.73	645.60	732.61	678.84	53.78	13.623
10,000.00	9,992.53	10,025.68	9,992.06	29.87	36.15	-117.263	95.15	646.28	734.72	680.38	54.35	13.519
10,100.00	10,092.44	10,128.25	10,094.62	30.19	36.48	-117.470	94.15	646.89	736.55	681.63	54.92	13.411
10,200.00	10,192.35	10,229.91	10,196.27	30.52	36.81	-117.651	92.71	647.44	738.05	682.57	55.48	13.303
10,300.00	10,292.26	10,328.62	10,294.97	30.84	37.13	-117.830	91.37	647.94	739.59	683.56	56.03	13.199
10,400.00	10,392.17	10,429.27	10,395.61	31.16	37.46	-118.065	90.55	648.04	741.14	684.52	56.62	13.091
10,500.00	10,492.08	10,528.92	10,495.27	31.49	37.81	-118.367	90.42	647.56	742.67	685.44	57.23	12.978
10,600.00	10,592.00	10,628.08	10,594.42	31.81	38.15	-118.717	90.89	646.73	744.32	686.47	57.86	12.865
10,700.00	10,691.91	10,727.23	10,693.57	32.13	38.50	-119.078	91.51	645.84	746.06	687.56	58.49	12.755
10,800.00	10,791.82	10,827.09	10,793.42	32.46	38.85	-119.468	92.51	644.83	747.97	688.82	59.15	12.646
10,900.00	10,891.73	10,930.87	10,897.17	32.78	39.21	-119.920	93.85	643.14	749.63	689.79	59.84	12.527
11,000.00	10,991.64	11,031.57	10,997.84	33.11	39.57	-120.360	94.87	641.10	750.86	690.33	60.52	12.406
11,100.00	11,091.55	11,133.57	11,099.82	33.43	39.93	-120.786	95.74	639.21	752.14	690.93	61.21	12.287
11,200.00	11,191.46	11,234.61	11,200.85	33.75	40.28	-121.165	95.92	637.39	753.07	691.19	61.88	12.170
11,300.00	11,291.37	11,332.47	11,298.68	34.08	40.63	-121.540	96.25	635.62	754.13	691.59	62.54	12.058
11,400.00	11,391.29	11,430.65	11,396.83	34.40	40.98	-121.993	97.53	633.38	755.51	692.28	63.23	11.949
11,500.00	11,491.20	11,531.54	11,484.71	34.73	41.28	-122.299	98.17	632.72	757.71	693.89	63.81	11.874
11,600.00	11,591.11	11,631.63	11,575.79	35.05	41.58	-122.501	98.69	634.13	761.48	697.12	64.36	11.831
11,700.00	11,691.02	11,731.40	11,676.54	35.38	41.90	-122.709	99.52	636.23	765.84	700.88	64.96	11.789
11,800.00	11,790.93	11,831.92	11,779.04	35.70	42.24	-122.966	100.60	637.61	769.83	704.23	65.60	11.736
11,900.00	11,890.84	11,931.92	11,875.38	36.03	42.56	-123.266	102.18	638.41	773.87	707.65	66.22	11.686
11,907.54	11,898.38	11,917.00	11,883.10	36.05	42.59	-123.287	102.30	638.52	774.20	707.93	66.27	11.682
12,000.00	11,990.80	12,007.55	11,973.63	36.33	42.89	-123.457	103.33	640.20	777.48	710.71	66.78	11.643
12,028.24	12,019.04	12,035.54	12,001.61	36.36	42.98	-123.532	103.53	640.87	778.19	711.31	66.88	11.636
12,100.00	12,090.80	12,109.56	12,075.60	36.36	43.22	-123.623	103.69	642.84	779.69	712.60	67.09	11.622
12,200.00	12,190.80	12,225.81	12,191.58	36.36	43.58	-123.710	99.55	648.51	780.85	713.53	67.32	11.599
12,300.00	12,290.80	12,347.35	12,310.02	36.36	43.93	-123.769	79.10	665.38	779.99	712.98	67.01	11.640
12,400.00	12,390.80	12,426.52	12,359.01	36.37	44.60	-123.841	-136.90	745.90	760.73	698.02	62.71	12.130
12,500.00	12,490.80	12,520.00	12,463.93	36.37	44.69	-123.841	-314.44	779.02	733.24	671.72	61.52	11.919
12,528.24	12,519.04	12,520.00	12,463.93	36.37	44.69	-123.841	-314.44	779.02	727.09	665.64	61.45	11.833
12,550.00	12,540.79	12,520.00	12,463.93	36.40	44.69	-123.841	-314.44	779.02	723.13	661.74	61.39	11.779
12,600.00	12,590.61	12,634.89	12,665.56	36.63	44.70	-123.841	-329.10	781.03	716.78	655.43	61.35	11.683
12,650.00	12,639.89	12,645.21	12,666.58	36.95	44.70	-123.841	-339.27	782.49	714.44	653.12	61.33	11.650
12,654.81	12,644.58	12,646.34	12,666.69	36.98	44.70	-123.841	-340.39	782.65	714.43	653.10	61.33	11.650 ES
12,700.00	12,688.24	12,698.01	12,667.73	37.29	44.71	-123.841	-351.88	784.36	715.98	654.63	61.34	11.672
12,750.00	12,735.30	12,737.01	12,668.91	37.62	44.73	-123.841	-366.66	786.64	721.15	659.74	61.41	11.743
12,800.00	12,780.72	12,789.94	12,670.03	37.96	44.75	-123.841	-383.34	789.35	729.64	668.12	61.52	11.859
12,850.00	12,824.15	12,819.00	12,671.39	38.29	44.80	-123.841	-411.94	794.28	741.17	679.46	61.71	12.010
12,900.00	12,865.26	12,835.69	12,671.97	38.60	44.84	-123.841	-428.36	797.20	754.91	693.01	61.89	12.197
12,950.00	12,903.73	12,903.58	12,673.21	38.90	44.92	-123.841	-465.69	803.60	770.20	708.04	62.16	12.390
13,000.00	12,939.27	13,114.92	12,674.45	39.18	45.02	-123.841	-506.47	810.26	786.23	723.76	62.47	12.586
13,050.00	12,971.62	13,156.16	12,675.46	39.43	45.14	-123.841	-547.21	816.59	802.47	739.66	62.81	12.777
13,100.00	13,000.52	13,199.77	12,676.17	39.65	45.26	-123.841	-590.34	822.99	818.44	755.28	63.16	12.957
13,150.00	13,025.76	13,235.92	12,676.49	39.85	45.38	-123.841	-626.11	828.23	833.92	770.42	63.50	13.132
13,200.00	13,047.14	13,271.27	12,676.62	40.02	45.49	-123.841	-661.03	833.69	848.91	785.06	63.85	13.295
13,250.00	13,064.50	13,303.00	12,676.59	40.15	45.60	-123.841	-692.33	838.89	863.16	798.96	64.21	13.443
13,300.00	13,077.71	13,344.96	12,676.58	40.26	45.75	-123.841	-733.63	846.33	876.39	811.73	64.66	13.554
13,350.00	13,086.67	13,382.86	12,676.81	40.33	45.89	-123.841	-770.81	853.69	888.44	823.32	65.11	13.644
13,400.00	13,091.30	13,398.00	12,676.96	40.38	45.95	-123.841	-785.62	856.79	899.56	834.04	65.52	13.730
13,428.24	13,092.00	13,440.42	12,677.13	40.39	46.13	-123.841	-827.06	865.87	904.71	838.81	65.90	13.729
13,500.00	13,092.00	13,492.33	12,676.50	40.40	46.36	-123.841	-877.63	877.58	918.92	852.27	66.65	13.787
13,600.00	13,092.00	13,587.00	12,672.97	40.43	46.78	-123.841	-969.37	900.65	941.46	873.63	67.83	13.880

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com - 434H - OH / 68223 - Surveys (H&P 474)												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 176-MWD+HDCM												<b>Offset Well Error:</b>	1.00 usft
<b>Reference</b>												<b>Rule Assigned:</b>	
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
				<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
13,700.00	13,092.00	13,636.14	12,670.74	40.46	47.03	-63.144	-1,016.65	913.83	965.89	897.00	68.89	14.020	
13,800.00	13,092.00	13,756.28	12,668.56	40.50	47.67	-63.936	-1,131.58	948.73	992.32	921.91	70.41	14.094	
13,900.00	13,092.00	13,991.92	12,672.10	40.53	49.08	-65.269	-1,361.95	996.86	1,009.23	935.94	73.29	13.770	
14,000.00	13,092.00	14,234.37	12,659.95	40.58	50.66	-64.690	-1,603.25	1,001.15	1,011.24	934.53	76.71	13.182	
14,100.00	13,092.00	14,336.00	12,648.28	40.63	51.35	-63.856	-1,703.84	992.52	1,007.68	929.48	78.21	12.885	
14,200.00	13,092.00	14,408.78	12,640.50	40.69	51.88	-63.316	-1,776.02	987.53	1,005.44	926.09	79.35	12.671	
14,233.39	13,092.00	14,434.00	12,638.02	40.71	52.06	-63.155	-1,801.10	986.42	1,005.32	925.56	79.76	12.605	
14,300.00	13,092.00	14,495.39	12,635.48	40.76	52.53	-62.999	-1,862.39	985.97	1,005.54	924.75	80.80	12.445	
14,400.00	13,092.00	14,587.27	12,640.76	40.85	53.26	-63.359	-1,954.00	990.44	1,006.45	923.89	82.55	12.192	
14,500.00	13,092.00	14,665.08	12,644.75	40.95	53.90	-63.660	-2,031.57	995.04	1,008.67	924.55	84.12	11.991	
14,600.00	13,092.00	14,800.87	12,648.28	41.10	55.04	-64.020	-2,166.96	1,003.53	1,012.92	926.25	86.67	11.687	
14,611.75	13,092.00	14,786.91	12,647.82	41.12	54.92	-63.973	-2,153.03	1,002.45	1,012.61	926.14	86.47	11.710	
14,700.00	13,092.00	14,894.70	12,644.91	41.29	55.85	-63.807	-2,260.72	1,002.77	1,012.93	924.50	88.43	11.455	
14,800.00	13,092.00	14,980.92	12,640.08	41.57	56.60	-63.535	-2,346.80	1,002.51	1,014.29	924.24	90.05	11.264	
14,900.00	13,092.00	15,120.74	12,633.53	41.99	57.84	-63.122	-2,486.44	1,000.59	1,014.27	921.75	92.52	10.963	
15,000.00	13,092.00	15,215.97	12,631.25	42.60	58.71	-62.936	-2,581.62	998.74	1,012.77	918.40	94.36	10.733	
15,100.00	13,092.00	15,316.77	12,629.26	43.42	59.65	-62.766	-2,682.38	996.99	1,011.26	914.93	96.33	10.498	
15,200.00	13,092.00	15,416.01	12,629.06	44.43	60.60	-62.714	-2,781.62	996.37	1,009.94	911.60	98.34	10.270	
15,300.00	13,092.00	15,519.19	12,633.66	45.56	61.62	-62.961	-2,884.67	997.91	1,008.37	907.80	100.58	10.026	
15,400.00	13,092.00	15,611.27	12,639.29	46.76	62.55	-63.279	-2,976.55	1,000.08	1,006.87	904.18	102.69	9.805	
15,456.62	13,092.00	15,659.00	12,641.08	47.47	63.03	-63.387	-3,024.23	1,001.20	1,006.62	902.82	103.80	9.698	
15,500.00	13,092.00	15,698.02	12,642.28	48.01	63.43	-63.466	-3,063.22	1,002.27	1,006.71	902.02	104.69	9.616	
15,600.00	13,092.00	15,791.60	12,646.12	49.30	64.41	-63.734	-3,156.65	1,006.00	1,007.59	900.72	106.86	9.429	
15,700.00	13,092.00	15,902.41	12,649.59	50.61	65.57	-63.979	-3,267.33	1,009.79	1,008.45	899.09	109.36	9.221	
15,800.00	13,092.00	16,008.08	12,651.51	51.93	66.69	-64.084	-3,372.98	1,011.10	1,007.89	896.17	111.72	9.022	
15,850.90	13,092.00	16,053.54	12,651.56	52.61	67.17	-64.082	-3,418.44	1,011.37	1,007.69	894.94	112.75	8.937	
15,900.00	13,092.00	16,092.69	12,651.31	53.27	67.59	-64.072	-3,457.58	1,011.84	1,007.94	894.27	113.66	8.868	
16,000.00	13,092.00	16,175.39	12,650.07	54.61	68.49	-64.038	-3,540.25	1,013.80	1,009.85	894.29	115.57	8.738	
16,100.00	13,092.00	16,264.40	12,648.14	55.97	69.47	-63.999	-3,629.18	1,017.04	1,013.20	895.60	117.60	8.616	
16,200.00	13,092.00	16,371.35	12,645.31	57.33	70.66	-63.933	-3,736.01	1,021.20	1,017.01	897.03	119.97	8.477	
16,300.00	13,092.00	16,493.86	12,645.62	58.69	72.04	-64.018	-3,858.44	1,025.18	1,018.95	896.21	122.74	8.302	
16,400.00	13,092.00	16,642.89	12,647.88	60.06	73.72	-64.067	-4,007.39	1,023.97	1,016.33	890.44	125.89	8.073	
16,500.00	13,092.00	16,733.90	12,648.01	61.44	74.74	-63.991	-4,098.37	1,021.52	1,012.96	884.95	128.01	7.913	
16,600.00	13,092.00	16,831.05	12,646.37	62.81	75.85	-63.808	-4,195.46	1,018.48	1,010.04	879.86	130.18	7.759	
16,700.00	13,092.00	16,924.95	12,645.57	64.20	76.93	-63.691	-4,289.33	1,016.34	1,007.50	875.17	132.33	7.613	
16,800.00	13,092.00	17,008.84	12,644.61	65.58	77.91	-63.592	-4,373.20	1,015.16	1,005.93	871.60	134.33	7.488	
16,820.59	13,092.00	17,023.78	12,644.51	65.87	78.08	-63.584	-4,388.14	1,015.21	1,005.87	871.16	134.71	7.467	
16,900.00	13,092.00	17,082.48	12,644.62	66.97	78.77	-63.610	-4,446.83	1,016.54	1,006.73	870.53	136.20	7.391	
17,000.00	13,092.00	17,173.20	12,643.02	68.36	79.85	-63.573	-4,537.48	1,019.18	1,009.25	870.89	138.36	7.294	
17,100.00	13,092.00	17,266.00	12,639.25	69.75	80.97	-63.415	-4,630.18	1,021.37	1,012.34	871.86	140.48	7.206	
17,200.00	13,092.00	17,360.00	12,636.65	71.14	82.10	-63.358	-4,724.06	1,025.22	1,016.37	873.68	142.70	7.123	
17,300.00	13,092.00	17,496.11	12,636.79	72.54	83.76	-63.503	-4,859.99	1,032.01	1,020.31	874.36	145.95	6.991	
17,400.00	13,092.00	17,718.29	12,633.89	73.94	86.41	-62.915	-5,081.44	1,016.85	1,012.58	863.08	149.50	6.773	
17,500.00	13,092.00	17,793.34	12,633.51	75.34	87.30	-62.663	-5,156.02	1,008.63	1,002.29	850.83	151.46	6.617	
17,600.00	13,092.00	17,863.62	12,634.82	76.74	88.15	-62.595	-5,226.14	1,004.21	994.98	841.52	153.46	6.484	
17,700.00	13,092.00	17,927.00	12,636.46	78.14	88.92	-62.613	-5,289.48	1,002.35	990.55	835.21	155.34	6.377	
17,800.00	13,092.00	18,021.00	12,638.29	79.55	90.09	-62.672	-5,383.45	1,001.94	988.43	830.72	157.71	6.268	
17,888.75	13,092.00	18,094.02	12,637.82	80.79	91.00	-62.632	-5,456.47	1,002.06	988.00	828.46	159.54	6.193	
17,900.00	13,092.00	18,104.12	12,637.55	80.95	91.12	-62.615	-5,466.57	1,002.02	988.00	828.23	159.78	6.184	
18,000.00	13,092.00	18,192.78	12,635.58	82.36	92.23	-62.505	-5,555.19	1,002.54	988.69	826.80	161.89	6.107	
18,100.00	13,092.00	18,271.77	12,635.43	83.76	93.23	-62.547	-5,634.14	1,005.18	990.92	827.02	163.91	6.046	
18,200.00	13,092.00	18,353.61	12,634.57	85.17	94.27	-62.600	-5,715.85	1,009.61	995.33	829.37	165.96	5.997	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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+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		
18,300.00	13,092.00	18,437.06	12,630.68	86.58	95.34	-62.496	-5,799.09	1,013.99	1,001.30	833.41	167.89	5.964			
18,400.00	13,092.00	18,528.24	12,627.00	87.99	96.51	-62.467	-5,889.94	1,020.83	1,008.93	838.84	170.09	5.932			
18,500.00	13,092.00	18,707.51	12,629.95	89.40	98.83	-62.878	-6,068.67	1,032.58	1,013.49	838.65	174.85	5.797			
18,600.00	13,092.00	18,813.79	12,635.93	90.81	100.21	-63.249	-6,174.72	1,036.34	1,013.25	835.45	177.80	5.699			
18,700.00	13,092.00	18,918.65	12,640.92	92.23	101.56	-63.526	-6,279.44	1,038.34	1,011.95	831.30	180.64	5.602			
18,800.00	13,092.00	19,011.92	12,645.45	93.64	102.78	-63.793	-6,372.57	1,040.68	1,011.17	827.89	183.28	5.517			
18,900.00	13,092.00	19,108.55	12,649.67	95.06	104.04	-64.050	-6,469.07	1,043.30	1,010.83	824.85	185.98	5.435			
18,950.10	13,092.00	19,157.00	12,651.54	95.76	104.67	-64.166	-6,517.46	1,044.63	1,010.79	823.46	187.33	5.396			
19,000.00	13,092.00	19,198.78	12,652.70	96.47	105.21	-64.244	-6,559.21	1,045.79	1,010.99	822.49	188.51	5.363			
19,100.00	13,092.00	19,287.21	12,652.93	97.89	106.37	-64.296	-6,647.60	1,048.26	1,012.52	821.68	190.84	5.306			
19,200.00	13,092.00	19,383.65	12,652.47	99.30	107.63	-64.323	-6,744.00	1,051.24	1,014.64	821.32	193.32	5.249			
19,300.00	13,092.00	19,470.67	12,652.02	100.72	108.78	-64.356	-6,830.96	1,054.39	1,017.30	821.71	195.59	5.201			
19,400.00	13,092.00	19,543.75	12,651.52	102.14	109.74	-64.421	-6,903.90	1,058.81	1,022.18	824.69	197.49	5.176			
19,500.00	13,092.00	19,631.00	12,650.77	103.55	110.90	-64.556	-6,990.78	1,066.79	1,029.83	830.02	199.81	5.154			
19,600.00	13,092.00	19,793.58	12,648.94	104.97	113.06	-64.643	-7,152.94	1,075.85	1,034.65	830.61	204.04	5.071			
19,700.00	13,092.00	19,932.28	12,642.04	106.39	114.87	-64.167	-7,291.35	1,071.73	1,032.89	826.15	206.74	4.996			
19,800.00	13,092.00	20,039.84	12,637.89	107.81	116.27	-63.830	-7,398.74	1,067.42	1,030.11	821.10	209.00	4.929			
19,900.00	13,092.00	20,147.24	12,634.90	109.23	117.68	-63.547	-7,506.00	1,063.07	1,026.87	815.56	211.31	4.860			
20,000.00	13,092.00	20,261.31	12,634.91	110.65	119.17	-63.403	-7,619.98	1,058.41	1,022.33	808.51	213.82	4.781			
20,100.00	13,092.00	20,368.55	12,634.77	112.07	120.57	-63.226	-7,727.07	1,052.69	1,016.76	800.56	216.20	4.703			
20,200.00	13,092.00	20,473.18	12,635.20	113.49	121.94	-63.070	-7,831.53	1,046.74	1,010.64	792.07	218.57	4.624			
20,300.00	13,092.00	20,566.41	12,636.38	114.91	123.17	-62.981	-7,924.62	1,041.89	1,004.58	783.65	220.93	4.547			
20,400.00	13,092.00	20,649.35	12,638.94	116.34	124.27	-63.027	-8,007.48	1,039.42	999.68	776.34	223.34	4.476			
20,500.00	13,092.00	20,749.74	12,642.98	117.76	125.61	-63.177	-8,107.78	1,038.19	995.90	769.83	226.08	4.405			
20,600.00	13,092.00	20,848.64	12,647.19	119.18	126.93	-63.333	-8,206.58	1,036.78	991.85	763.05	228.80	4.335			
20,700.00	13,092.00	20,912.00	12,650.39	120.60	127.78	-63.468	-8,269.85	1,036.21	988.60	757.64	230.96	4.280			
20,702.33	13,092.00	20,912.00	12,650.39	120.64	127.78	-63.468	-8,269.85	1,036.21	988.60	757.62	230.98	4.280	SF		
20,800.00	13,092.00	20,912.00	12,650.39	122.03	127.78	-63.468	-8,269.85	1,036.21	993.41	762.79	230.63	4.307			
20,900.00	13,092.00	20,912.00	12,650.39	123.45	127.78	-63.468	-8,269.85	1,036.21	1,008.17	779.78	228.39	4.414			
21,000.00	13,092.00	20,912.00	12,650.39	124.87	127.78	-63.468	-8,269.85	1,036.21	1,032.44	807.95	224.50	4.599			
21,100.00	13,092.00	20,912.00	12,650.39	126.30	127.78	-63.468	-8,269.85	1,036.21	1,065.59	846.30	219.29	4.859			
21,200.00	13,092.00	20,912.00	12,650.39	127.72	127.78	-63.468	-8,269.85	1,036.21	1,106.80	893.64	213.16	5.192			
21,300.00	13,092.00	20,912.00	12,650.39	129.15	127.78	-63.468	-8,269.85	1,036.21	1,155.22	948.75	206.48	5.595			
21,400.00	13,092.00	20,912.00	12,650.39	130.57	127.78	-63.468	-8,269.85	1,036.21	1,209.99	1,010.42	199.57	6.063			
21,500.00	13,092.00	20,912.00	12,650.39	132.00	127.78	-63.468	-8,269.85	1,036.21	1,270.28	1,077.60	192.68	6.593			
21,600.00	13,092.00	20,912.00	12,650.39	133.42	127.78	-63.468	-8,269.85	1,036.21	1,335.34	1,149.35	185.99	7.179			
21,700.00	13,092.00	20,912.00	12,650.39	134.85	127.78	-63.468	-8,269.85	1,036.21	1,404.52	1,224.90	179.62	7.819			
21,800.00	13,092.00	20,912.00	12,650.39	136.27	127.78	-63.468	-8,269.85	1,036.21	1,477.23	1,303.59	173.64	8.507			
21,900.00	13,092.00	20,912.00	12,650.39	137.70	127.78	-63.468	-8,269.85	1,036.21	1,552.98	1,384.90	168.08	9.240			
22,000.00	13,092.00	20,912.00	12,650.39	139.12	127.78	-63.468	-8,269.85	1,036.21	1,631.34	1,468.41	162.94	10.012			
22,100.00	13,092.00	20,912.00	12,650.39	140.55	127.78	-63.468	-8,269.85	1,036.21	1,711.96	1,553.75	158.22	10.820			
22,200.00	13,092.00	20,912.00	12,650.39	141.98	127.78	-63.468	-8,269.85	1,036.21	1,794.53	1,640.64	153.89	11.661			
22,300.00	13,092.00	20,912.00	12,650.39	143.40	127.78	-63.468	-8,269.85	1,036.21	1,878.80	1,728.86	149.94	12.530			
22,400.00	13,092.00	20,912.00	12,650.39	144.83	127.78	-63.468	-8,269.85	1,036.21	1,964.54	1,818.20	146.34	13.425			
22,500.00	13,092.00	20,912.00	12,650.39	146.26	127.78	-63.468	-8,269.85	1,036.21	2,051.57	1,908.52	143.05	14.341			
22,600.00	13,092.00	20,912.00	12,650.39	147.69	127.78	-63.468	-8,269.85	1,036.21	2,139.74	1,999.68	140.06	15.278			
22,700.00	13,092.00	20,912.00	12,650.39	149.11	127.78	-63.468	-8,269.85	1,036.21	2,228.91	2,091.58	137.33	16.231			
22,728.24	13,092.00	20,912.00	12,650.39	149.52	127.78	-63.468	-8,269.85	1,036.21	2,254.25	2,117.65	136.60	16.503			

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com - 514H - OH / 68224 - Suveys (H&P 474)													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 176-MWD+HDGM													<b>Offset Well Error:</b> 1.00 usft
<b>Reference</b>	<b>Offset</b>	<b>Semi Major Axis</b>		<b>Distance</b>		<b>Rule Assigned:</b>		<b>Warning</b>					
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
0.00	0.00	0.00	2.00	1.00	1.00	90.645	-14.88	1,322.08	1,322.17				
100.00	100.00	100.38	102.38	1.08	1.01	90.651	-15.03	1,321.99	1,322.08	1,319.98	2.10	630.829	
200.00	200.00	202.56	204.56	1.60	1.06	90.670	-15.45	1,321.71	1,321.81	1,319.15	2.66	496.449	
300.00	300.00	304.40	306.40	2.01	1.24	90.686	-15.83	1,321.30	1,321.41	1,318.16	3.25	407.039	
400.00	400.00	404.06	406.05	2.35	1.48	90.718	-16.54	1,320.79	1,320.91	1,317.08	3.83	345.054	
500.00	500.00	505.78	507.77	2.65	1.76	90.735	-16.95	1,320.27	1,320.40	1,315.99	4.42	299.068	
600.00	600.00	603.03	605.02	2.93	2.06	90.767	-17.66	1,319.78	1,319.91	1,314.93	4.98	264.836	
700.00	700.00	701.50	703.48	3.18	2.37	90.813	-18.73	1,319.48	1,319.62	1,314.07	5.55	237.803	
800.00	800.00	806.91	808.89	3.41	2.72	90.852	-19.61	1,318.92	1,319.10	1,312.97	6.13	215.149	
900.00	900.00	904.09	906.06	3.64	3.04	90.876	-20.16	1,318.30	1,318.47	1,311.79	6.68	197.409	
1,000.00	1,000.00	999.80	1,001.77	3.85	3.37	90.901	-20.74	1,318.13	1,318.29	1,311.08	7.21	182.747	
1,100.00	1,100.00	1,102.95	1,104.92	4.05	3.72	90.941	-21.65	1,317.73	1,317.92	1,310.15	7.77	169.642	
1,167.98	1,167.98	1,166.02	1,167.98	4.18	3.94	90.968	-22.26	1,317.58	1,317.77	1,309.65	8.12	162.342	
1,200.00	1,200.00	1,194.57	1,196.53	4.24	4.04	90.980	-22.55	1,317.61	1,317.81	1,309.53	8.28	159.215	
1,300.00	1,300.00	1,283.92	1,285.87	4.43	4.34	91.022	-23.52	1,318.19	1,318.48	1,309.71	8.77	150.389	
1,400.00	1,400.00	1,378.00	1,379.94	4.61	4.66	91.076	-24.77	1,319.48	1,319.86	1,310.60	9.27	142.441	
1,500.00	1,500.00	1,505.89	1,507.80	4.78	5.10	91.155	-26.62	1,320.55	1,320.84	1,310.96	9.88	133.667	
1,600.00	1,599.98	1,621.37	1,623.26	4.98	5.51	-78.851	-28.81	1,318.98	1,319.16	1,308.76	10.40	126.785	
1,620.70	1,620.67	1,641.54	1,643.41	4.99	5.58	-78.877	-29.18	1,318.62	1,318.65	1,308.17	10.48	125.855	
1,700.00	1,699.89	1,718.81	1,720.66	5.07	5.85	-78.954	-30.58	1,317.32	1,316.69	1,305.88	10.81	121.782	
1,800.00	1,799.81	1,816.53	1,818.35	5.23	6.20	-79.052	-32.36	1,315.83	1,314.39	1,303.11	11.28	116.520	
1,900.00	1,899.72	1,913.99	1,915.79	5.41	6.54	-79.150	-34.12	1,314.51	1,312.27	1,300.51	11.76	111.629	
2,000.00	1,999.63	2,011.51	2,013.29	5.60	6.89	-79.243	-36.01	1,313.41	1,310.38	1,298.15	12.23	107.133	
2,100.00	2,099.54	2,115.78	2,117.53	5.80	7.26	-79.345	-37.98	1,312.18	1,308.45	1,295.72	12.73	102.781	
2,200.00	2,199.45	2,223.22	2,224.94	6.02	7.64	-79.457	-39.87	1,310.33	1,305.96	1,292.72	13.24	98.642	
2,300.00	2,299.36	2,322.58	2,324.27	6.24	7.99	-79.572	-41.33	1,308.30	1,303.17	1,289.45	13.72	94.988	
2,400.00	2,399.27	2,417.70	2,419.36	6.47	8.33	-79.686	-42.69	1,306.66	1,300.68	1,286.50	14.18	91.697	
2,500.00	2,499.18	2,513.87	2,515.51	6.72	8.68	-79.797	-44.14	1,305.31	1,298.54	1,283.89	14.65	88.614	
2,600.00	2,599.10	2,609.53	2,611.15	6.96	9.02	-79.912	-45.51	1,304.25	1,296.69	1,281.57	15.12	85.752	
2,700.00	2,699.01	2,703.74	2,705.35	7.22	9.35	-80.029	-46.76	1,303.57	1,295.23	1,279.65	15.58	83.118	
2,800.00	2,798.92	2,797.29	2,798.90	7.48	9.69	-80.148	-47.97	1,303.34	1,294.26	1,278.22	16.04	80.687	
2,900.00	2,898.83	2,901.83	2,903.43	7.74	10.06	-80.281	-49.29	1,303.36	1,293.57	1,277.03	16.54	78.227	
3,000.00	2,998.74	3,022.31	3,023.89	8.01	10.49	-80.439	-50.75	1,302.05	1,291.78	1,274.69	17.09	75.601	
3,100.00	3,098.65	3,116.70	3,118.26	8.28	10.82	-80.558	-51.99	1,300.35	1,289.28	1,271.73	17.55	73.476	
3,200.00	3,198.56	3,214.74	3,216.28	8.56	11.17	-80.685	-53.24	1,298.96	1,287.16	1,269.14	18.02	71.432	
3,300.00	3,298.47	3,314.00	3,315.53	8.84	11.52	-80.843	-53.83	1,297.52	1,285.02	1,266.53	18.49	69.492	
3,400.00	3,398.39	3,408.00	3,409.52	9.13	11.86	-81.008	-54.07	1,296.35	1,283.12	1,264.18	18.94	67.732	
3,500.00	3,498.30	3,491.07	3,492.59	9.41	12.14	-81.151	-54.32	1,296.16	1,282.24	1,262.89	19.35	66.262	
3,517.97	3,516.25	3,506.45	3,507.97	9.46	12.19	-81.178	-54.35	1,296.25	1,282.22	1,262.80	19.42	66.009	
3,600.00	3,598.21	3,583.57	3,585.08	9.70	12.45	-81.322	-54.32	1,296.89	1,282.38	1,262.60	19.78	64.835	
3,700.00	3,698.12	3,705.11	3,706.62	9.99	12.87	-81.550	-54.29	1,297.12	1,281.94	1,261.62	20.31	63.104	
3,800.00	3,798.03	3,799.76	3,801.27	10.29	13.20	-81.707	-54.72	1,296.71	1,280.88	1,260.11	20.77	61.669	
3,900.00	3,897.94	3,897.19	3,898.69	10.58	13.55	-81.859	-55.40	1,296.58	1,280.12	1,258.89	21.24	60.282	
4,000.00	3,997.85	3,994.61	3,996.11	10.88	13.90	-82.008	-56.14	1,296.64	1,279.57	1,257.87	21.70	58.969	
4,100.00	4,097.76	4,093.48	4,094.98	11.18	14.24	-82.158	-56.91	1,296.91	1,279.23	1,257.06	22.17	57.712	
4,200.00	4,197.68	4,209.14	4,210.64	11.48	14.66	-82.327	-57.97	1,296.73	1,278.50	1,255.81	22.69	56.339	
4,300.00	4,297.59	4,316.82	4,318.28	11.78	15.04	-82.451	-59.78	1,295.00	1,276.24	1,253.05	23.19	55.024	
4,400.00	4,397.50	4,406.17	4,407.62	12.08	15.36	-82.544	-61.49	1,293.95	1,274.44	1,250.81	23.63	53.927	
4,500.00	4,497.41	4,494.64	4,496.07	12.39	15.68	-82.636	-63.15	1,293.74	1,273.57	1,249.50	24.06	52.922	
4,600.00	4,597.32	4,595.19	4,596.60	12.69	16.03	-82.746	-64.88	1,294.15	1,273.36	1,248.82	24.54	51.893	
4,700.00	4,697.23	4,703.53	4,704.91	13.00	16.42	-82.833	-67.49	1,293.89	1,272.46	1,247.42	25.04	50.813	
4,800.00	4,797.14	4,830.25	4,831.56	13.31	16.88	-82.909	-71.20	1,292.21	1,270.52	1,244.91	25.61	49.612	

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





## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com - 514H - OH / 68224 - Suveys (H&P 474)												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 176-MWD+HDCM												<b>Offset Well Error:</b>	1.00 usft
<b>Rule Assigned:</b>												<b>Warning</b>	
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	
4,900.00	4,897.05	4,907.61	4,908.87	13.62	17.15	-82.945	-73.70	1,290.98	1,268.23	1,242.22	26.01	48.763	
5,000.00	4,996.97	5,023.04	5,024.22	13.92	17.57	-82.981	-77.79	1,289.67	1,266.44	1,239.90	26.54	47.721	
5,100.00	5,096.88	5,150.85	5,151.85	14.23	18.03	-82.977	-83.43	1,285.92	1,262.79	1,235.68	27.11	46.588	
5,200.00	5,196.79	5,273.20	5,273.89	14.55	18.48	-82.961	-89.23	1,279.55	1,256.78	1,229.13	27.65	45.455	
5,300.00	5,296.70	5,386.17	5,386.50	14.86	18.88	-82.950	-94.56	1,272.29	1,249.60	1,221.44	28.16	44.373	
5,400.00	5,396.61	5,480.81	5,480.80	15.17	19.23	-82.929	-99.29	1,265.86	1,242.05	1,213.42	28.63	43.390	
5,500.00	5,496.52	5,575.72	5,575.39	15.48	19.57	-82.895	-104.29	1,259.86	1,234.95	1,205.86	29.09	42.451	
5,600.00	5,596.43	5,680.53	5,679.85	15.79	19.95	-82.867	-109.61	1,253.26	1,227.88	1,198.30	29.58	41.506	
5,700.00	5,696.34	5,796.66	5,795.56	16.11	20.37	-82.901	-114.17	1,244.47	1,219.56	1,189.46	30.10	40.518	
5,800.00	5,796.26	5,885.55	5,884.15	16.42	20.70	-82.942	-117.36	1,237.83	1,211.39	1,180.84	30.54	39.660	
5,900.00	5,896.17	5,984.10	5,982.39	16.74	21.05	-82.980	-121.03	1,231.01	1,203.77	1,172.76	31.01	38.813	
6,000.00	5,996.08	6,086.34	6,084.30	17.05	21.42	-83.061	-123.99	1,223.46	1,195.72	1,164.23	31.49	37.971	
6,100.00	6,095.99	6,172.34	6,170.11	17.37	21.73	-83.202	-124.99	1,217.69	1,188.44	1,156.52	31.92	37.235	
6,200.00	6,195.90	6,262.04	6,259.65	17.68	22.05	-83.378	-125.39	1,212.48	1,182.13	1,149.78	32.35	36.543	
6,300.00	6,295.81	6,351.85	6,349.36	18.00	22.36	-83.580	-125.28	1,208.01	1,176.68	1,143.91	32.78	35.901	
6,400.00	6,395.72	6,442.30	6,439.72	18.32	22.68	-83.809	-124.61	1,204.19	1,172.05	1,138.85	33.20	35.302	
6,500.00	6,495.63	6,527.00	6,524.37	18.63	22.98	-84.015	-124.14	1,201.40	1,168.37	1,134.77	33.60	34.768	
6,600.00	6,595.55	6,622.00	6,619.35	18.95	23.31	-84.224	-124.00	1,199.32	1,165.76	1,131.71	34.04	34.244	
6,700.00	6,695.46	6,716.00	6,713.33	19.27	23.64	-84.432	-123.84	1,197.74	1,163.67	1,129.19	34.48	33.752	
6,800.00	6,795.37	6,802.51	6,799.83	19.59	23.93	-84.641	-123.31	1,196.78	1,162.23	1,127.35	34.87	33.326	
6,842.88	6,838.21	6,836.39	6,833.71	19.72	24.05	-84.730	-122.91	1,196.74	1,162.05	1,127.02	35.03	33.174	
6,900.00	6,895.28	6,880.51	6,877.82	19.91	24.19	-84.859	-122.12	1,197.09	1,162.37	1,127.14	35.23	32.996	
7,000.00	6,995.19	6,973.98	6,971.25	20.23	24.49	-85.154	-119.89	1,198.79	1,164.01	1,128.38	35.63	32.669	
7,100.00	7,095.10	7,073.52	7,070.74	20.54	24.82	-85.462	-117.62	1,200.63	1,165.72	1,129.66	36.06	32.331	
7,200.00	7,195.01	7,176.35	7,173.54	20.86	25.15	-85.787	-115.14	1,202.45	1,167.40	1,130.91	36.49	31.988	
7,300.00	7,294.92	7,273.16	7,270.29	21.18	25.47	-86.111	-112.42	1,204.04	1,169.09	1,132.13	36.91	31.672	
7,400.00	7,394.84	7,364.37	7,361.43	21.50	25.77	-86.427	-109.55	1,205.98	1,171.23	1,133.92	37.31	31.395	
7,500.00	7,494.75	7,460.34	7,457.33	21.82	26.09	-86.748	-106.71	1,208.60	1,174.03	1,136.31	37.72	31.125	
7,600.00	7,594.66	7,560.64	7,557.56	22.14	26.42	-87.064	-104.08	1,211.50	1,177.00	1,138.85	38.15	30.849	
7,700.00	7,694.57	7,668.79	7,665.64	22.46	26.77	-87.389	-101.57	1,214.25	1,179.62	1,141.00	38.62	30.544	
7,800.00	7,794.48	7,774.83	7,771.63	22.78	27.12	-87.707	-99.19	1,216.23	1,181.59	1,142.51	39.08	30.236	
7,900.00	7,894.39	7,876.77	7,873.54	23.10	27.46	-88.009	-96.99	1,217.90	1,183.35	1,143.83	39.52	29.940	
8,000.00	7,994.30	7,984.80	7,981.54	23.42	27.82	-88.315	-95.02	1,219.13	1,184.60	1,144.61	39.99	29.621	
8,100.00	8,094.21	8,091.09	8,087.81	23.75	28.18	-88.633	-92.82	1,219.69	1,185.32	1,144.86	40.46	29.299	
8,200.00	8,194.13	8,196.51	8,193.20	24.07	28.54	-88.944	-90.80	1,219.67	1,185.50	1,144.58	40.92	28.972	
8,300.00	8,294.04	8,299.12	8,295.80	24.39	28.88	-89.232	-89.19	1,219.36	1,185.38	1,144.01	41.37	28.650	
8,400.00	8,393.95	8,397.99	8,394.66	24.71	29.22	-89.501	-87.82	1,218.99	1,185.20	1,143.38	41.82	28.342	
8,500.00	8,493.86	8,499.58	8,496.24	25.03	29.57	-89.768	-86.62	1,218.69	1,185.07	1,142.80	42.27	28.035	
8,582.04	8,575.83	8,579.14	8,575.80	25.29	29.84	-89.972	-85.77	1,218.43	1,184.96	1,142.33	42.63	27.795	
8,600.00	8,593.77	8,596.37	8,593.03	25.35	29.90	-90.017	-85.57	1,218.41	1,184.96	1,142.25	42.71	27.745	
8,700.00	8,693.68	8,692.02	8,688.67	25.67	30.22	-90.260	-84.56	1,218.46	1,185.22	1,142.07	43.14	27.472	
8,800.00	8,793.59	8,790.28	8,786.92	26.00	30.55	-90.500	-83.64	1,218.79	1,185.75	1,142.16	43.58	27.206	
8,900.00	8,893.50	8,888.47	8,885.11	26.32	30.89	-90.740	-82.70	1,219.25	1,186.43	1,142.40	44.03	26.948	
9,000.00	8,993.42	8,984.00	8,980.63	26.64	31.21	-90.981	-81.61	1,219.85	1,187.33	1,142.87	44.46	26.706	
9,100.00	9,093.33	9,082.55	9,079.17	26.96	31.54	-91.234	-80.33	1,220.69	1,188.50	1,143.59	44.91	26.466	
9,200.00	9,193.24	9,184.97	9,181.58	27.29	31.89	-91.490	-79.11	1,221.59	1,189.70	1,144.33	45.37	26.223	
9,300.00	9,293.15	9,288.87	9,285.47	27.61	32.24	-91.752	-77.92	1,222.16	1,190.59	1,144.75	45.84	25.974	
9,400.00	9,393.06	9,387.73	9,384.32	27.93	32.58	-92.003	-76.75	1,222.61	1,191.41	1,145.13	46.29	25.739	
9,500.00	9,492.97	9,487.28	9,483.87	28.25	32.92	-92.253	-75.59	1,223.14	1,192.34	1,145.60	46.74	25.508	
9,600.00	9,592.88	9,591.85	9,588.43	28.58	33.28	-92.509	-74.53	1,223.61	1,193.17	1,145.95	47.22	25.268	
9,700.00	9,692.79	9,701.50	9,698.08	28.90	33.66	-92.764	-73.86	1,223.41	1,193.32	1,145.60	47.72	25.007	
9,800.00	9,792.71	9,802.76	9,799.34	29.22	34.01	-92.974	-73.89	1,222.79	1,192.92	1,144.73	48.19	24.753	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com - 514H - OH / 68224 - Suveys (H&P 474)												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 176-MWD+HDGM												<b>Offset Well Error:</b>	1.00 usft
<b>Rule Assigned:</b>												<b>Warning</b>	
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	9,892.62	9,905.27	9,901.84	29.55	34.38	-93.169	-74.28	1,222.24	1,192.55	1,143.87	48.67	24.501	
10,000.00	9,992.53	10,008.40	10,004.97	29.87	34.74	-93.350	-75.05	1,221.45	1,191.87	1,142.71	49.16	24.246	
10,100.00	10,092.44	10,107.39	10,103.94	30.19	35.09	-93.516	-75.97	1,220.63	1,191.09	1,141.47	49.63	24.001	
10,200.00	10,192.35	10,215.25	10,211.80	30.52	35.48	-93.714	-76.70	1,219.39	1,190.09	1,139.96	50.13	23.741	
10,300.00	10,292.26	10,320.95	10,317.47	30.84	35.85	-93.956	-76.62	1,217.28	1,188.45	1,137.82	50.62	23.476	
10,400.00	10,392.17	10,420.31	10,416.81	31.16	36.20	-94.196	-76.37	1,215.04	1,186.62	1,135.52	51.10	23.222	
10,500.00	10,492.08	10,519.76	10,516.24	31.49	36.55	-94.448	-75.83	1,212.91	1,184.99	1,133.41	51.58	22.976	
10,600.00	10,592.00	10,625.26	10,621.71	31.81	36.93	-94.702	-75.69	1,210.24	1,182.90	1,130.83	52.08	22.715	
10,700.00	10,691.91	10,723.95	10,720.37	32.13	37.28	-94.888	-76.60	1,208.02	1,180.84	1,128.29	52.55	22.471	
10,800.00	10,791.82	10,828.61	10,824.98	32.46	37.65	-95.044	-78.42	1,205.75	1,178.66	1,125.61	53.05	22.220	
10,900.00	10,891.73	10,923.06	10,919.39	32.78	37.99	-95.175	-80.34	1,203.51	1,176.23	1,122.72	53.50	21.985	
11,000.00	10,991.64	11,012.87	11,009.17	33.11	38.31	-95.295	-82.03	1,202.26	1,174.77	1,120.83	53.94	21.779	
11,100.00	11,091.55	11,109.03	11,105.32	33.43	38.65	-95.439	-83.40	1,201.37	1,173.88	1,119.48	54.41	21.576	
11,200.00	11,191.46	11,208.76	11,205.04	33.75	39.00	-95.594	-84.68	1,200.54	1,173.15	1,118.26	54.88	21.375	
11,300.00	11,291.37	11,311.88	11,308.13	34.08	39.37	-95.733	-86.44	1,199.69	1,172.31	1,116.93	55.38	21.170	
11,400.00	11,391.29	11,411.34	11,407.57	34.40	39.72	-95.864	-88.29	1,198.68	1,171.25	1,115.40	55.85	20.970	
11,500.00	11,491.20	11,505.96	11,502.16	34.73	40.06	-95.959	-90.55	1,198.15	1,170.49	1,114.18	56.31	20.787	
11,600.00	11,591.11	11,606.87	11,603.03	35.05	40.41	-96.028	-93.50	1,198.06	1,170.04	1,113.26	56.78	20.605	
11,700.00	11,691.02	11,712.33	11,708.44	35.38	40.78	-96.091	-96.87	1,197.67	1,169.25	1,111.97	57.28	20.414	
11,800.00	11,790.93	11,816.73	11,812.75	35.70	41.16	-96.125	-100.90	1,197.00	1,168.01	1,110.25	57.76	20.221	
11,900.00	11,890.84	11,910.00	11,905.95	36.03	41.49	-96.146	-104.68	1,196.45	1,166.77	1,108.56	58.21	20.044	
11,907.54	11,898.38	11,919.48	11,915.42	36.05	41.52	-96.148	-105.05	1,196.42	1,166.69	1,108.44	58.25	20.028	
12,000.00	11,990.80	12,005.63	12,001.52	36.33	41.82	-96.091	-108.26	1,196.28	1,165.85	1,107.21	58.64	19.880	
12,028.24	12,019.04	12,034.73	12,030.59	36.36	41.93	73.941	-109.27	1,196.28	1,165.60	1,106.85	58.75	19.841	
12,100.00	12,090.80	12,108.63	12,104.46	36.36	42.19	74.058	-111.77	1,196.17	1,164.82	1,105.83	58.99	19.746	
12,200.00	12,190.80	12,207.29	12,203.06	36.36	42.54	74.202	-114.91	1,195.80	1,163.59	1,104.27	59.33	19.614	
12,300.00	12,290.80	12,298.75	12,294.49	36.36	42.86	74.298	-116.97	1,195.73	1,162.91	1,103.27	59.64	19.498	
12,400.00	12,390.80	12,401.76	12,397.49	36.37	43.22	74.373	-118.51	1,195.85	1,162.62	1,102.62	60.01	19.375	
12,500.00	12,490.80	12,621.95	12,612.10	36.37	44.00	76.370	-159.98	1,196.77	1,159.38	1,098.70	60.68	19.105	
12,528.24	12,519.04	12,641.60	12,630.05	36.37	44.07	76.758	-167.98	1,196.82	1,156.55	1,095.83	60.72	19.049	
12,550.00	12,540.79	12,660.00	12,646.61	36.40	44.14	-102.507	-175.97	1,197.11	1,154.63	1,093.87	60.76	19.003	
12,600.00	12,590.61	12,682.69	12,666.80	36.63	44.22	-102.380	-186.30	1,197.85	1,151.60	1,090.74	60.87	18.921	
12,648.20	12,638.13	12,707.00	12,688.19	36.94	44.30	-102.083	-197.78	1,199.17	1,150.64	1,089.63	61.01	18.859 CC	
12,650.00	12,639.89	12,707.00	12,688.19	36.95	44.30	-102.083	-197.78	1,199.17	1,150.64	1,089.63	61.02	18.858	
12,700.00	12,688.24	12,751.57	12,726.80	37.29	44.45	-101.420	-219.80	1,202.37	1,151.31	1,090.05	61.26	18.795	
12,750.00	12,735.30	12,794.17	12,763.02	37.62	44.60	-100.775	-241.96	1,205.92	1,153.22	1,091.70	61.53	18.743	
12,800.00	12,780.72	12,878.17	12,829.92	37.96	44.89	-99.634	-292.00	1,213.39	1,155.58	1,093.62	61.96	18.651	
12,850.00	12,824.15	13,025.24	12,922.66	38.29	45.39	-96.970	-405.10	1,222.02	1,154.88	1,092.06	62.81	18.386	
12,900.00	12,865.26	13,073.38	12,946.57	38.60	45.56	-96.021	-446.81	1,224.06	1,154.05	1,090.82	63.23	18.251	
12,935.59	12,892.93	13,109.11	12,962.35	38.81	45.68	-95.290	-478.82	1,225.72	1,153.90	1,090.34	63.56	18.154	
12,950.00	12,903.73	13,123.71	12,968.13	38.90	45.73	-94.977	-492.22	1,226.43	1,153.92	1,090.23	63.70	18.116	
13,000.00	12,939.27	13,172.60	12,984.48	39.18	45.90	-93.872	-538.20	1,228.92	1,154.38	1,090.20	64.18	17.985	
13,050.00	12,971.62	13,227.25	12,996.26	39.43	46.08	-92.510	-591.43	1,231.76	1,155.32	1,090.57	64.75	17.843	
13,100.00	13,000.52	13,253.08	12,999.17	39.65	46.16	-91.715	-617.05	1,233.26	1,157.08	1,092.01	65.07	17.782	
13,150.00	13,025.76	13,281.37	13,000.87	39.85	46.25	-90.779	-645.21	1,235.38	1,160.13	1,094.68	65.45	17.726	
13,200.00	13,047.14	13,325.47	13,002.63	40.02	46.40	-89.546	-689.13	1,238.94	1,163.94	1,097.96	65.98	17.641	
13,250.00	13,064.50	13,370.00	13,004.17	40.15	46.54	-88.447	-733.48	1,242.60	1,168.05	1,101.52	66.53	17.556	
13,300.00	13,077.71	13,411.98	13,004.97	40.26	46.70	-87.510	-775.30	1,246.19	1,172.39	1,105.29	67.11	17.471	
13,350.00	13,086.67	13,453.48	13,004.69	40.33	46.86	-86.685	-816.63	1,249.92	1,176.95	1,109.26	67.69	17.387	
13,400.00	13,091.30	13,499.00	13,003.15	40.38	47.03	-85.957	-861.92	1,254.23	1,181.63	1,113.31	68.33	17.294	
13,428.24	13,092.00	13,518.02	13,002.25	40.39	47.11	-85.634	-880.82	1,256.12	1,184.30	1,115.65	68.65	17.252	
13,500.00	13,092.00	13,575.66	12,999.66	40.40	47.36	-85.530	-938.07	1,262.30	1,191.53	1,121.96	69.56	17.129	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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		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		
13,600.00	13,092.00	13,753.99	12,992.63	40.43	48.19	-85.241	-1,115.63	1,276.48	1,198.75	1,126.96	71.80	16.696			
13,700.00	13,092.00	13,926.78	12,987.57	40.46	49.11	-85.001	-1,288.29	1,278.51	1,198.77	1,124.52	74.25	16.145			
13,800.00	13,092.00	14,030.31	12,986.79	40.50	49.70	-84.952	-1,391.81	1,276.76	1,196.17	1,120.21	75.97	15.746			
13,900.00	13,092.00	14,122.78	12,987.58	40.53	50.26	-84.983	-1,484.27	1,276.00	1,194.32	1,116.71	77.60	15.390			
14,000.00	13,092.00	14,213.03	12,987.99	40.58	50.83	-84.998	-1,574.52	1,275.72	1,193.02	1,113.75	79.27	15.049			
14,063.95	13,092.00	14,267.37	12,988.47	40.61	51.19	-85.020	-1,628.86	1,276.04	1,192.74	1,112.41	80.33	14.848			
14,100.00	13,092.00	14,296.05	12,988.83	40.63	51.39	-85.038	-1,657.53	1,276.44	1,192.85	1,111.94	80.91	14.742			
14,200.00	13,092.00	14,372.44	12,990.17	40.69	51.92	-85.107	-1,733.88	1,278.44	1,194.38	1,111.85	82.53	14.473			
14,300.00	13,092.00	14,451.18	12,991.97	40.76	52.48	-85.207	-1,812.50	1,282.41	1,198.16	1,113.95	84.21	14.227			
14,400.00	13,092.00	14,611.85	12,989.01	40.85	53.70	-85.072	-1,973.05	1,285.63	1,198.97	1,111.99	86.98	13.785			
14,500.00	13,092.00	14,710.05	12,985.05	40.95	54.47	-84.879	-2,071.18	1,285.49	1,198.23	1,109.24	88.99	13.464			
14,549.36	13,092.00	14,753.09	12,983.83	41.02	54.82	-84.820	-2,114.20	1,285.66	1,198.08	1,108.15	89.93	13.322			
14,600.00	13,092.00	14,795.86	12,982.95	41.10	55.17	-84.778	-2,156.96	1,286.14	1,198.24	1,107.36	90.88	13.184			
14,700.00	13,092.00	14,891.42	12,981.34	41.29	55.97	-84.705	-2,252.49	1,287.83	1,199.20	1,106.27	92.94	12.904			
14,800.00	13,092.00	14,995.24	12,979.40	41.57	56.85	-84.616	-2,356.27	1,289.60	1,200.11	1,104.98	95.13	12.616			
14,900.00	13,092.00	15,098.50	12,978.91	41.99	57.77	-84.595	-2,459.52	1,291.13	1,200.68	1,103.32	97.36	12.332			
15,000.00	13,092.00	15,195.00	12,979.40	42.60	58.64	-84.620	-2,556.01	1,292.42	1,201.01	1,101.49	99.52	12.068			
15,100.00	13,092.00	15,289.00	12,980.03	43.42	59.50	-84.654	-2,649.99	1,294.22	1,201.90	1,100.22	101.68	11.821			
15,200.00	13,092.00	15,376.16	12,979.55	44.43	60.32	-84.638	-2,737.11	1,296.70	1,203.81	1,100.04	103.76	11.602			
15,300.00	13,092.00	15,477.33	12,978.97	45.56	61.30	-84.621	-2,838.23	1,299.93	1,206.09	1,100.02	106.07	11.371			
15,400.00	13,092.00	15,564.47	12,979.55	46.76	62.15	-84.659	-2,925.30	1,303.22	1,208.82	1,100.62	108.20	11.172			
15,500.00	13,092.00	15,662.68	12,979.93	48.01	63.13	-84.692	-3,023.41	1,307.52	1,212.19	1,101.67	110.52	10.969			
15,600.00	13,092.00	15,765.22	12,979.39	49.30	64.16	-84.681	-3,125.86	1,311.84	1,215.47	1,102.56	112.91	10.765			
15,700.00	13,092.00	15,859.82	12,978.03	50.61	65.14	-84.631	-3,220.37	1,315.86	1,218.88	1,103.67	115.21	10.580			
15,800.00	13,092.00	15,954.19	12,976.47	51.93	66.13	-84.574	-3,314.62	1,320.28	1,222.74	1,105.21	117.52	10.404			
15,900.00	13,092.00	16,050.32	12,974.23	53.27	67.15	-84.487	-3,410.60	1,325.20	1,227.09	1,107.22	119.87	10.237			
16,000.00	13,092.00	16,203.87	12,971.62	54.61	68.80	-84.380	-3,564.05	1,329.69	1,229.16	1,106.06	123.10	9.985			
16,100.00	13,092.00	16,319.01	12,970.85	55.97	70.04	-84.339	-3,679.18	1,329.82	1,228.35	1,102.60	125.75	9.768			
16,200.00	13,092.00	16,440.32	12,971.67	57.33	71.38	-84.365	-3,800.47	1,328.34	1,226.07	1,097.58	128.49	9.542			
16,300.00	13,092.00	16,536.68	12,976.01	58.69	72.45	-84.558	-3,896.72	1,327.16	1,223.45	1,092.51	130.94	9.343			
16,400.00	13,092.00	16,649.99	12,978.68	60.06	73.72	-84.667	-4,009.97	1,324.71	1,220.11	1,086.50	133.61	9.132			
16,500.00	13,092.00	16,749.20	12,979.65	61.44	74.84	-84.696	-4,109.14	1,322.01	1,216.34	1,080.24	136.10	8.937			
16,600.00	13,092.00	16,844.67	12,979.72	62.81	75.93	-84.686	-4,204.57	1,319.60	1,212.86	1,074.30	138.56	8.753			
16,700.00	13,092.00	16,962.53	12,976.90	64.20	77.28	-84.532	-4,322.35	1,316.17	1,209.31	1,068.03	141.28	8.560			
16,800.00	13,092.00	17,094.11	12,972.62	65.58	78.80	-84.290	-4,453.65	1,308.91	1,203.15	1,059.05	144.10	8.350			
16,900.00	13,092.00	17,150.69	12,971.73	66.97	79.46	-84.233	-4,510.17	1,306.44	1,197.82	1,051.63	146.18	8.194			
17,000.00	13,092.00	17,212.68	12,971.88	68.36	80.19	-84.234	-4,572.15	1,305.67	1,195.60	1,047.35	148.25	8.065			
17,019.26	13,092.00	17,224.55	12,971.89	68.63	80.33	-84.234	-4,584.02	1,305.75	1,195.54	1,046.90	148.64	8.043			
17,100.00	13,092.00	17,273.00	12,971.74	69.75	80.91	-84.230	-4,632.46	1,306.81	1,196.59	1,046.39	150.20	7.967			
17,200.00	13,092.00	17,347.30	12,971.85	71.14	81.80	-84.248	-4,706.67	1,310.29	1,200.29	1,047.96	152.33	7.880			
17,300.00	13,092.00	17,489.68	12,972.84	72.54	83.51	-84.320	-4,848.87	1,316.96	1,204.17	1,048.49	155.68	7.735			
17,400.00	13,092.00	17,613.08	12,973.46	73.94	85.01	-84.348	-4,972.27	1,317.85	1,203.73	1,045.09	158.63	7.588			
17,500.00	13,092.00	17,719.99	12,973.51	75.34	86.31	-84.347	-5,079.18	1,318.13	1,203.04	1,041.71	161.34	7.457			
17,570.37	13,092.00	17,775.93	12,972.90	76.32	86.99	-84.315	-5,135.11	1,318.04	1,202.39	1,039.43	162.97	7.378			
17,600.00	13,092.00	17,794.95	12,972.66	76.74	87.22	-84.304	-5,154.13	1,318.28	1,202.52	1,038.94	163.58	7.351			
17,700.00	13,092.00	17,863.44	12,971.94	78.14	88.07	-84.278	-5,222.58	1,320.50	1,204.83	1,039.16	165.67	7.273			
17,800.00	13,092.00	17,950.33	12,973.74	79.55	89.15	-84.382	-5,309.31	1,325.39	1,209.22	1,041.15	168.08	7.195			
17,900.00	13,092.00	18,094.26	12,979.19	80.95	90.95	-84.656	-5,453.02	1,330.69	1,211.38	1,039.84	171.55	7.062			
18,000.00	13,092.00	18,187.29	12,982.52	82.36	92.12	-84.819	-5,545.97	1,332.81	1,212.39	1,038.27	174.11	6.963			
18,100.00	13,092.00	18,280.01	12,984.97	83.76	93.29	-84.942	-5,638.61	1,335.73	1,214.32	1,037.65	176.67	6.873			
18,200.00	13,092.00	18,414.22	12,987.61	85.17	94.98	-85.073	-5,772.76	1,338.71	1,215.53	1,035.64	179.89	6.757			
18,300.00	13,092.00	18,513.64	12,988.05	86.58	96.23	-85.092	-5,872.17	1,339.20	1,215.02	1,032.47	182.55	6.656			

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com - 514H - OH / 68224 - Suveys (H&P 474)												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 176-MWD+HDGM												<b>Offset Well Error:</b>	1.00 usft
<b>Rule Assigned:</b>												<b>Warning</b>	
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	
18,400.00	13,092.00	18,618.00	12,987.84	87.99	97.55	-85.078	-5,976.53	1,339.33	1,214.20	1,028.93	185.27	6.554	
18,500.00	13,092.00	18,735.85	12,987.44	89.40	99.05	-85.053	-6,094.37	1,338.79	1,212.87	1,024.70	188.17	6.446	
18,600.00	13,092.00	18,830.92	12,987.19	90.81	100.26	-85.029	-6,189.42	1,336.80	1,209.89	1,019.11	190.78	6.342	
18,700.00	13,092.00	18,920.13	12,987.54	92.23	101.40	-85.042	-6,278.63	1,336.81	1,208.84	1,015.51	193.33	6.253	
18,800.00	13,092.00	19,041.07	12,985.27	93.64	102.95	-84.923	-6,399.53	1,335.14	1,206.64	1,010.39	196.25	6.148	
18,900.00	13,092.00	19,144.63	12,981.06	95.06	104.28	-84.708	-6,502.97	1,332.49	1,203.50	1,004.55	198.95	6.049	
19,000.00	13,092.00	19,247.31	12,977.98	96.47	105.60	-84.546	-6,605.57	1,329.80	1,200.22	998.58	201.64	5.952	
19,100.00	13,092.00	19,331.34	12,977.38	97.89	106.68	-84.506	-6,689.58	1,328.17	1,197.40	993.26	204.15	5.865	
19,200.00	13,092.00	19,418.17	12,976.96	99.30	107.80	-84.480	-6,776.40	1,327.67	1,195.91	989.24	206.67	5.787	
19,300.00	13,092.00	19,522.37	12,977.40	100.72	109.16	-84.496	-6,880.60	1,327.71	1,194.96	985.52	209.44	5.705	
19,400.00	13,092.00	19,616.09	12,979.91	102.14	110.39	-84.612	-6,974.28	1,327.73	1,193.77	981.68	212.09	5.629	
19,500.00	13,092.00	19,728.71	12,982.03	103.55	111.86	-84.708	-7,086.88	1,327.70	1,192.63	977.63	215.00	5.547	
19,572.03	13,092.00	19,778.53	12,981.92	104.58	112.52	-84.701	-7,136.69	1,327.70	1,191.96	975.31	216.65	5.502	
19,600.00	13,092.00	19,797.83	12,981.76	104.97	112.77	-84.694	-7,155.99	1,327.94	1,192.06	974.79	217.27	5.486	
19,700.00	13,092.00	19,882.48	12,980.79	106.39	113.88	-84.653	-7,240.62	1,330.08	1,193.68	973.95	219.73	5.433	
19,800.00	13,092.00	19,976.47	12,980.28	107.81	115.13	-84.638	-7,334.55	1,333.07	1,195.94	973.60	222.34	5.379	
19,900.00	13,092.00	20,077.57	12,979.18	109.23	116.47	-84.597	-7,435.58	1,336.56	1,198.53	973.43	225.09	5.325	
20,000.00	13,092.00	20,175.44	12,977.36	110.65	117.77	-84.520	-7,533.39	1,339.70	1,200.94	973.16	227.78	5.272	
20,100.00	13,092.00	20,293.38	12,974.89	112.07	119.34	-84.413	-7,651.25	1,343.06	1,203.06	972.24	230.82	5.212	
20,200.00	13,092.00	20,391.26	12,973.85	113.49	120.64	-84.369	-7,749.11	1,345.04	1,204.22	970.70	233.52	5.157	
20,300.00	13,092.00	20,492.43	12,972.30	114.91	121.99	-84.301	-7,850.24	1,347.15	1,205.49	969.22	236.27	5.102	
20,400.00	13,092.00	20,614.44	12,968.21	116.34	123.62	-84.108	-7,972.18	1,348.34	1,205.86	966.55	239.31	5.039	
20,500.00	13,092.00	20,727.47	12,964.76	117.76	125.12	-83.934	-8,085.15	1,347.39	1,204.34	962.16	242.19	4.973	
20,600.00	13,092.00	20,826.67	12,962.01	119.18	126.45	-83.794	-8,184.30	1,346.40	1,202.69	957.81	244.88	4.911	
20,700.00	13,092.00	20,918.00	12,960.06	120.60	127.67	-83.693	-8,275.61	1,345.55	1,201.08	953.59	247.49	4.853	
20,711.06	13,092.00	20,918.00	12,960.06	120.76	127.67	-83.693	-8,275.61	1,345.55	1,201.02	953.39	247.63	4.850 ES, SF	
20,800.00	13,092.00	20,918.00	12,960.06	122.03	127.67	-83.693	-8,275.61	1,345.55	1,204.31	956.19	248.13	4.854	
20,900.00	13,092.00	20,918.00	12,960.06	123.45	127.67	-83.693	-8,275.61	1,345.55	1,215.80	968.48	247.32	4.916	
21,000.00	13,092.00	20,918.00	12,960.06	124.87	127.67	-83.693	-8,275.61	1,345.55	1,235.29	990.14	245.16	5.039	
21,100.00	13,092.00	20,918.00	12,960.06	126.30	127.67	-83.693	-8,275.61	1,345.55	1,262.43	1,020.61	241.82	5.221	
21,200.00	13,092.00	20,918.00	12,960.06	127.72	127.67	-83.693	-8,275.61	1,345.55	1,296.74	1,059.21	237.52	5.459	
21,300.00	13,092.00	20,918.00	12,960.06	129.15	127.67	-83.693	-8,275.61	1,345.55	1,337.65	1,105.15	232.50	5.753	
21,400.00	13,092.00	20,918.00	12,960.06	130.57	127.67	-83.693	-8,275.61	1,345.55	1,384.59	1,157.61	226.98	6.100	
21,500.00	13,092.00	20,918.00	12,960.06	132.00	127.67	-83.693	-8,275.61	1,345.55	1,436.97	1,215.80	221.17	6.497	
21,600.00	13,092.00	20,918.00	12,960.06	133.42	127.67	-83.693	-8,275.61	1,345.55	1,494.21	1,278.97	215.24	6.942	
21,700.00	13,092.00	20,918.00	12,960.06	134.85	127.67	-83.693	-8,275.61	1,345.55	1,555.78	1,346.46	209.32	7.432	
21,800.00	13,092.00	20,918.00	12,960.06	136.27	127.67	-83.693	-8,275.61	1,345.55	1,621.19	1,417.66	203.53	7.965	
21,900.00	13,092.00	20,918.00	12,960.06	137.70	127.67	-83.693	-8,275.61	1,345.55	1,689.98	1,492.06	197.92	8.539	
22,000.00	13,092.00	20,918.00	12,960.06	139.12	127.67	-83.693	-8,275.61	1,345.55	1,761.77	1,569.20	192.56	9.149	
22,100.00	13,092.00	20,918.00	12,960.06	140.55	127.67	-83.693	-8,275.61	1,345.55	1,836.20	1,648.72	187.47	9.794	
22,200.00	13,092.00	20,918.00	12,960.06	141.98	127.67	-83.693	-8,275.61	1,345.55	1,912.96	1,730.29	182.67	10.472	
22,300.00	13,092.00	20,918.00	12,960.06	143.40	127.67	-83.693	-8,275.61	1,345.55	1,991.78	1,813.62	178.16	11.180	
22,400.00	13,092.00	20,918.00	12,960.06	144.83	127.67	-83.693	-8,275.61	1,345.55	2,072.43	1,898.50	173.94	11.915	
22,500.00	13,092.00	20,918.00	12,960.06	146.26	127.67	-83.693	-8,275.61	1,345.55	2,154.71	1,984.72	169.99	12.676	
22,600.00	13,092.00	20,918.00	12,960.06	147.69	127.67	-83.693	-8,275.61	1,345.55	2,238.43	2,072.12	166.31	13.459	
22,700.00	13,092.00	20,918.00	12,960.06	149.11	127.67	-83.693	-8,275.61	1,345.55	2,323.43	2,160.55	162.88	14.264	
22,728.24	13,092.00	20,918.00	12,960.06	149.52	127.67	-83.693	-8,275.61	1,345.55	2,347.66	2,185.70	161.96	14.495	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com (NAD83) - El Campeon Fed Com 412H - OH - Plan 1 08-31-22													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+HRGM													<b>Offset Well Error:</b> 1.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum</b>	<b>Separation</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Separation (usft)</b>	<b>Factor</b>	
0.00	0.00	0.00	0.00	1.00	1.00	-90.470	-10.33	-1,260.20	1,260.24				
100.00	100.00	100.00	100.00	1.08	1.08	-90.470	-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	-90.470	-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	-90.470	-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	-90.470	-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	-90.470	-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	-90.470	-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	-90.470	-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	-90.470	-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	-90.470	-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	-90.470	-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	-90.470	-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	-90.470	-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	-90.470	-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	-90.470	-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	-90.470	-10.33	-1,260.20	1,260.24	1,250.68	9.56	131.757 CC, ES	
1,600.00	1,599.98	1,570.60	1,570.59	4.98	4.96	99.558	-10.62	-1,261.02	1,261.70	1,251.84	9.85	128.026	
1,620.70	1,620.67	1,585.20	1,585.19	4.99	4.99	99.564	-10.75	-1,261.39	1,262.36	1,252.47	9.89	127.614	
1,700.00	1,699.89	1,645.76	1,645.70	5.07	5.08	99.642	-11.55	-1,263.65	1,265.85	1,255.82	10.03	126.159	
1,800.00	1,799.81	1,745.60	1,745.44	5.23	5.22	99.763	-13.06	-1,267.92	1,270.84	1,260.55	10.29	123.508	
1,900.00	1,899.72	1,845.44	1,845.18	5.41	5.39	99.882	-14.57	-1,272.19	1,275.84	1,265.25	10.59	120.477	
2,000.00	1,999.63	1,945.28	1,944.91	5.60	5.59	100.000	-16.07	-1,276.46	1,280.85	1,269.94	10.91	117.433	
2,100.00	2,099.54	2,045.12	2,044.65	5.80	5.79	100.117	-17.58	-1,280.72	1,285.86	1,274.62	11.23	114.451	
2,200.00	2,199.45	2,144.96	2,144.39	6.02	6.01	100.234	-19.09	-1,284.99	1,290.87	1,279.30	11.57	111.548	
2,300.00	2,299.36	2,244.80	2,244.12	6.24	6.24	100.349	-20.60	-1,289.26	1,295.89	1,283.97	11.92	108.732	
2,400.00	2,399.27	2,344.64	2,343.86	6.47	6.48	100.464	-22.11	-1,293.52	1,300.92	1,288.64	12.27	106.010	
2,500.00	2,499.18	2,444.48	2,443.60	6.72	6.72	100.578	-23.62	-1,297.79	1,305.95	1,293.31	12.63	103.385	
2,600.00	2,599.10	2,544.32	2,543.34	6.96	6.98	100.691	-25.12	-1,302.06	1,310.98	1,297.98	13.00	100.859	
2,700.00	2,699.01	2,644.16	2,643.07	7.22	7.23	100.803	-26.63	-1,306.32	1,316.02	1,302.65	13.37	98.431	
2,800.00	2,798.92	2,744.00	2,742.81	7.48	7.50	100.914	-28.14	-1,310.59	1,321.07	1,307.32	13.75	96.101	
2,900.00	2,898.83	2,843.84	2,842.55	7.74	7.77	101.024	-29.65	-1,314.86	1,326.12	1,311.99	14.13	93.866	
3,000.00	2,998.74	2,943.68	2,942.29	8.01	8.04	101.134	-31.16	-1,319.13	1,331.17	1,316.66	14.51	91.725	
3,100.00	3,098.65	3,043.52	3,042.02	8.28	8.32	101.243	-32.66	-1,323.39	1,336.23	1,321.33	14.90	89.672	
3,200.00	3,198.56	3,143.36	3,141.76	8.56	8.60	101.350	-34.17	-1,327.66	1,341.30	1,326.01	15.29	87.706	
3,300.00	3,298.47	3,243.20	3,241.50	8.84	8.89	101.457	-35.68	-1,331.93	1,346.37	1,330.68	15.69	85.822	
3,400.00	3,398.39	3,343.04	3,341.23	9.13	9.18	101.564	-37.19	-1,336.19	1,351.44	1,335.36	16.09	84.017	
3,500.00	3,498.30	3,442.88	3,440.97	9.41	9.47	101.669	-38.70	-1,340.46	1,356.52	1,340.04	16.49	82.287	
3,600.00	3,598.21	3,542.72	3,540.71	9.70	9.77	101.774	-40.20	-1,344.73	1,361.61	1,344.72	16.89	80.629	
3,700.00	3,698.12	3,642.56	3,640.45	9.99	10.06	101.878	-41.71	-1,348.99	1,366.69	1,349.40	17.29	79.039	
3,800.00	3,798.03	3,742.40	3,740.18	10.29	10.36	101.981	-43.22	-1,353.26	1,371.79	1,354.09	17.70	77.514	
3,900.00	3,897.94	3,842.24	3,839.92	10.58	10.66	102.083	-44.73	-1,357.53	1,376.88	1,358.78	18.11	76.050	
4,000.00	3,997.85	3,942.08	3,939.66	10.88	10.96	102.185	-46.24	-1,361.80	1,381.98	1,363.47	18.51	74.644	
4,100.00	4,097.76	4,041.92	4,039.40	11.18	11.27	102.286	-47.74	-1,366.06	1,387.09	1,368.16	18.93	73.294	
4,200.00	4,197.68	4,141.76	4,139.13	11.48	11.58	102.386	-49.25	-1,370.33	1,392.20	1,372.86	19.34	71.996	
4,300.00	4,297.59	4,241.60	4,238.87	11.78	11.88	102.485	-50.76	-1,374.60	1,397.31	1,377.56	19.75	70.748	
4,400.00	4,397.50	4,341.44	4,338.61	12.08	12.19	102.584	-52.27	-1,378.86	1,402.43	1,382.27	20.17	69.547	
4,500.00	4,497.41	4,441.28	4,438.34	12.39	12.50	102.682	-53.78	-1,383.13	1,407.55	1,386.97	20.58	68.392	
4,600.00	4,597.32	4,541.12	4,538.08	12.69	12.81	102.779	-55.28	-1,387.40	1,412.68	1,391.68	21.00	67.279	
4,700.00	4,697.23	4,640.96	4,637.82	13.00	13.12	102.875	-56.79	-1,391.67	1,417.81	1,396.39	21.42	66.206	
4,800.00	4,797.14	4,740.80	4,737.56	13.31	13.44	102.971	-58.30	-1,395.93	1,422.94	1,401.11	21.83	65.172	
4,900.00	4,897.05	4,840.64	4,837.29	13.62	13.75	103.066	-59.81	-1,400.20	1,428.08	1,405.83	22.25	64.174	
5,000.00	4,996.97	4,940.48	4,937.03	13.92	14.06	103.161	-61.32	-1,404.47	1,433.22	1,410.55	22.67	63.212	

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





## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 412H - OH - Plan 1 08-31-22													Offset Site Error:	0.00 usft	
Survey Program:		0-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		
5,100.00	5,096.88	5,040.32	5,036.77	14.23	14.38	103.255	-62.82	-1,408.73	1,438.37	1,415.28	23.09	62.282			
5,200.00	5,196.79	5,140.16	5,136.51	14.55	14.70	103.348	-64.33	-1,413.00	1,443.52	1,420.00	23.52	61.384			
5,300.00	5,296.70	5,240.00	5,236.24	14.86	15.01	103.440	-65.84	-1,417.27	1,448.67	1,424.74	23.94	60.516			
5,400.00	5,396.61	5,339.84	5,335.98	15.17	15.33	103.532	-67.35	-1,421.53	1,453.83	1,429.47	24.36	59.677			
5,500.00	5,496.52	5,439.68	5,435.72	15.48	15.65	103.623	-68.86	-1,425.80	1,458.99	1,434.21	24.79	58.865			
5,600.00	5,596.43	5,539.52	5,535.45	15.79	15.97	103.714	-70.36	-1,430.07	1,464.16	1,438.95	25.21	58.079			
5,700.00	5,696.34	5,639.36	5,635.19	16.11	16.29	103.804	-71.87	-1,434.34	1,469.33	1,443.69	25.63	57.318			
5,800.00	5,796.26	5,739.20	5,734.93	16.42	16.61	103.893	-73.38	-1,438.60	1,474.50	1,448.44	26.06	56.580			
5,900.00	5,896.17	5,839.04	5,834.67	16.74	16.93	103.981	-74.89	-1,442.87	1,479.67	1,453.19	26.49	55.866			
6,000.00	5,996.08	5,938.88	5,934.40	17.05	17.25	104.069	-76.40	-1,447.14	1,484.85	1,457.94	26.91	55.173			
6,100.00	6,095.99	6,038.72	6,034.14	17.37	17.57	104.157	-77.91	-1,451.40	1,490.03	1,462.69	27.34	54.501			
6,200.00	6,195.90	6,138.56	6,133.88	17.68	17.89	104.244	-79.41	-1,455.67	1,495.22	1,467.45	27.77	53.849			
6,300.00	6,295.81	6,238.40	6,233.62	18.00	18.21	104.330	-80.92	-1,459.94	1,500.41	1,472.21	28.20	53.215			
6,400.00	6,395.72	6,338.24	6,333.35	18.32	18.53	104.415	-82.43	-1,464.20	1,505.60	1,476.98	28.62	52.600			
6,500.00	6,495.63	6,438.08	6,433.09	18.63	18.85	104.500	-83.94	-1,468.47	1,510.80	1,481.75	29.05	52.003			
6,600.00	6,595.55	6,537.92	6,532.83	18.95	19.18	104.585	-85.45	-1,472.74	1,516.00	1,486.52	29.48	51.422			
6,700.00	6,695.46	6,637.76	6,632.56	19.27	19.50	104.669	-86.95	-1,477.01	1,521.20	1,491.29	29.91	50.857			
6,800.00	6,795.37	6,737.60	6,732.30	19.59	19.82	104.752	-88.46	-1,481.27	1,526.41	1,496.06	30.34	50.308			
6,900.00	6,895.28	6,837.44	6,832.04	19.91	20.15	104.835	-89.97	-1,485.54	1,531.61	1,500.84	30.77	49.774			
7,000.00	6,995.19	6,937.28	6,931.78	20.23	20.47	104.917	-91.48	-1,489.81	1,536.83	1,505.62	31.20	49.254			
7,100.00	7,095.10	7,037.12	7,031.51	20.54	20.80	104.998	-92.99	-1,494.07	1,542.04	1,510.41	31.63	48.747			
7,200.00	7,195.01	7,136.96	7,131.25	20.86	21.12	105.079	-94.49	-1,498.34	1,547.26	1,515.20	32.06	48.254			
7,300.00	7,294.92	7,236.80	7,230.99	21.18	21.45	105.160	-96.00	-1,502.61	1,552.48	1,519.99	32.50	47.774			
7,400.00	7,394.84	7,336.64	7,330.73	21.50	21.77	105.240	-97.51	-1,506.87	1,557.71	1,524.78	32.93	47.305			
7,500.00	7,494.75	7,436.48	7,430.46	21.82	22.10	105.319	-99.02	-1,511.14	1,562.93	1,529.57	33.36	46.849			
7,600.00	7,594.66	7,536.32	7,530.20	22.14	22.42	105.398	-100.53	-1,515.41	1,568.16	1,534.37	33.79	46.404			
7,700.00	7,694.57	7,636.16	7,629.94	22.46	22.75	105.476	-102.03	-1,519.68	1,573.40	1,539.17	34.23	45.969			
7,800.00	7,794.48	7,736.00	7,729.67	22.78	23.07	105.554	-103.54	-1,523.94	1,578.63	1,543.97	34.66	45.546			
7,900.00	7,894.39	7,835.84	7,829.41	23.10	23.40	105.632	-105.05	-1,528.21	1,583.87	1,548.78	35.09	45.132			
8,000.00	7,994.30	7,935.68	7,929.15	23.42	23.72	105.708	-106.56	-1,532.48	1,589.12	1,553.59	35.53	44.728			
8,100.00	8,094.21	8,035.52	8,028.89	23.75	24.05	105.785	-108.07	-1,536.74	1,594.36	1,558.40	35.96	44.334			
8,200.00	8,194.13	8,135.36	8,128.62	24.07	24.38	105.861	-109.57	-1,541.01	1,599.61	1,563.21	36.40	43.949			
8,300.00	8,294.04	8,235.20	8,228.36	24.39	24.70	105.936	-111.08	-1,545.28	1,604.86	1,568.03	36.83	43.572			
8,400.00	8,393.95	8,335.04	8,328.10	24.71	25.03	106.011	-112.59	-1,549.55	1,610.11	1,572.84	37.27	43.205			
8,500.00	8,493.86	8,434.88	8,427.84	25.03	25.36	106.085	-114.10	-1,553.81	1,615.37	1,577.66	37.70	42.845			
8,600.00	8,593.77	8,534.72	8,527.57	25.35	25.68	106.159	-115.61	-1,558.08	1,620.63	1,582.49	38.14	42.493			
8,700.00	8,693.68	8,634.56	8,627.31	25.67	26.01	106.232	-117.11	-1,562.35	1,625.89	1,587.31	38.57	42.150			
8,800.00	8,793.59	8,734.39	8,727.05	26.00	26.34	106.305	-118.62	-1,566.61	1,631.15	1,592.14	39.01	41.813			
8,900.00	8,893.50	8,834.23	8,826.79	26.32	26.67	106.378	-120.13	-1,570.88	1,636.42	1,596.97	39.45	41.484			
9,000.00	8,993.42	8,934.07	8,926.52	26.64	26.99	106.450	-121.64	-1,575.15	1,641.69	1,601.80	39.88	41.162			
9,100.00	9,093.33	9,033.91	9,026.26	26.96	27.32	106.521	-123.15	-1,579.41	1,646.96	1,606.64	40.32	40.847			
9,200.00	9,193.24	9,133.75	9,126.00	27.29	27.65	106.592	-124.65	-1,583.68	1,652.23	1,611.48	40.76	40.538			
9,300.00	9,293.15	9,233.59	9,225.73	27.61	27.98	106.663	-126.16	-1,587.95	1,657.51	1,616.31	41.19	40.236			
9,400.00	9,393.06	9,333.43	9,325.47	27.93	28.30	106.733	-127.67	-1,592.22	1,662.79	1,621.16	41.63	39.940			
9,500.00	9,492.97	9,433.27	9,425.21	28.25	28.63	106.803	-129.18	-1,596.48	1,668.07	1,626.00	42.07	39.649			
9,600.00	9,592.88	9,533.11	9,524.95	28.58	28.96	106.872	-130.69	-1,600.75	1,673.35	1,630.85	42.51	39.365			
9,700.00	9,692.79	9,632.95	9,624.68	28.90	29.29	106.941	-132.20	-1,605.02	1,678.64	1,635.69	42.95	39.086			
9,800.00	9,792.71	9,732.79	9,724.42	29.22	29.62	107.009	-133.70	-1,609.28	1,683.93	1,640.54	43.39	38.813			
9,900.00	9,892.62	9,832.63	9,824.16	29.55	29.95	107.077	-135.21	-1,613.55	1,689.22	1,645.40	43.82	38.545			
10,000.00	9,992.53	9,932.47	9,923.90	29.87	30.27	107.145	-136.72	-1,617.82	1,694.52	1,650.25	44.26	38.283			
10,100.00	10,092.44	10,032.31	10,023.63	30.19	30.60	107.212	-138.23	-1,622.08	1,699.81	1,655.11	44.70	38.025			
10,200.00	10,192.35	10,132.15	10,123.37	30.52	30.93	107.279	-139.74	-1,626.35	1,705.11	1,659.97	45.14	37.772			

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





## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 412H - OH - Plan 1 08-31-22													Offset Site Error:	0.00 usft
Survey Program:		0-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	
10,300.00	10,292.26	10,231.99	10,223.11	30.84	31.26	107.345	-141.24	-1,630.62	1,710.41	1,664.83	45.58	37.524		
10,400.00	10,392.17	10,331.83	10,322.84	31.16	31.59	107.411	-142.75	-1,634.89	1,715.71	1,669.69	46.02	37.281		
10,500.00	10,492.08	10,431.67	10,422.58	31.49	31.92	107.476	-144.26	-1,639.15	1,721.02	1,674.56	46.46	37.042		
10,600.00	10,592.00	10,531.51	10,522.32	31.81	32.25	107.541	-145.77	-1,643.42	1,726.33	1,679.42	46.90	36.808		
10,700.00	10,691.91	10,631.35	10,622.06	32.13	32.58	107.606	-147.28	-1,647.69	1,731.64	1,684.29	47.34	36.577		
10,800.00	10,791.82	10,731.19	10,721.79	32.46	32.90	107.670	-148.78	-1,651.95	1,736.95	1,689.17	47.78	36.351		
10,900.00	10,891.73	10,831.03	10,821.53	32.78	33.23	107.734	-150.29	-1,656.22	1,742.26	1,694.04	48.22	36.129		
11,000.00	10,991.64	10,930.87	10,921.27	33.11	33.56	107.798	-151.80	-1,660.49	1,747.58	1,698.91	48.66	35.911		
11,100.00	11,091.55	11,030.71	11,021.01	33.43	33.89	107.861	-153.31	-1,664.75	1,752.90	1,703.79	49.11	35.697		
11,200.00	11,191.46	11,130.55	11,120.74	33.75	34.22	107.924	-154.82	-1,669.02	1,758.22	1,708.67	49.55	35.486		
11,300.00	11,291.37	11,230.39	11,220.48	34.08	34.55	107.986	-156.32	-1,673.29	1,763.54	1,713.55	49.99	35.279		
11,400.00	11,391.29	11,330.23	11,320.22	34.40	34.88	108.048	-157.83	-1,677.56	1,768.86	1,718.43	50.43	35.076		
11,500.00	11,491.20	11,430.07	11,419.95	34.73	35.21	108.110	-159.34	-1,681.82	1,774.19	1,723.32	50.87	34.878		
11,600.00	11,591.11	11,601.29	11,591.11	35.05	35.53	108.277	-160.54	-1,685.21	1,777.26	1,725.96	51.29	34.649		
11,700.00	11,691.02	11,701.20	11,691.02	35.38	35.54	108.406	-160.54	-1,685.21	1,778.58	1,727.13	51.46	34.564		
11,800.00	11,790.93	11,801.11	11,790.93	35.70	35.56	108.534	-160.54	-1,685.21	1,779.92	1,728.29	51.63	34.477		
11,900.00	11,890.84	11,901.02	11,890.84	36.03	35.58	108.663	-160.54	-1,685.21	1,781.26	1,729.46	51.80	34.387		
11,907.54	11,898.38	11,908.55	11,898.38	36.05	35.58	108.672	-160.54	-1,685.21	1,781.37	1,729.55	51.81	34.380		
12,000.00	11,990.80	12,000.98	11,990.80	36.33	35.60	108.760	-160.54	-1,685.21	1,782.14	1,730.18	51.96	34.301		
12,028.24	12,019.04	12,029.22	12,019.04	36.36	35.60	-81.249	-160.54	-1,685.21	1,782.18	1,730.21	51.97	34.293		
12,100.00	12,090.80	12,128.00	12,117.74	36.36	35.66	-81.329	-163.06	-1,685.18	1,781.98	1,730.03	51.95	34.305		
12,200.00	12,190.80	12,314.57	12,297.40	36.36	35.99	-82.831	-210.21	-1,684.71	1,778.01	1,726.18	51.82	34.308		
12,300.00	12,290.80	12,460.04	12,421.36	36.36	36.31	-85.255	-285.60	-1,683.96	1,771.06	1,719.29	51.76	34.215		
12,400.00	12,390.80	12,564.03	12,496.34	36.37	36.54	-87.584	-357.45	-1,683.24	1,764.19	1,712.38	51.81	34.053		
12,500.00	12,490.80	12,637.57	12,540.91	36.37	36.72	-89.485	-415.87	-1,682.66	1,759.67	1,707.73	51.94	33.879		
12,528.24	12,519.04	12,654.29	12,549.98	36.37	36.76	-89.942	-429.92	-1,682.52	1,759.02	1,707.03	51.98	33.839		
12,550.00	12,540.79	12,666.56	12,556.36	36.40	36.78	90.301	-440.39	-1,682.41	1,758.73	1,706.70	52.03	33.803		
12,571.78	12,562.53	12,678.74	12,562.48	36.50	36.81	89.979	-450.93	-1,682.31	1,758.64	1,706.54	52.10	33.758		
12,600.00	12,590.61	12,694.42	12,570.03	36.63	36.85	89.543	-464.67	-1,682.17	1,758.79	1,706.60	52.19	33.701		
12,650.00	12,639.89	12,721.91	12,582.34	36.95	36.92	88.721	-489.25	-1,681.93	1,759.78	1,707.39	52.39	33.588		
12,700.00	12,688.24	12,750.00	12,593.68	37.29	36.99	87.822	-514.94	-1,681.67	1,761.63	1,708.99	52.64	33.464		
12,750.00	12,735.30	12,776.08	12,603.08	37.62	37.05	86.921	-539.26	-1,681.43	1,764.23	1,711.30	52.93	33.331		
12,800.00	12,780.72	12,800.00	12,610.72	37.96	37.11	86.026	-561.93	-1,681.20	1,767.51	1,714.26	53.25	33.194		
12,850.00	12,824.15	12,829.46	12,618.81	38.29	37.18	84.971	-590.25	-1,680.92	1,771.35	1,717.72	53.63	33.031		
12,900.00	12,865.26	12,850.00	12,623.59	38.60	37.23	84.090	-610.22	-1,680.72	1,775.68	1,721.68	54.00	32.883		
12,950.00	12,903.73	12,882.29	12,629.64	38.90	37.31	82.954	-641.94	-1,680.40	1,780.37	1,725.91	54.46	32.690		
13,000.00	12,939.27	12,900.00	12,632.20	39.18	37.36	82.106	-659.46	-1,680.23	1,785.38	1,730.50	54.88	32.534		
13,050.00	12,971.62	12,934.74	12,635.64	39.43	37.45	80.953	-694.02	-1,679.88	1,790.52	1,735.10	55.41	32.312		
13,100.00	13,000.52	12,960.85	12,636.84	39.65	37.51	79.985	-720.10	-1,679.62	1,795.78	1,739.85	55.92	32.112		
13,150.00	13,025.76	12,995.51	12,637.00	39.85	37.60	78.928	-754.75	-1,679.28	1,800.99	1,744.48	56.50	31.874		
13,200.00	13,047.14	13,040.69	12,637.00	40.02	37.74	77.860	-799.93	-1,678.83	1,805.71	1,748.53	57.18	31.580		
13,250.00	13,064.50	13,087.56	12,637.00	40.15	37.88	76.963	-846.80	-1,678.36	1,809.71	1,751.84	57.88	31.269		
13,300.00	13,077.71	13,135.77	12,637.00	40.26	38.05	76.264	-895.01	-1,677.88	1,812.86	1,754.26	58.60	30.934		
13,350.00	13,086.67	13,184.94	12,637.00	40.33	38.22	75.781	-944.18	-1,677.39	1,815.05	1,755.70	59.35	30.583		
13,400.00	13,091.30	13,234.71	12,637.00	40.38	38.42	75.530	-993.94	-1,676.89	1,816.18	1,756.07	60.11	30.214		
13,428.24	13,092.00	13,262.94	12,637.00	40.39	38.53	75.493	-1,022.17	-1,676.61	1,816.35	1,755.81	60.54	30.002		
13,500.00	13,092.00	13,334.70	12,637.00	40.40	38.85	75.493	-1,093.93	-1,675.89	1,816.32	1,754.66	61.66	29.457		
13,600.00	13,092.00	13,434.70	12,637.00	40.43	39.33	75.492	-1,193.92	-1,674.89	1,816.29	1,752.99	63.30	28.695		
13,700.00	13,092.00	13,534.70	12,637.00	40.46	39.86	75.492	-1,293.92	-1,673.89	1,816.25	1,751.24	65.02	27.935		
13,800.00	13,092.00	13,634.70	12,637.00	40.50	40.44	75.492	-1,393.91	-1,672.90	1,816.22	1,749.41	66.81	27.185		
13,900.00	13,092.00	13,734.70	12,637.00	40.53	41.06	75.491	-1,493.91	-1,671.90	1,816.19	1,747.51	68.67	26.447		
14,000.00	13,092.00	13,834.70	12,637.00	40.58	41.74	75.491	-1,593.90	-1,670.90	1,816.15	1,745.56	70.60	25.726		

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 412H - OH - Plan 1 08-31-22													Offset Site Error:	0.00 usft
Survey Program:		0-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	
14,100.00	13,092.00	13,934.70	12,637.00	40.63	42.45	75.491	-1,693.90	-1,669.90	1,816.12	1,743.54	72.57	25.024		
14,200.00	13,092.00	14,034.70	12,637.00	40.69	43.21	75.491	-1,793.89	-1,668.90	1,816.08	1,741.48	74.61	24.342		
14,300.00	13,092.00	14,134.70	12,637.00	40.76	44.01	75.490	-1,893.89	-1,667.90	1,816.05	1,739.36	76.69	23.682		
14,400.00	13,092.00	14,234.70	12,637.00	40.85	44.85	75.490	-1,993.88	-1,666.91	1,816.01	1,737.20	78.81	23.043		
14,500.00	13,092.00	14,334.70	12,637.00	40.95	45.72	75.490	-2,093.88	-1,665.91	1,815.98	1,735.01	80.97	22.427		
14,600.00	13,092.00	14,434.70	12,637.00	41.10	46.62	75.489	-2,193.87	-1,664.91	1,815.94	1,732.77	83.17	21.833		
14,700.00	13,092.00	14,534.70	12,637.00	41.29	47.56	75.489	-2,293.87	-1,663.91	1,815.91	1,730.50	85.41	21.262		
14,800.00	13,092.00	14,634.70	12,637.00	41.57	48.52	75.489	-2,393.86	-1,662.91	1,815.88	1,728.20	87.67	20.712		
14,900.00	13,092.00	14,734.70	12,637.00	41.99	49.51	75.489	-2,493.86	-1,661.92	1,815.84	1,725.87	89.97	20.183		
15,000.00	13,092.00	14,834.70	12,637.00	42.60	50.52	75.488	-2,593.85	-1,660.92	1,815.81	1,723.51	92.29	19.675		
15,100.00	13,092.00	14,934.70	12,637.00	43.42	51.56	75.488	-2,693.85	-1,659.92	1,815.77	1,721.13	94.64	19.186		
15,200.00	13,092.00	15,034.70	12,637.00	44.43	52.62	75.488	-2,793.84	-1,658.92	1,815.74	1,718.73	97.01	18.717		
15,300.00	13,092.00	15,134.70	12,637.00	45.56	53.69	75.487	-2,893.84	-1,657.92	1,815.70	1,716.30	99.40	18.266		
15,400.00	13,092.00	15,234.70	12,637.00	46.76	54.79	75.487	-2,993.83	-1,656.92	1,815.67	1,713.85	101.82	17.833		
15,500.00	13,092.00	15,334.70	12,637.00	48.01	55.90	75.487	-3,093.83	-1,655.93	1,815.63	1,711.39	104.25	17.416		
15,600.00	13,092.00	15,434.70	12,637.00	49.30	57.03	75.487	-3,193.82	-1,654.93	1,815.60	1,708.90	106.70	17.016		
15,700.00	13,092.00	15,534.70	12,637.00	50.61	58.18	75.486	-3,293.82	-1,653.93	1,815.57	1,706.40	109.17	16.631		
15,800.00	13,092.00	15,634.70	12,637.00	51.93	59.34	75.486	-3,393.81	-1,652.93	1,815.53	1,703.88	111.65	16.261		
15,900.00	13,092.00	15,734.70	12,637.00	53.27	60.51	75.486	-3,493.81	-1,651.93	1,815.50	1,701.35	114.14	15.905		
16,000.00	13,092.00	15,834.70	12,637.00	54.61	61.69	75.486	-3,593.80	-1,650.94	1,815.46	1,698.81	116.65	15.563		
16,100.00	13,092.00	15,934.70	12,637.00	55.97	62.89	75.485	-3,693.80	-1,649.94	1,815.43	1,696.25	119.18	15.233		
16,200.00	13,092.00	16,034.70	12,637.00	57.33	64.09	75.485	-3,793.79	-1,648.94	1,815.39	1,693.68	121.71	14.916		
16,300.00	13,092.00	16,134.70	12,637.00	58.69	65.31	75.485	-3,893.79	-1,647.94	1,815.36	1,691.10	124.26	14.610		
16,400.00	13,092.00	16,234.70	12,637.00	60.06	66.53	75.484	-3,993.78	-1,646.94	1,815.33	1,688.51	126.81	14.315		
16,500.00	13,092.00	16,334.70	12,637.00	61.44	67.77	75.484	-4,093.78	-1,645.94	1,815.29	1,685.91	129.38	14.031		
16,600.00	13,092.00	16,434.70	12,637.00	62.81	69.01	75.484	-4,193.77	-1,644.95	1,815.26	1,683.30	131.96	13.756		
16,700.00	13,092.00	16,534.70	12,637.00	64.20	70.26	75.484	-4,293.77	-1,643.95	1,815.22	1,680.68	134.54	13.492		
16,800.00	13,092.00	16,634.70	12,637.00	65.58	71.52	75.483	-4,393.76	-1,642.95	1,815.19	1,678.05	137.14	13.236		
16,900.00	13,092.00	16,734.70	12,637.00	66.97	72.78	75.483	-4,493.76	-1,641.95	1,815.15	1,675.42	139.74	12.990		
17,000.00	13,092.00	16,834.70	12,637.00	68.36	74.05	75.483	-4,593.75	-1,640.95	1,815.12	1,672.77	142.35	12.751		
17,100.00	13,092.00	16,934.70	12,637.00	69.75	75.33	75.482	-4,693.75	-1,639.95	1,815.08	1,670.12	144.96	12.521		
17,200.00	13,092.00	17,034.70	12,637.00	71.14	76.61	75.482	-4,793.74	-1,638.96	1,815.05	1,667.47	147.58	12.298		
17,300.00	13,092.00	17,134.70	12,637.00	72.54	77.90	75.482	-4,893.74	-1,637.96	1,815.02	1,664.80	150.21	12.083		
17,400.00	13,092.00	17,234.70	12,637.00	73.94	79.19	75.482	-4,993.73	-1,636.96	1,814.98	1,662.13	152.85	11.874		
17,500.00	13,092.00	17,334.70	12,637.00	75.34	80.49	75.481	-5,093.73	-1,635.96	1,814.95	1,659.46	155.49	11.672		
17,600.00	13,092.00	17,434.70	12,637.00	76.74	81.79	75.481	-5,193.72	-1,634.96	1,814.91	1,656.77	158.14	11.477		
17,700.00	13,092.00	17,534.70	12,637.00	78.14	83.10	75.481	-5,293.72	-1,633.97	1,814.88	1,654.09	160.79	11.287		
17,800.00	13,092.00	17,634.70	12,637.00	79.55	84.41	75.480	-5,393.71	-1,632.97	1,814.84	1,651.40	163.45	11.104		
17,900.00	13,092.00	17,734.70	12,637.00	80.95	85.73	75.480	-5,493.71	-1,631.97	1,814.81	1,648.70	166.11	10.925		
18,000.00	13,092.00	17,834.70	12,637.00	82.36	87.05	75.480	-5,593.70	-1,630.97	1,814.77	1,646.00	168.78	10.753		
18,100.00	13,092.00	17,934.70	12,637.00	83.76	88.37	75.480	-5,693.70	-1,629.97	1,814.74	1,643.29	171.45	10.585		
18,200.00	13,092.00	18,034.70	12,637.00	85.17	89.70	75.479	-5,793.69	-1,628.97	1,814.71	1,640.58	174.12	10.422		
18,300.00	13,092.00	18,134.70	12,637.00	86.58	91.03	75.479	-5,893.69	-1,627.98	1,814.67	1,637.87	176.80	10.264		
18,400.00	13,092.00	18,234.70	12,637.00	87.99	92.37	75.479	-5,993.68	-1,626.98	1,814.64	1,635.15	179.48	10.110		
18,500.00	13,092.00	18,334.70	12,637.00	89.40	93.70	75.478	-6,093.68	-1,625.98	1,814.60	1,632.43	182.17	9.961		
18,600.00	13,092.00	18,434.70	12,637.00	90.81	95.04	75.478	-6,193.67	-1,624.98	1,814.57	1,629.71	184.86	9.816		
18,700.00	13,092.00	18,534.70	12,637.00	92.23	96.39	75.478	-6,293.67	-1,623.98	1,814.53	1,626.98	187.56	9.675		
18,800.00	13,092.00	18,634.70	12,637.00	93.64	97.73	75.478	-6,393.66	-1,622.99	1,814.50	1,624.25	190.25	9.537		
18,900.00	13,092.00	18,734.70	12,637.00	95.06	99.08	75.477	-6,493.66	-1,621.99	1,814.47	1,621.51	192.95	9.404		
19,000.00	13,092.00	18,834.70	12,637.00	96.47	100.43	75.477	-6,593.65	-1,620.99	1,814.43	1,618.78	195.65	9.274		
19,100.00	13,092.00	18,934.70	12,637.00	97.89	101.78	75.477	-6,693.65	-1,619.99	1,814.40	1,616.04	198.36	9.147		
19,200.00	13,092.00	19,034.70	12,637.00	99.30	103.14	75.477	-6,793.64	-1,618.99	1,814.36	1,613.29	201.07	9.024		

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com (NAD83) - El Campeon Fed Com 412H - OH - Plan 1 08-31-22													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+HRGM													<b>Offset Well Error:</b> 1.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Rule Assigned:</b>		<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
19,300.00	13,092.00	19,134.70	12,637.00	100.72	104.49	75.476	-6,893.64	-1,617.99	1,814.33	1,610.55	203.78	8.903	
19,400.00	13,092.00	19,234.70	12,637.00	102.14	105.85	75.476	-6,993.63	-1,617.00	1,814.29	1,607.80	206.49	8.786	
19,500.00	13,092.00	19,334.70	12,637.00	103.55	107.22	75.476	-7,093.63	-1,616.00	1,814.26	1,605.05	209.21	8.672	
19,600.00	13,092.00	19,434.70	12,637.00	104.97	108.58	75.475	-7,193.62	-1,615.00	1,814.22	1,602.30	211.93	8.561	
19,700.00	13,092.00	19,534.70	12,637.00	106.39	109.94	75.475	-7,293.62	-1,614.00	1,814.19	1,599.54	214.65	8.452	
19,800.00	13,092.00	19,634.70	12,637.00	107.81	111.31	75.475	-7,393.61	-1,613.00	1,814.16	1,596.78	217.37	8.346	
19,900.00	13,092.00	19,734.70	12,637.00	109.23	112.68	75.475	-7,493.61	-1,612.00	1,814.12	1,594.03	220.10	8.242	
20,000.00	13,092.00	19,834.70	12,637.00	110.65	114.05	75.474	-7,593.60	-1,611.01	1,814.09	1,591.26	222.82	8.141	
20,100.00	13,092.00	19,934.70	12,637.00	112.07	115.42	75.474	-7,693.60	-1,610.01	1,814.05	1,588.50	225.55	8.043	
20,200.00	13,092.00	20,034.70	12,637.00	113.49	116.80	75.474	-7,793.59	-1,609.01	1,814.02	1,585.74	228.28	7.946	
20,300.00	13,092.00	20,134.70	12,637.00	114.91	118.17	75.473	-7,893.59	-1,608.01	1,813.98	1,582.97	231.01	7.852	
20,400.00	13,092.00	20,234.70	12,637.00	116.34	119.55	75.473	-7,993.58	-1,607.01	1,813.95	1,580.20	233.75	7.760	
20,500.00	13,092.00	20,334.70	12,637.00	117.76	120.92	75.473	-8,093.58	-1,606.02	1,813.91	1,577.43	236.48	7.670	
20,600.00	13,092.00	20,434.70	12,637.00	119.18	122.30	75.473	-8,193.57	-1,605.02	1,813.88	1,574.66	239.22	7.582	
20,700.00	13,092.00	20,534.70	12,637.00	120.60	123.68	75.472	-8,293.57	-1,604.02	1,813.85	1,571.89	241.96	7.496	
20,800.00	13,092.00	20,634.70	12,637.00	122.03	125.07	75.472	-8,393.56	-1,603.02	1,813.81	1,569.11	244.70	7.412	
20,900.00	13,092.00	20,734.70	12,637.00	123.45	126.45	75.472	-8,493.56	-1,602.02	1,813.78	1,566.33	247.44	7.330	
21,000.00	13,092.00	20,834.70	12,637.00	124.87	127.83	75.471	-8,593.55	-1,601.02	1,813.74	1,563.56	250.19	7.250	
21,100.00	13,092.00	20,934.70	12,637.00	126.30	129.22	75.471	-8,693.55	-1,600.03	1,813.71	1,560.78	252.93	7.171	
21,200.00	13,092.00	21,034.70	12,637.00	127.72	130.60	75.471	-8,793.54	-1,599.03	1,813.67	1,558.00	255.68	7.094	
21,300.00	13,092.00	21,134.70	12,637.00	129.15	131.99	75.471	-8,893.54	-1,598.03	1,813.64	1,555.21	258.43	7.018	
21,400.00	13,092.00	21,234.70	12,637.00	130.57	133.38	75.470	-8,993.53	-1,597.03	1,813.61	1,552.43	261.17	6.944	
21,500.00	13,092.00	21,334.70	12,637.00	132.00	134.77	75.470	-9,093.53	-1,596.03	1,813.57	1,549.65	263.92	6.872	
21,600.00	13,092.00	21,434.70	12,637.00	133.42	136.16	75.470	-9,193.52	-1,595.04	1,813.54	1,546.86	266.68	6.801	
21,700.00	13,092.00	21,534.70	12,637.00	134.85	137.55	75.469	-9,293.52	-1,594.04	1,813.50	1,544.07	269.43	6.731	
21,800.00	13,092.00	21,634.70	12,637.00	136.27	138.94	75.469	-9,393.51	-1,593.04	1,813.47	1,541.29	272.18	6.663	
21,900.00	13,092.00	21,734.70	12,637.00	137.70	140.34	75.469	-9,493.51	-1,592.04	1,813.43	1,538.50	274.94	6.596	
22,000.00	13,092.00	21,834.70	12,637.00	139.12	141.73	75.469	-9,593.50	-1,591.04	1,813.40	1,535.71	277.69	6.530	
22,100.00	13,092.00	21,934.70	12,637.00	140.55	143.13	75.468	-9,693.50	-1,590.04	1,813.36	1,532.92	280.45	6.466	
22,200.00	13,092.00	22,034.70	12,637.00	141.98	144.52	75.468	-9,793.49	-1,589.05	1,813.33	1,530.12	283.21	6.403	
22,300.00	13,092.00	22,134.70	12,637.00	143.40	145.92	75.468	-9,893.49	-1,588.05	1,813.30	1,527.33	285.96	6.341	
22,400.00	13,092.00	22,234.70	12,637.00	144.83	147.31	75.467	-9,993.48	-1,587.05	1,813.26	1,524.54	288.72	6.280	
22,500.00	13,092.00	22,334.70	12,637.00	146.26	148.71	75.467	-10,093.48	-1,586.05	1,813.23	1,521.74	291.48	6.221	
22,600.00	13,092.00	22,434.70	12,637.00	147.69	150.11	75.467	-10,193.47	-1,585.05	1,813.19	1,518.95	294.24	6.162	
22,700.00	13,092.00	22,534.70	12,637.00	149.11	151.51	75.467	-10,293.47	-1,584.05	1,813.16	1,516.15	297.01	6.105	
22,728.24	13,092.00	22,562.94	12,637.00	149.52	151.91	75.467	-10,321.71	-1,583.77	1,813.15	1,515.36	297.79	6.089 SF	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com (NAD83) - El Campeon Fed Com 413H - OH - Plan 1 08-31-22												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 0-MWD+HRGM												<b>Offset Well Error:</b>	1.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
0.00	0.00	1.00	0.00	1.00	1.00	-90.362	-0.19	-30.09	30.09				
100.00	100.00	101.00	100.00	1.08	1.09	-90.362	-0.19	-30.09	30.09	27.92	2.17	13.857	
200.00	200.00	201.00	200.00	1.60	1.60	-90.362	-0.19	-30.09	30.09	26.89	3.20	9.400	
300.00	300.00	301.00	300.00	2.01	2.01	-90.362	-0.19	-30.09	30.09	26.07	4.02	7.480	
400.00	400.00	401.00	400.00	2.35	2.36	-90.362	-0.19	-30.09	30.09	25.38	4.71	6.391	
500.00	500.00	501.00	500.00	2.65	2.66	-90.362	-0.19	-30.09	30.09	24.78	5.31	5.666	
600.00	600.00	601.00	600.00	2.93	2.93	-90.362	-0.19	-30.09	30.09	24.23	5.86	5.138	
700.00	700.00	701.00	700.00	3.18	3.18	-90.362	-0.19	-30.09	30.09	23.73	6.36	4.732	
800.00	800.00	801.00	800.00	3.41	3.42	-90.362	-0.19	-30.09	30.09	23.26	6.83	4.406	
900.00	900.00	901.00	900.00	3.64	3.64	-90.362	-0.19	-30.09	30.09	22.82	7.27	4.137	
1,000.00	1,000.00	1,001.00	1,000.00	3.85	3.85	-90.362	-0.19	-30.09	30.09	22.40	7.69	3.911	
1,100.00	1,100.00	1,101.00	1,100.00	4.05	4.05	-90.362	-0.19	-30.09	30.09	21.99	8.10	3.716	
1,200.00	1,200.00	1,201.00	1,200.00	4.24	4.24	-90.362	-0.19	-30.09	30.09	21.61	8.48	3.547	
1,300.00	1,300.00	1,301.00	1,300.00	4.43	4.43	-90.362	-0.19	-30.09	30.09	21.23	8.86	3.398	
1,400.00	1,400.00	1,401.00	1,400.00	4.61	4.61	-90.362	-0.19	-30.09	30.09	20.87	9.22	3.265	
1,416.33	1,416.33	1,417.33	1,416.33	4.64	4.64	-90.362	-0.19	-30.09	30.09	20.82	9.27	3.245 CC	
1,500.00	1,500.00	1,501.00	1,500.00	4.78	4.78	-90.362	-0.19	-30.09	30.09	20.52	9.57	3.145 ES	
1,600.00	1,599.98	1,600.52	1,599.50	4.98	4.99	99.873	-1.78	-30.86	31.17	21.35	9.82	3.173	
1,620.70	1,620.67	1,621.12	1,620.08	4.99	5.10	99.984	-2.49	-31.21	31.66	21.79	9.87	3.207	
1,700.00	1,699.89	1,700.00	1,698.84	5.07	5.60	98.808	-6.46	-33.15	34.19	24.07	10.12	3.379	
1,800.00	1,799.81	1,799.75	1,798.30	5.23	5.72	94.988	-13.23	-36.45	38.37	28.02	10.35	3.706	
1,900.00	1,899.72	1,899.63	1,897.89	5.41	5.89	91.860	-20.07	-39.78	42.72	32.07	10.65	4.011	
2,000.00	1,999.63	1,999.51	1,997.49	5.60	6.09	89.315	-26.90	-43.10	47.18	36.21	10.96	4.304	
2,100.00	2,099.54	2,099.39	2,097.08	5.80	6.30	87.213	-33.73	-46.43	51.71	40.43	11.28	4.584	
2,200.00	2,199.45	2,199.27	2,196.67	6.02	6.52	85.452	-40.56	-49.76	56.29	44.69	11.61	4.851	
2,300.00	2,299.36	2,299.15	2,296.26	6.24	6.76	83.957	-47.39	-53.09	60.93	48.99	11.94	5.102	
2,400.00	2,399.27	2,399.04	2,395.85	6.47	7.02	82.674	-54.22	-56.42	65.60	53.31	12.29	5.340	
2,500.00	2,499.18	2,498.92	2,495.44	6.72	7.28	81.562	-61.05	-59.75	70.29	57.66	12.64	5.562	
2,600.00	2,599.10	2,598.80	2,595.03	6.96	7.55	80.589	-67.88	-63.08	75.01	62.02	13.00	5.771	
2,700.00	2,699.01	2,698.68	2,694.63	7.22	7.83	79.732	-74.72	-66.41	79.75	66.39	13.37	5.966	
2,800.00	2,798.92	2,798.56	2,794.22	7.48	8.12	78.971	-81.55	-69.74	84.51	70.76	13.74	6.149	
2,900.00	2,898.83	2,898.44	2,893.81	7.74	8.41	78.292	-88.38	-73.07	89.28	75.15	14.13	6.319	
3,000.00	2,998.74	2,998.32	2,993.40	8.01	8.71	77.681	-95.21	-76.40	94.06	79.54	14.52	6.479	
3,100.00	3,098.65	3,098.20	3,092.99	8.28	9.02	77.129	-102.04	-79.72	98.85	83.93	14.91	6.628	
3,200.00	3,198.56	3,198.08	3,192.58	8.56	9.33	76.629	-108.87	-83.05	103.65	88.33	15.32	6.767	
3,300.00	3,298.47	3,297.96	3,292.17	8.84	9.65	76.173	-115.70	-86.38	108.45	92.73	15.72	6.898	
3,400.00	3,398.39	3,397.84	3,391.77	9.13	9.97	75.755	-122.54	-89.71	113.26	97.13	16.13	7.020	
3,500.00	3,498.30	3,497.73	3,491.36	9.41	10.29	75.372	-129.37	-93.04	118.08	101.53	16.55	7.134	
3,600.00	3,598.21	3,597.61	3,590.95	9.70	10.62	75.018	-136.20	-96.37	122.90	105.93	16.97	7.242	
3,700.00	3,698.12	3,697.49	3,690.54	9.99	10.95	74.692	-143.03	-99.70	127.73	110.33	17.40	7.342	
3,800.00	3,798.03	3,797.37	3,790.13	10.29	11.29	74.389	-149.86	-103.03	132.56	114.73	17.82	7.437	
3,900.00	3,897.94	3,897.25	3,889.72	10.58	11.62	74.107	-156.69	-106.36	137.39	119.13	18.25	7.526	
4,000.00	3,997.85	3,997.13	3,989.31	10.88	11.96	73.845	-163.52	-109.69	142.22	123.54	18.69	7.610	
4,100.00	4,097.76	4,097.01	4,088.91	11.18	12.30	73.600	-170.36	-113.01	147.06	127.94	19.13	7.689	
4,200.00	4,197.68	4,196.89	4,188.50	11.48	12.64	73.370	-177.19	-116.34	151.91	132.34	19.57	7.764	
4,300.00	4,297.59	4,296.77	4,288.09	11.78	12.99	73.155	-184.02	-119.67	156.75	136.74	20.01	7.834	
4,400.00	4,397.50	4,396.65	4,387.68	12.08	13.33	72.952	-190.85	-123.00	161.60	141.14	20.45	7.901	
4,500.00	4,497.41	4,496.53	4,487.27	12.39	13.68	72.762	-197.68	-126.33	166.44	145.54	20.90	7.964	
4,600.00	4,597.32	4,596.42	4,586.86	12.69	14.03	72.582	-204.51	-129.66	171.29	149.94	21.35	8.023	
4,700.00	4,697.23	4,696.30	4,686.45	13.00	14.38	72.412	-211.34	-132.99	176.14	154.34	21.80	8.080	
4,800.00	4,797.14	4,796.18	4,786.05	13.31	14.73	72.251	-218.17	-136.32	181.00	158.74	22.25	8.134	
4,900.00	4,897.05	4,896.06	4,885.64	13.62	15.08	72.099	-225.01	-139.65	185.85	163.14	22.71	8.185	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com (NAD83) - El Campeon Fed Com 413H - OH - Plan 1 08-31-22													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+HRGM													<b>Offset Well Error:</b> 1.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
5,000.00	4,996.97	4,995.94	4,985.23	13.92	15.44	71.954	-231.84	-142.98	190.71	167.54	23.16	8.233	
5,100.00	5,096.88	5,095.82	5,084.82	14.23	15.79	71.816	-238.67	-146.31	195.56	171.94	23.62	8.279	
5,200.00	5,196.79	5,195.70	5,184.41	14.55	16.15	71.685	-245.50	-149.63	200.42	176.34	24.08	8.323	
5,300.00	5,296.70	5,295.58	5,284.00	14.86	16.50	71.561	-252.33	-152.96	205.28	180.74	24.54	8.365	
5,400.00	5,396.61	5,395.46	5,383.59	15.17	16.86	71.442	-259.16	-156.29	210.14	185.14	25.00	8.405	
5,500.00	5,496.52	5,495.34	5,483.19	15.48	17.22	71.328	-265.99	-159.62	215.00	189.53	25.47	8.443	
5,600.00	5,596.43	5,595.23	5,582.78	15.79	17.58	71.220	-272.83	-162.95	219.86	193.93	25.93	8.479	
5,700.00	5,696.34	5,695.11	5,682.37	16.11	17.94	71.116	-279.66	-166.28	224.72	198.33	26.39	8.514	
5,800.00	5,796.26	5,794.99	5,781.96	16.42	18.30	71.017	-286.49	-169.61	229.58	202.72	26.86	8.547	
5,900.00	5,896.17	5,894.87	5,881.55	16.74	18.66	70.921	-293.32	-172.94	234.45	207.12	27.33	8.579	
6,000.00	5,996.08	5,994.75	5,981.14	17.05	19.02	70.830	-300.15	-176.27	239.31	211.51	27.80	8.609	
6,100.00	6,095.99	6,094.63	6,080.73	17.37	19.38	70.742	-306.98	-179.60	244.17	215.91	28.27	8.639	
6,200.00	6,195.90	6,194.51	6,180.32	17.68	19.74	70.658	-313.81	-182.92	249.04	220.30	28.74	8.667	
6,300.00	6,295.81	6,294.39	6,279.92	18.00	20.11	70.577	-320.64	-186.25	253.91	224.70	29.21	8.694	
6,400.00	6,395.72	6,394.27	6,379.51	18.32	20.47	70.499	-327.48	-189.58	258.77	229.09	29.68	8.719	
6,500.00	6,495.63	6,494.15	6,479.10	18.63	20.83	70.424	-334.31	-192.91	263.64	233.49	30.15	8.744	
6,600.00	6,595.55	6,594.03	6,578.69	18.95	21.20	70.351	-341.14	-196.24	268.50	237.88	30.62	8.768	
6,700.00	6,695.46	6,693.92	6,678.28	19.27	21.56	70.281	-347.97	-199.57	273.37	242.28	31.10	8.791	
6,800.00	6,795.37	6,793.80	6,777.87	19.59	21.93	70.214	-354.80	-202.90	278.24	246.67	31.57	8.813	
6,900.00	6,895.28	6,893.68	6,877.46	19.91	22.29	70.149	-361.63	-206.23	283.11	251.06	32.04	8.835	
7,000.00	6,995.19	6,993.56	6,977.06	20.23	22.66	70.086	-368.46	-209.56	287.98	255.46	32.52	8.855	
7,100.00	7,095.10	7,093.44	7,076.65	20.54	23.03	70.025	-375.30	-212.89	292.84	259.85	33.00	8.875	
7,200.00	7,195.01	7,193.32	7,176.24	20.86	23.39	69.966	-382.13	-216.22	297.71	264.24	33.47	8.894	
7,300.00	7,294.92	7,293.20	7,275.83	21.18	23.76	69.909	-388.96	-219.54	302.58	268.63	33.95	8.913	
7,400.00	7,394.84	7,393.08	7,375.42	21.50	24.12	69.854	-395.79	-222.87	307.45	273.03	34.43	8.931	
7,500.00	7,494.75	7,492.96	7,475.01	21.82	24.49	69.801	-402.62	-226.20	312.32	277.42	34.90	8.948	
7,600.00	7,594.66	7,592.84	7,574.60	22.14	24.86	69.749	-409.45	-229.53	317.19	281.81	35.38	8.964	
7,700.00	7,694.57	7,692.72	7,674.20	22.46	25.23	69.699	-416.28	-232.86	322.06	286.20	35.86	8.981	
7,800.00	7,794.48	7,792.61	7,773.79	22.78	25.60	69.650	-423.12	-236.19	326.93	290.59	36.34	8.996	
7,900.00	7,894.39	7,892.49	7,873.38	23.10	25.96	69.603	-429.95	-239.52	331.80	294.98	36.82	9.011	
8,000.00	7,994.30	7,992.37	7,972.97	23.42	26.33	69.557	-436.78	-242.85	336.67	299.37	37.30	9.026	
8,100.00	8,094.21	8,092.25	8,072.56	23.75	26.70	69.512	-443.61	-246.18	341.55	303.76	37.78	9.040	
8,200.00	8,194.13	8,192.13	8,172.15	24.07	27.07	69.469	-450.44	-249.51	346.42	308.16	38.26	9.054	
8,300.00	8,294.04	8,292.01	8,271.74	24.39	27.44	69.427	-457.27	-252.83	351.29	312.55	38.74	9.067	
8,400.00	8,393.95	8,391.89	8,371.34	24.71	27.81	69.386	-464.10	-256.16	356.16	316.94	39.22	9.080	
8,500.00	8,493.86	8,491.77	8,470.93	25.03	28.18	69.346	-470.93	-259.49	361.03	321.33	39.71	9.093	
8,600.00	8,593.77	8,591.65	8,570.52	25.35	28.55	69.307	-477.77	-262.82	365.91	325.72	40.19	9.105	
8,700.00	8,693.68	8,691.53	8,670.11	25.67	28.92	69.269	-484.60	-266.15	370.78	330.11	40.67	9.117	
8,800.00	8,793.59	8,791.42	8,769.70	26.00	29.29	69.233	-491.43	-269.48	375.65	334.50	41.15	9.128	
8,900.00	8,893.50	8,891.30	8,869.29	26.32	29.66	69.197	-498.26	-272.81	380.52	338.89	41.64	9.139	
9,000.00	8,993.42	8,991.18	8,968.88	26.64	30.03	69.162	-505.09	-276.14	385.40	343.28	42.12	9.150	
9,100.00	9,093.33	9,091.06	9,068.48	26.96	30.40	69.128	-511.92	-279.47	390.27	347.67	42.60	9.161	
9,200.00	9,193.24	9,190.94	9,168.07	27.29	30.77	69.094	-518.75	-282.80	395.14	352.05	43.09	9.171	
9,300.00	9,293.15	9,290.82	9,267.66	27.61	31.14	69.062	-525.59	-286.13	400.02	356.44	43.57	9.181	
9,400.00	9,393.06	9,390.70	9,367.25	27.93	31.51	69.030	-532.42	-289.45	404.89	360.83	44.06	9.190	
9,500.00	9,492.97	9,490.58	9,466.84	28.25	31.88	68.999	-539.25	-292.78	409.76	365.22	44.54	9.200	
9,600.00	9,592.88	9,590.46	9,566.43	28.58	32.25	68.969	-546.08	-296.11	414.64	369.61	45.02	9.209	
9,700.00	9,692.79	9,690.34	9,666.02	28.90	32.62	68.940	-552.91	-299.44	419.51	374.00	45.51	9.218	
9,800.00	9,792.71	9,790.22	9,765.62	29.22	32.99	68.911	-559.74	-302.77	424.38	378.39	45.99	9.227	
9,900.00	9,892.62	9,890.11	9,865.21	29.55	33.36	68.883	-566.57	-306.10	429.26	382.78	46.48	9.235	
10,000.00	9,992.53	9,989.99	9,964.80	29.87	33.73	68.855	-573.40	-309.43	434.13	387.17	46.97	9.244	
10,100.00	10,092.44	10,089.87	10,064.39	30.19	34.11	68.828	-580.24	-312.76	439.01	391.55	47.45	9.252	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com (NAD83) - El Campeon Fed Com 413H - OH - Plan 1 08-31-22												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 0-MWD+HRGM												<b>Offset Well Error:</b>	1.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
10,200.00	10,192.35	10,189.75	10,163.98	30.52	34.48	68.802	-587.07	-316.09	443.88	395.94	47.94	9.260	
10,300.00	10,292.26	10,289.63	10,263.57	30.84	34.85	68.776	-593.90	-319.42	448.75	400.33	48.42	9.267	
10,400.00	10,392.17	10,389.51	10,363.16	31.16	35.22	68.751	-600.73	-322.74	453.63	404.72	48.91	9.275	
10,500.00	10,492.08	10,489.39	10,462.76	31.49	35.59	68.726	-607.56	-326.07	458.50	409.11	49.40	9.282	
10,600.00	10,592.00	10,589.27	10,562.35	31.81	35.97	68.702	-614.39	-329.40	463.38	413.49	49.88	9.289	
10,700.00	10,691.91	10,689.15	10,661.94	32.13	36.34	68.679	-621.22	-332.73	468.25	417.88	50.37	9.296	
10,800.00	10,791.82	10,789.03	10,761.53	32.46	36.71	68.656	-628.06	-336.06	473.13	422.27	50.86	9.303	
10,900.00	10,891.73	10,888.91	10,861.12	32.78	37.08	68.633	-634.89	-339.39	478.00	426.66	51.34	9.310	
11,000.00	10,991.64	10,988.80	10,960.71	33.11	37.45	68.611	-641.72	-342.72	482.88	431.04	51.83	9.316	
11,100.00	11,091.55	11,088.68	11,060.30	33.43	37.83	68.589	-648.55	-346.05	487.75	435.43	52.32	9.323	
11,200.00	11,191.46	11,188.56	11,159.90	33.75	38.20	68.568	-655.38	-349.38	492.63	439.82	52.81	9.329	
11,300.00	11,291.37	11,288.44	11,259.49	34.08	38.57	68.547	-662.21	-352.71	497.50	444.21	53.29	9.335	
11,400.00	11,391.29	11,389.54	11,360.29	34.40	38.94	68.527	-669.12	-356.07	502.37	448.59	53.78	9.341	
11,500.00	11,491.20	11,506.87	11,477.46	34.73	39.35	68.670	-674.68	-358.78	505.28	451.10	54.18	9.327	
11,600.00	11,591.11	11,620.54	11,591.11	35.05	39.50	69.085	-676.03	-359.44	504.83	450.64	54.19	9.315	
11,700.00	11,691.02	11,720.45	11,691.02	35.38	39.52	69.532	-676.03	-359.44	503.34	449.24	54.10	9.304	
11,800.00	11,790.93	11,820.36	11,790.93	35.70	39.53	69.982	-676.03	-359.44	501.88	447.89	54.00	9.295	
11,900.00	11,890.84	11,920.27	11,890.84	36.03	39.53	70.435	-676.03	-359.44	500.46	446.56	53.89	9.286	
11,907.54	11,898.38	11,927.81	11,898.38	36.05	39.53	70.469	-676.03	-359.44	500.35	446.46	53.88	9.286	
12,000.00	11,990.80	12,020.23	11,990.80	36.33	39.54	70.714	-676.03	-359.44	499.55	445.69	53.86	9.275	
12,028.24	12,019.04	12,048.47	12,019.04	36.36	39.54	-119.286	-676.03	-359.44	499.50	445.64	53.86	9.274	
12,030.47	12,021.27	12,050.70	12,021.27	36.36	39.54	-119.286	-676.03	-359.44	499.50	445.64	53.86	9.274	
12,100.00	12,090.80	12,114.10	12,084.66	36.36	39.57	-119.304	-676.21	-359.44	499.63	445.72	53.91	9.267	
12,200.00	12,190.80	12,183.95	12,154.21	36.36	39.83	-119.907	-682.24	-359.38	503.85	449.31	54.54	9.238	
12,300.00	12,290.80	12,250.00	12,218.84	36.36	40.20	-121.225	-695.69	-359.25	514.31	458.60	55.70	9.233	
12,400.00	12,390.80	12,314.77	12,280.30	36.37	40.58	-123.151	-716.00	-359.05	531.52	474.26	57.25	9.284	
12,500.00	12,490.80	12,373.08	12,333.37	36.37	40.93	-125.335	-740.12	-358.82	556.04	497.12	58.92	9.437	
12,528.24	12,519.04	12,388.56	12,347.02	36.37	41.02	-125.974	-747.42	-358.75	564.34	504.96	59.38	9.503	
12,550.00	12,540.79	12,400.00	12,356.98	36.40	41.09	53.551	-753.05	-358.69	570.92	511.20	59.73	9.559	
12,600.00	12,590.61	12,427.21	12,380.20	36.63	41.25	51.326	-767.23	-358.56	585.61	525.11	60.50	9.679	
12,650.00	12,639.89	12,450.00	12,399.11	36.95	41.38	49.468	-779.94	-358.44	599.57	538.54	61.03	9.824	
12,700.00	12,688.24	12,480.79	12,423.83	37.29	41.55	47.602	-798.29	-358.26	612.55	550.88	61.67	9.932	
12,750.00	12,735.30	12,500.00	12,438.74	37.62	41.66	46.235	-810.41	-358.14	624.58	562.77	61.82	10.104	
12,800.00	12,780.72	12,534.12	12,464.18	37.96	41.84	44.759	-833.13	-357.92	635.28	572.93	62.35	10.189	
12,850.00	12,824.15	12,550.00	12,475.56	38.29	41.92	43.798	-844.21	-357.81	644.95	582.80	62.15	10.377	
12,900.00	12,865.26	12,587.28	12,501.01	38.60	42.10	42.717	-871.43	-357.55	652.95	590.32	62.63	10.426	
12,950.00	12,903.73	12,613.81	12,518.03	38.90	42.22	41.974	-891.78	-357.35	659.69	597.05	62.64	10.531	
13,000.00	12,939.27	12,650.00	12,539.68	39.18	42.39	41.334	-920.77	-357.07	665.09	602.14	62.95	10.565	
13,050.00	12,971.62	12,666.80	12,549.11	39.43	42.45	41.006	-934.68	-356.94	668.72	606.27	62.46	10.707	
13,100.00	13,000.52	12,700.00	12,566.50	39.65	42.58	40.756	-962.95	-356.67	671.02	608.47	62.54	10.729	
13,150.00	13,025.76	12,719.76	12,576.07	39.85	42.65	40.702	-980.24	-356.50	671.63	609.58	62.05	10.824	
13,200.00	13,047.14	12,750.00	12,589.54	40.02	42.76	40.801	-1,007.31	-356.24	670.78	608.84	61.94	10.830	
13,250.00	13,064.50	12,772.71	12,598.71	40.15	42.82	41.047	-1,028.08	-356.04	668.33	606.85	61.49	10.870	
13,300.00	13,077.71	12,800.00	12,608.63	40.26	42.91	41.473	-1,053.50	-355.79	664.38	603.18	61.19	10.857	
13,350.00	13,086.67	12,825.72	12,616.85	40.33	42.97	42.057	-1,077.86	-355.56	658.91	598.09	60.82	10.834	
13,400.00	13,091.30	12,850.00	12,623.61	40.38	43.03	42.795	-1,101.18	-355.33	652.00	591.62	60.38	10.798	
13,428.24	13,092.00	12,867.25	12,627.81	40.39	43.06	43.336	-1,117.91	-355.17	647.45	587.22	60.24	10.748	
13,500.00	13,092.00	12,900.00	12,634.39	40.40	43.12	43.744	-1,149.99	-354.86	637.22	577.76	59.47	10.716	
13,600.00	13,092.00	12,961.20	12,641.72	40.43	43.20	44.207	-1,210.72	-354.27	628.87	569.72	59.15	10.631	
13,700.00	13,092.00	13,031.11	12,643.00	40.46	43.26	44.288	-1,280.60	-353.60	627.23	567.89	59.34	10.570	
13,800.00	13,092.00	13,131.11	12,643.00	40.50	43.33	44.288	-1,380.59	-352.63	627.23	566.60	60.63	10.345	
13,900.00	13,092.00	13,231.11	12,643.00	40.53	43.43	44.287	-1,480.59	-351.67	627.23	565.30	61.93	10.127	

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





## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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			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	13,092.00	13,331.11	12,643.00	40.58	43.54	44.287	-1,580.58	-350.70	627.23	563.94	63.29	9.910			
14,100.00	13,092.00	13,431.11	12,643.00	40.63	43.67	44.287	-1,680.58	-349.73	627.22	562.52	64.70	9.694			
14,200.00	13,092.00	13,531.11	12,643.00	40.69	43.83	44.287	-1,780.57	-348.77	627.22	561.06	66.16	9.480			
14,300.00	13,092.00	13,631.11	12,643.00	40.76	44.02	44.287	-1,880.57	-347.80	627.22	559.55	67.67	9.269			
14,400.00	13,092.00	13,731.11	12,643.00	40.85	44.25	44.286	-1,980.56	-346.83	627.22	558.00	69.22	9.061			
14,500.00	13,092.00	13,831.11	12,643.00	40.95	44.53	44.286	-2,080.56	-345.87	627.22	556.40	70.81	8.857			
14,600.00	13,092.00	13,931.11	12,643.00	41.10	44.85	44.286	-2,180.56	-344.90	627.21	554.77	72.44	8.658			
14,700.00	13,092.00	14,031.11	12,643.00	41.29	45.24	44.286	-2,280.55	-343.94	627.21	553.10	74.11	8.463			
14,800.00	13,092.00	14,131.11	12,643.00	41.57	45.69	44.285	-2,380.55	-342.97	627.21	551.40	75.81	8.274			
14,900.00	13,092.00	14,231.11	12,643.00	41.99	46.23	44.285	-2,480.54	-342.00	627.21	549.67	77.54	8.089			
15,000.00	13,092.00	14,331.11	12,643.00	42.60	46.85	44.285	-2,580.54	-341.04	627.20	547.91	79.30	7.910			
15,100.00	13,092.00	14,431.11	12,643.00	43.42	47.55	44.285	-2,680.53	-340.07	627.20	546.12	81.08	7.735			
15,200.00	13,092.00	14,531.11	12,643.00	44.43	48.35	44.284	-2,780.53	-339.11	627.20	544.30	82.89	7.566			
15,300.00	13,092.00	14,631.11	12,643.00	45.56	49.22	44.284	-2,880.52	-338.14	627.20	542.47	84.73	7.402			
15,400.00	13,092.00	14,731.11	12,643.00	46.76	50.16	44.284	-2,980.52	-337.17	627.19	540.61	86.59	7.243			
15,500.00	13,092.00	14,831.11	12,643.00	48.01	51.17	44.284	-3,080.51	-336.21	627.19	538.73	88.47	7.090			
15,600.00	13,092.00	14,931.11	12,643.00	49.30	52.23	44.284	-3,180.51	-335.24	627.19	536.83	90.36	6.941			
15,700.00	13,092.00	15,031.11	12,643.00	50.61	53.34	44.283	-3,280.50	-334.28	627.19	534.91	92.28	6.797			
15,800.00	13,092.00	15,131.11	12,643.00	51.93	54.48	44.283	-3,380.50	-333.31	627.18	532.97	94.21	6.657			
15,900.00	13,092.00	15,231.11	12,643.00	53.27	55.66	44.283	-3,480.49	-332.34	627.18	531.02	96.16	6.522			
16,000.00	13,092.00	15,331.11	12,643.00	54.61	56.87	44.283	-3,580.49	-331.38	627.18	529.05	98.13	6.391			
16,100.00	13,092.00	15,431.11	12,643.00	55.97	58.10	44.282	-3,680.49	-330.41	627.18	527.07	100.11	6.265			
16,200.00	13,092.00	15,531.11	12,643.00	57.33	59.35	44.282	-3,780.48	-329.44	627.17	525.07	102.10	6.143			
16,300.00	13,092.00	15,631.11	12,643.00	58.69	60.62	44.282	-3,880.48	-328.48	627.17	523.07	104.10	6.024			
16,400.00	13,092.00	15,731.11	12,643.00	60.06	61.90	44.282	-3,980.47	-327.51	627.17	521.05	106.12	5.910			
16,500.00	13,092.00	15,831.11	12,643.00	61.44	63.19	44.282	-4,080.47	-326.55	627.17	519.02	108.15	5.799			
16,600.00	13,092.00	15,931.11	12,643.00	62.81	64.49	44.281	-4,180.46	-325.58	627.16	516.98	110.19	5.692			
16,700.00	13,092.00	16,031.11	12,643.00	64.20	65.81	44.281	-4,280.46	-324.61	627.16	514.92	112.24	5.588			
16,800.00	13,092.00	16,131.11	12,643.00	65.58	67.13	44.281	-4,380.45	-323.65	627.16	512.86	114.30	5.487			
16,900.00	13,092.00	16,231.11	12,643.00	66.97	68.46	44.281	-4,480.45	-322.68	627.16	510.79	116.36	5.390			
17,000.00	13,092.00	16,331.11	12,643.00	68.36	69.80	44.280	-4,580.44	-321.72	627.16	508.71	118.44	5.295			
17,100.00	13,092.00	16,431.11	12,643.00	69.75	71.14	44.280	-4,680.44	-320.75	627.15	506.63	120.52	5.204			
17,200.00	13,092.00	16,531.11	12,643.00	71.14	72.49	44.280	-4,780.43	-319.78	627.15	504.53	122.62	5.115			
17,300.00	13,092.00	16,631.11	12,643.00	72.54	73.84	44.280	-4,880.43	-318.82	627.15	502.43	124.72	5.029			
17,400.00	13,092.00	16,731.11	12,643.00	73.94	75.19	44.280	-4,980.42	-317.85	627.15	500.32	126.82	4.945			
17,500.00	13,092.00	16,831.11	12,643.00	75.34	76.56	44.279	-5,080.42	-316.89	627.14	498.21	128.93	4.864			
17,600.00	13,092.00	16,931.11	12,643.00	76.74	77.92	44.279	-5,180.42	-315.92	627.14	496.09	131.05	4.785			
17,700.00	13,092.00	17,031.11	12,643.00	78.14	79.29	44.279	-5,280.41	-314.95	627.14	493.96	133.18	4.709			
17,800.00	13,092.00	17,131.11	12,643.00	79.55	80.66	44.279	-5,380.41	-313.99	627.14	491.83	135.31	4.635			
17,900.00	13,092.00	17,231.11	12,643.00	80.95	82.03	44.278	-5,480.40	-313.02	627.13	489.69	137.44	4.563			
18,000.00	13,092.00	17,331.11	12,643.00	82.36	83.41	44.278	-5,580.40	-312.05	627.13	487.55	139.59	4.493			
18,100.00	13,092.00	17,431.11	12,643.00	83.76	84.79	44.278	-5,680.39	-311.09	627.13	485.40	141.73	4.425			
18,200.00	13,092.00	17,531.11	12,643.00	85.17	86.17	44.278	-5,780.39	-310.12	627.13	483.24	143.88	4.359			
18,300.00	13,092.00	17,631.11	12,643.00	86.58	87.55	44.277	-5,880.38	-309.16	627.12	481.09	146.04	4.294			
18,400.00	13,092.00	17,731.11	12,643.00	87.99	88.94	44.277	-5,980.38	-308.19	627.12	478.93	148.20	4.232			
18,500.00	13,092.00	17,831.11	12,643.00	89.40	90.33	44.277	-6,080.37	-307.22	627.12	476.76	150.36	4.171			
18,600.00	13,092.00	17,931.11	12,643.00	90.81	91.72	44.277	-6,180.37	-306.26	627.12	474.59	152.53	4.112			
18,700.00	13,092.00	18,031.11	12,643.00	92.23	93.11	44.277	-6,280.36	-305.29	627.11	472.42	154.70	4.054			
18,800.00	13,092.00	18,131.11	12,643.00	93.64	94.50	44.276	-6,380.36	-304.33	627.11	470.24	156.87	3.998			
18,900.00	13,092.00	18,231.11	12,643.00	95.06	95.89	44.276	-6,480.35	-303.36	627.11	468.06	159.05	3.943			
19,000.00	13,092.00	18,331.11	12,643.00	96.47	97.29	44.276	-6,580.35	-302.39	627.11	465.88	161.23	3.889			
19,100.00	13,092.00	18,431.11	12,643.00	97.89	98.69	44.276	-6,680.35	-301.43	627.10	463.69	163.42	3.837			

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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					Rule Assigned:			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)				
19,200.00	13,092.00	18,531.11	12,643.00	99.30	100.08	44.275	-6,780.34	-300.46	627.10	461.50	165.60	3.787		
19,300.00	13,092.00	18,631.11	12,643.00	100.72	101.48	44.275	-6,880.34	-299.49	627.10	459.31	167.79	3.737		
19,400.00	13,092.00	18,731.11	12,643.00	102.14	102.88	44.275	-6,980.33	-298.53	627.10	457.11	169.99	3.689		
19,500.00	13,092.00	18,831.11	12,643.00	103.55	104.29	44.275	-7,080.33	-297.56	627.10	454.91	172.18	3.642		
19,600.00	13,092.00	18,931.11	12,643.00	104.97	105.69	44.275	-7,180.32	-296.60	627.09	452.71	174.38	3.596		
19,700.00	13,092.00	19,031.11	12,643.00	106.39	107.09	44.274	-7,280.32	-295.63	627.09	450.51	176.58	3.551		
19,800.00	13,092.00	19,131.11	12,643.00	107.81	108.50	44.274	-7,380.31	-294.66	627.09	448.30	178.79	3.507		
19,900.00	13,092.00	19,231.11	12,643.00	109.23	109.90	44.274	-7,480.31	-293.70	627.09	446.09	180.99	3.465		
20,000.00	13,092.00	19,331.11	12,643.00	110.65	111.31	44.274	-7,580.30	-292.73	627.08	443.88	183.20	3.423		
20,100.00	13,092.00	19,431.11	12,643.00	112.07	112.71	44.273	-7,680.30	-291.77	627.08	441.67	185.41	3.382		
20,200.00	13,092.00	19,531.11	12,643.00	113.49	114.12	44.273	-7,780.29	-290.80	627.08	439.45	187.63	3.342		
20,300.00	13,092.00	19,631.11	12,643.00	114.91	115.53	44.273	-7,880.29	-289.83	627.08	437.24	189.84	3.303		
20,400.00	13,092.00	19,731.11	12,643.00	116.34	116.94	44.273	-7,980.28	-288.87	627.07	435.02	192.06	3.265		
20,500.00	13,092.00	19,831.11	12,643.00	117.76	118.35	44.273	-8,080.28	-287.90	627.07	432.80	194.27	3.228		
20,600.00	13,092.00	19,931.11	12,643.00	119.18	119.76	44.272	-8,180.28	-286.94	627.07	430.57	196.49	3.191		
20,700.00	13,092.00	20,031.11	12,643.00	120.60	121.17	44.272	-8,280.27	-285.97	627.07	428.35	198.72	3.156		
20,800.00	13,092.00	20,131.11	12,643.00	122.03	122.58	44.272	-8,380.27	-285.00	627.06	426.12	200.94	3.121		
20,900.00	13,092.00	20,231.11	12,643.00	123.45	124.00	44.272	-8,480.26	-284.04	627.06	423.90	203.16	3.086		
21,000.00	13,092.00	20,331.11	12,643.00	124.87	125.41	44.271	-8,580.26	-283.07	627.06	421.67	205.39	3.053		
21,100.00	13,092.00	20,431.11	12,643.00	126.30	126.82	44.271	-8,680.25	-282.10	627.06	419.44	207.62	3.020		
21,200.00	13,092.00	20,531.11	12,643.00	127.72	128.24	44.271	-8,780.25	-281.14	627.05	417.20	209.85	2.988		
21,300.00	13,092.00	20,631.11	12,643.00	129.15	129.65	44.271	-8,880.24	-280.17	627.05	414.97	212.08	2.957		
21,400.00	13,092.00	20,731.11	12,643.00	130.57	131.07	44.271	-8,980.24	-279.21	627.05	412.74	214.31	2.926		
21,500.00	13,092.00	20,831.11	12,643.00	132.00	132.48	44.270	-9,080.23	-278.24	627.05	410.50	216.55	2.896		
21,600.00	13,092.00	20,931.11	12,643.00	133.42	133.90	44.270	-9,180.23	-277.27	627.04	408.26	218.78	2.866		
21,700.00	13,092.00	21,031.11	12,643.00	134.85	135.32	44.270	-9,280.22	-276.31	627.04	406.02	221.02	2.837		
21,800.00	13,092.00	21,131.11	12,643.00	136.27	136.73	44.270	-9,380.22	-275.34	627.04	403.78	223.26	2.809		
21,900.00	13,092.00	21,231.11	12,643.00	137.70	138.15	44.269	-9,480.21	-274.38	627.04	401.54	225.49	2.781		
22,000.00	13,092.00	21,331.11	12,643.00	139.12	139.57	44.269	-9,580.21	-273.41	627.03	399.30	227.73	2.753		
22,100.00	13,092.00	21,431.11	12,643.00	140.55	140.99	44.269	-9,680.21	-272.44	627.03	397.06	229.98	2.727		
22,200.00	13,092.00	21,531.11	12,643.00	141.98	142.40	44.269	-9,780.20	-271.48	627.03	394.81	232.22	2.700		
22,300.00	13,092.00	21,631.11	12,643.00	143.40	143.82	44.268	-9,880.20	-270.51	627.03	392.57	234.46	2.674		
22,400.00	13,092.00	21,731.11	12,643.00	144.83	145.24	44.268	-9,980.19	-269.54	627.03	390.32	236.71	2.649		
22,500.00	13,092.00	21,831.11	12,643.00	146.26	146.66	44.268	-10,080.19	-268.58	627.02	388.07	238.95	2.624		
22,600.00	13,092.00	21,931.11	12,643.00	147.69	148.08	44.268	-10,180.18	-267.61	627.02	385.82	241.20	2.600		
22,700.00	13,092.00	22,031.11	12,643.00	149.11	149.50	44.268	-10,280.18	-266.65	627.02	383.57	243.44	2.576		
22,728.24	13,092.00	22,059.36	12,643.00	149.52	149.90	44.268	-10,308.42	-266.37	627.02	382.94	244.08	2.569 SF		

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com (NAD83) - El Campeon Fed Com 432H - OH - Plan 1 08-31-22													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+HRGM													<b>Offset Well Error:</b> 1.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum</b>	<b>Separation</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Separation (usft)</b>	<b>Factor</b>	
0.00	0.00	0.00	0.00	1.00	1.00	-90.469	-9.83	-1,200.19	1,200.23				
100.00	100.00	100.00	100.00	1.08	1.08	-90.469	-9.83	-1,200.19	1,200.23	1,198.06	2.17	553.536	
200.00	200.00	200.00	200.00	1.60	1.60	-90.469	-9.83	-1,200.19	1,200.23	1,197.03	3.20	375.398	
300.00	300.00	300.00	300.00	2.01	2.01	-90.469	-9.83	-1,200.19	1,200.23	1,196.21	4.02	298.625	
400.00	400.00	400.00	400.00	2.35	2.35	-90.469	-9.83	-1,200.19	1,200.23	1,195.53	4.71	255.086	
500.00	500.00	500.00	500.00	2.65	2.65	-90.469	-9.83	-1,200.19	1,200.23	1,194.92	5.31	226.109	
600.00	600.00	600.00	600.00	2.93	2.93	-90.469	-9.83	-1,200.19	1,200.23	1,194.38	5.85	205.030	
700.00	700.00	700.00	700.00	3.18	3.18	-90.469	-9.83	-1,200.19	1,200.23	1,193.87	6.36	188.801	
800.00	800.00	800.00	800.00	3.41	3.41	-90.469	-9.83	-1,200.19	1,200.23	1,193.40	6.83	175.801	
900.00	900.00	900.00	900.00	3.64	3.64	-90.469	-9.83	-1,200.19	1,200.23	1,192.96	7.27	165.079	
1,000.00	1,000.00	1,000.00	1,000.00	3.85	3.85	-90.469	-9.83	-1,200.19	1,200.23	1,192.54	7.69	156.037	
1,100.00	1,100.00	1,100.00	1,100.00	4.05	4.05	-90.469	-9.83	-1,200.19	1,200.23	1,192.14	8.09	148.274	
1,200.00	1,200.00	1,200.00	1,200.00	4.24	4.24	-90.469	-9.83	-1,200.19	1,200.23	1,191.75	8.48	141.513	
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	-90.469	-9.83	-1,200.19	1,200.23	1,191.38	8.85	135.553	
1,400.00	1,400.00	1,400.00	1,400.00	4.61	4.61	-90.469	-9.83	-1,200.19	1,200.23	1,191.02	9.21	130.247	
1,500.00	1,500.00	1,500.00	1,500.00	4.78	4.78	-90.469	-9.83	-1,200.19	1,200.23	1,190.67	9.56	125.483	
1,600.00	1,599.98	1,619.51	1,619.47	4.98	5.00	99.543	-12.12	-1,199.20	1,199.71	1,189.89	9.82	122.153	
1,620.70	1,620.67	1,641.44	1,641.38	4.99	5.02	99.545	-13.00	-1,198.82	1,199.48	1,189.65	9.84	121.953	
1,700.00	1,699.89	1,720.73	1,720.60	5.07	5.11	99.548	-16.23	-1,197.42	1,198.67	1,188.70	9.97	120.255	
1,800.00	1,799.81	1,820.73	1,820.49	5.23	5.28	99.551	-20.29	-1,195.66	1,197.64	1,187.42	10.22	117.197	
1,900.00	1,899.72	1,920.72	1,920.39	5.41	5.46	99.555	-24.36	-1,193.90	1,196.61	1,186.12	10.49	114.119	
2,000.00	1,999.63	2,020.72	2,020.29	5.60	5.65	99.558	-28.43	-1,192.14	1,195.58	1,184.83	10.75	111.184	
2,100.00	2,099.54	2,120.71	2,120.18	5.80	5.86	99.561	-32.50	-1,190.38	1,194.55	1,183.53	11.02	108.384	
2,200.00	2,199.45	2,220.71	2,220.08	6.02	6.08	99.565	-36.57	-1,188.61	1,193.52	1,182.23	11.29	105.711	
2,300.00	2,299.36	2,320.70	2,319.98	6.24	6.31	99.568	-40.63	-1,186.85	1,192.49	1,180.93	11.56	103.155	
2,400.00	2,399.27	2,420.69	2,419.87	6.47	6.55	99.572	-44.70	-1,185.09	1,191.46	1,179.63	11.83	100.711	
2,500.00	2,499.18	2,520.69	2,519.77	6.72	6.79	99.575	-48.77	-1,183.33	1,190.43	1,178.33	12.10	98.371	
2,600.00	2,599.10	2,620.68	2,619.67	6.96	7.05	99.579	-52.84	-1,181.57	1,189.40	1,177.03	12.37	96.129	
2,700.00	2,699.01	2,720.68	2,719.56	7.22	7.31	99.582	-56.91	-1,179.81	1,188.37	1,175.73	12.64	93.980	
2,800.00	2,798.92	2,820.67	2,819.46	7.48	7.57	99.585	-60.97	-1,178.05	1,187.34	1,174.43	12.92	91.918	
2,900.00	2,898.83	2,920.67	2,919.35	7.74	7.84	99.589	-65.04	-1,176.29	1,186.31	1,173.12	13.19	89.938	
3,000.00	2,998.74	3,020.66	3,019.25	8.01	8.11	99.592	-69.11	-1,174.52	1,185.28	1,171.82	13.46	88.035	
3,100.00	3,098.65	3,120.66	3,119.15	8.28	8.39	99.596	-73.18	-1,172.76	1,184.25	1,170.52	13.74	86.206	
3,200.00	3,198.56	3,220.65	3,219.04	8.56	8.67	99.599	-77.24	-1,171.00	1,183.22	1,169.21	14.01	84.446	
3,300.00	3,298.47	3,320.65	3,318.94	8.84	8.96	99.603	-81.31	-1,169.24	1,182.19	1,167.91	14.29	82.751	
3,400.00	3,398.39	3,420.64	3,418.84	9.13	9.25	99.606	-85.38	-1,167.48	1,181.17	1,166.60	14.56	81.119	
3,500.00	3,498.30	3,520.64	3,518.73	9.41	9.54	99.610	-89.45	-1,165.72	1,180.14	1,165.30	14.84	79.545	
3,600.00	3,598.21	3,620.63	3,618.63	9.70	9.83	99.613	-93.52	-1,163.96	1,179.11	1,163.99	15.11	78.028	
3,700.00	3,698.12	3,720.63	3,718.53	9.99	10.13	99.617	-97.58	-1,162.20	1,178.08	1,162.69	15.39	76.563	
3,800.00	3,798.03	3,820.62	3,818.42	10.29	10.43	99.620	-101.65	-1,160.43	1,177.05	1,161.38	15.66	75.148	
3,900.00	3,897.94	3,920.62	3,918.32	10.58	10.72	99.624	-105.72	-1,158.67	1,176.02	1,160.08	15.94	73.782	
4,000.00	3,997.85	4,020.61	4,018.22	10.88	11.03	99.627	-109.79	-1,156.91	1,174.99	1,158.77	16.22	72.460	
4,100.00	4,097.76	4,120.60	4,118.11	11.18	11.33	99.631	-113.86	-1,155.15	1,173.96	1,157.47	16.49	71.183	
4,200.00	4,197.68	4,220.60	4,218.01	11.48	11.63	99.634	-117.92	-1,153.39	1,172.93	1,156.16	16.77	69.946	
4,300.00	4,297.59	4,320.59	4,317.90	11.78	11.94	99.638	-121.99	-1,151.63	1,171.90	1,154.85	17.05	68.749	
4,400.00	4,397.50	4,420.59	4,417.80	12.08	12.25	99.642	-126.06	-1,149.87	1,170.87	1,153.55	17.32	67.589	
4,500.00	4,497.41	4,520.58	4,517.70	12.39	12.56	99.645	-130.13	-1,148.11	1,169.84	1,152.24	17.60	66.465	
4,600.00	4,597.32	4,620.58	4,617.59	12.69	12.87	99.649	-134.20	-1,146.34	1,168.81	1,150.93	17.88	65.375	
4,700.00	4,697.23	4,720.57	4,717.49	13.00	13.18	99.652	-138.26	-1,144.58	1,167.78	1,149.63	18.16	64.319	
4,800.00	4,797.14	4,820.57	4,817.39	13.31	13.49	99.656	-142.33	-1,142.82	1,166.75	1,148.32	18.43	63.293	
4,900.00	4,897.05	4,920.56	4,917.28	13.62	13.80	99.659	-146.40	-1,141.06	1,165.72	1,147.01	18.71	62.297	
5,000.00	4,996.97	5,020.56	5,017.18	13.92	14.11	99.663	-150.47	-1,139.30	1,164.69	1,145.70	18.99	61.330	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com (NAD83) - El Campeon Fed Com 432H - OH - Plan 1 08-31-22												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 0-MWD+HRGM												<b>Offset Well Error:</b>	1.00 usft
<b>Rule Assigned:</b>												<b>Warning</b>	
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	5,096.88	5,120.55	5,117.08	14.23	14.43	99.667	-154.54	-1,137.54	1,163.66	1,144.39	19.27	60.391	
5,200.00	5,196.79	5,220.55	5,216.97	14.55	14.74	99.670	-158.60	-1,135.78	1,162.63	1,143.09	19.55	59.478	
5,300.00	5,296.70	5,320.54	5,316.87	14.86	15.06	99.674	-162.67	-1,134.02	1,161.60	1,141.78	19.83	58.590	
5,400.00	5,396.61	5,420.54	5,416.76	15.17	15.37	99.677	-166.74	-1,132.25	1,160.58	1,140.47	20.10	57.726	
5,500.00	5,496.52	5,520.53	5,516.66	15.48	15.69	99.681	-170.81	-1,130.49	1,159.55	1,139.16	20.38	56.885	
5,600.00	5,596.43	5,620.52	5,616.56	15.79	16.01	99.685	-174.87	-1,128.73	1,158.52	1,137.85	20.66	56.067	
5,700.00	5,696.34	5,720.52	5,716.45	16.11	16.33	99.688	-178.94	-1,126.97	1,157.49	1,136.55	20.94	55.271	
5,800.00	5,796.26	5,820.51	5,816.35	16.42	16.65	99.692	-183.01	-1,125.21	1,156.46	1,135.24	21.22	54.495	
5,900.00	5,896.17	5,920.51	5,916.25	16.74	16.96	99.696	-187.08	-1,123.45	1,155.43	1,133.93	21.50	53.739	
6,000.00	5,996.08	6,020.50	6,016.14	17.05	17.28	99.699	-191.15	-1,121.69	1,154.40	1,132.62	21.78	53.002	
6,100.00	6,095.99	6,120.50	6,116.04	17.37	17.60	99.703	-195.21	-1,119.93	1,153.37	1,131.31	22.06	52.284	
6,200.00	6,195.90	6,220.49	6,215.94	17.68	17.92	99.707	-199.28	-1,118.16	1,152.34	1,130.00	22.34	51.583	
6,300.00	6,295.81	6,320.49	6,315.83	18.00	18.24	99.710	-203.35	-1,116.40	1,151.31	1,128.69	22.62	50.899	
6,400.00	6,395.72	6,420.48	6,415.73	18.32	18.56	99.714	-207.42	-1,114.64	1,150.28	1,127.38	22.90	50.232	
6,500.00	6,495.63	6,520.48	6,515.62	18.63	18.89	99.718	-211.49	-1,112.88	1,149.25	1,126.07	23.18	49.581	
6,600.00	6,595.55	6,620.47	6,615.52	18.95	19.21	99.721	-215.55	-1,111.12	1,148.22	1,124.76	23.46	48.945	
6,700.00	6,695.46	6,720.47	6,715.42	19.27	19.53	99.725	-219.62	-1,109.36	1,147.19	1,123.45	23.74	48.324	
6,800.00	6,795.37	6,820.46	6,815.31	19.59	19.85	99.729	-223.69	-1,107.60	1,146.16	1,122.14	24.02	47.717	
6,900.00	6,895.28	6,920.46	6,915.21	19.91	20.17	99.733	-227.76	-1,105.84	1,145.13	1,120.83	24.30	47.124	
7,000.00	6,995.19	7,020.45	7,015.11	20.23	20.50	99.736	-231.83	-1,104.07	1,144.11	1,119.52	24.58	46.545	
7,100.00	7,095.10	7,120.44	7,115.00	20.54	20.82	99.740	-235.89	-1,102.31	1,143.08	1,118.21	24.86	45.978	
7,200.00	7,195.01	7,220.44	7,214.90	20.86	21.14	99.744	-239.96	-1,100.55	1,142.05	1,116.90	25.14	45.424	
7,300.00	7,294.92	7,320.43	7,314.80	21.18	21.47	99.747	-244.03	-1,098.79	1,141.02	1,115.59	25.42	44.882	
7,400.00	7,394.84	7,420.43	7,414.69	21.50	21.79	99.751	-248.10	-1,097.03	1,139.99	1,114.28	25.70	44.351	
7,500.00	7,494.75	7,520.42	7,514.59	21.82	22.11	99.755	-252.17	-1,095.27	1,138.96	1,112.97	25.98	43.832	
7,600.00	7,594.66	7,620.42	7,614.48	22.14	22.44	99.759	-256.23	-1,093.51	1,137.93	1,111.66	26.27	43.324	
7,700.00	7,694.57	7,720.41	7,714.38	22.46	22.76	99.763	-260.30	-1,091.75	1,136.90	1,110.35	26.55	42.827	
7,800.00	7,794.48	7,820.41	7,814.28	22.78	23.09	99.766	-264.37	-1,089.98	1,135.87	1,109.04	26.83	42.340	
7,900.00	7,894.39	7,920.40	7,914.17	23.10	23.41	99.770	-268.44	-1,088.22	1,134.84	1,107.73	27.11	41.863	
8,000.00	7,994.30	8,020.40	8,014.07	23.42	23.74	99.774	-272.50	-1,086.46	1,133.81	1,106.42	27.39	41.395	
8,100.00	8,094.21	8,120.39	8,113.97	23.75	24.06	99.778	-276.57	-1,084.70	1,132.78	1,105.11	27.67	40.937	
8,200.00	8,194.13	8,220.39	8,213.86	24.07	24.39	99.781	-280.64	-1,082.94	1,131.75	1,103.80	27.95	40.488	
8,300.00	8,294.04	8,320.38	8,313.76	24.39	24.71	99.785	-284.71	-1,081.18	1,130.72	1,102.49	28.23	40.048	
8,400.00	8,393.95	8,420.38	8,413.66	24.71	25.04	99.789	-288.78	-1,079.42	1,129.69	1,101.18	28.52	39.616	
8,500.00	8,493.86	8,520.37	8,513.55	25.03	25.36	99.793	-292.84	-1,077.66	1,128.67	1,099.87	28.80	39.193	
8,600.00	8,593.77	8,620.36	8,613.45	25.35	25.69	99.797	-296.91	-1,075.89	1,127.64	1,098.56	29.08	38.778	
8,700.00	8,693.68	8,720.36	8,713.34	25.67	26.01	99.801	-300.98	-1,074.13	1,126.61	1,097.25	29.36	38.371	
8,800.00	8,793.59	8,820.35	8,813.24	26.00	26.34	99.804	-305.05	-1,072.37	1,125.58	1,095.93	29.64	37.971	
8,900.00	8,893.50	8,920.35	8,913.14	26.32	26.67	99.808	-309.12	-1,070.61	1,124.55	1,094.62	29.92	37.579	
9,000.00	8,993.42	9,020.34	9,013.03	26.64	26.99	99.812	-313.18	-1,068.85	1,123.52	1,093.31	30.21	37.194	
9,100.00	9,093.33	9,120.34	9,112.93	26.96	27.32	99.816	-317.25	-1,067.09	1,122.49	1,092.00	30.49	36.817	
9,200.00	9,193.24	9,220.33	9,212.83	27.29	27.65	99.820	-321.32	-1,065.33	1,121.46	1,090.69	30.77	36.446	
9,300.00	9,293.15	9,320.33	9,312.72	27.61	27.97	99.824	-325.39	-1,063.57	1,120.43	1,089.38	31.05	36.081	
9,400.00	9,393.06	9,420.32	9,412.62	27.93	28.30	99.828	-329.46	-1,061.81	1,119.40	1,088.07	31.34	35.724	
9,500.00	9,492.97	9,520.32	9,512.52	28.25	28.63	99.832	-333.52	-1,060.04	1,118.37	1,086.76	31.62	35.372	
9,600.00	9,592.88	9,620.31	9,612.41	28.58	28.95	99.835	-337.59	-1,058.28	1,117.34	1,085.44	31.90	35.027	
9,700.00	9,692.79	9,720.31	9,712.31	28.90	29.28	99.839	-341.66	-1,056.52	1,116.31	1,084.13	32.18	34.687	
9,800.00	9,792.71	9,820.30	9,812.20	29.22	29.61	99.843	-345.73	-1,054.76	1,115.28	1,082.82	32.46	34.354	
9,900.00	9,892.62	9,920.30	9,912.10	29.55	29.93	99.847	-349.80	-1,053.00	1,114.26	1,081.51	32.75	34.026	
10,000.00	9,992.53	10,020.29	10,012.00	29.87	30.26	99.851	-353.86	-1,051.24	1,113.23	1,080.20	33.03	33.704	
10,100.00	10,092.44	10,120.29	10,111.89	30.19	30.59	99.855	-357.93	-1,049.48	1,112.20	1,078.88	33.31	33.387	
10,200.00	10,192.35	10,220.28	10,211.79	30.52	30.92	99.859	-362.00	-1,047.72	1,111.17	1,077.57	33.60	33.075	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com (NAD83) - El Campeon Fed Com 432H - OH - Plan 1 08-31-22												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 0-MWD+HRGM												<b>Offset Well Error:</b>	1.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
10,300.00	10,292.26	10,320.27	10,311.69	30.84	31.24	99.863	-366.07	-1,045.95	1,110.14	1,076.26	33.88	32.768	
10,400.00	10,392.17	10,420.27	10,411.58	31.16	31.57	99.867	-370.13	-1,044.19	1,109.11	1,074.95	34.16	32.467	
10,500.00	10,492.08	10,520.26	10,511.48	31.49	31.90	99.871	-374.20	-1,042.43	1,108.08	1,073.64	34.44	32.170	
10,600.00	10,592.00	10,620.26	10,611.38	31.81	32.23	99.875	-378.27	-1,040.67	1,107.05	1,072.32	34.73	31.879	
10,700.00	10,691.91	10,720.25	10,711.27	32.13	32.55	99.879	-382.34	-1,038.91	1,106.02	1,071.01	35.01	31.591	
10,800.00	10,791.82	10,820.25	10,811.17	32.46	32.88	99.883	-386.41	-1,037.15	1,104.99	1,069.70	35.29	31.309	
10,900.00	10,891.73	10,920.24	10,911.06	32.78	33.21	99.887	-390.47	-1,035.39	1,103.96	1,068.39	35.58	31.031	
11,000.00	10,991.64	11,020.24	11,010.96	33.11	33.54	99.891	-394.54	-1,033.63	1,102.93	1,067.07	35.86	30.757	
11,100.00	11,091.55	11,120.23	11,110.86	33.43	33.87	99.895	-398.61	-1,031.86	1,101.91	1,065.76	36.14	30.487	
11,200.00	11,191.46	11,220.23	11,210.75	33.75	34.19	99.899	-402.68	-1,030.10	1,100.88	1,064.45	36.43	30.222	
11,300.00	11,291.37	11,320.22	11,310.65	34.08	34.52	99.903	-406.75	-1,028.34	1,099.85	1,063.14	36.71	29.960	
11,400.00	11,391.29	11,420.22	11,410.55	34.40	34.85	99.907	-410.81	-1,026.58	1,098.82	1,061.82	36.99	29.703	
11,500.00	11,491.20	11,520.21	11,510.44	34.73	35.18	99.911	-414.88	-1,024.82	1,097.79	1,060.52	37.27	29.453	
11,600.00	11,591.11	11,611.07	11,601.24	35.05	35.44	99.945	-418.00	-1,023.47	1,097.05	1,059.52	37.52	29.235	
11,616.30	11,607.39	11,625.22	11,615.38	35.10	35.46	99.962	-418.27	-1,023.35	1,097.03	1,059.47	37.56	29.207 CC	
11,700.00	11,691.02	11,700.86	11,691.02	35.38	35.53	100.102	-418.71	-1,023.16	1,097.42	1,059.67	37.76	29.064	
11,800.00	11,790.93	11,800.77	11,790.93	35.70	35.53	100.318	-418.71	-1,023.16	1,098.17	1,060.18	37.99	28.908	
11,900.00	11,890.84	11,900.68	11,890.84	36.03	35.54	100.534	-418.71	-1,023.16	1,098.93	1,060.71	38.23	28.747	
11,907.54	11,898.38	11,908.22	11,898.38	36.05	35.54	100.551	-418.71	-1,023.16	1,098.99	1,060.75	38.25	28.734	
12,000.00	11,990.80	12,000.64	11,990.80	36.33	35.55	100.682	-418.71	-1,023.16	1,099.44	1,061.02	38.42	28.619	
12,028.24	12,019.04	12,028.88	12,019.04	36.36	35.55	-89.324	-418.71	-1,023.16	1,099.46	1,061.03	38.43	28.611	
12,100.00	12,090.80	12,100.64	12,090.80	36.36	35.55	-89.324	-418.71	-1,023.16	1,099.46	1,061.04	38.43	28.612	
12,200.00	12,190.80	12,201.61	12,191.76	36.36	35.59	-89.349	-419.20	-1,023.16	1,099.45	1,061.03	38.42	28.615	
12,300.00	12,290.80	12,303.87	12,293.02	36.36	36.12	-90.043	-432.51	-1,023.03	1,099.25	1,061.07	38.19	28.786	
12,340.44	12,331.24	12,343.37	12,331.24	36.37	36.36	-90.561	-442.44	-1,022.93	1,099.21	1,061.21	38.00	28.929	
12,400.00	12,390.80	12,398.65	12,383.39	36.37	36.71	-91.513	-460.72	-1,022.75	1,099.38	1,061.73	37.65	29.199	
12,500.00	12,490.80	12,482.29	12,458.33	36.37	37.23	-93.438	-497.69	-1,022.39	1,101.07	1,064.04	37.03	29.735	
12,528.24	12,519.04	12,503.70	12,476.58	36.37	37.36	-94.019	-508.88	-1,022.28	1,102.03	1,065.17	36.86	29.899	
12,550.00	12,540.79	12,519.72	12,489.96	36.40	37.45	85.999	-517.69	-1,022.19	1,102.92	1,066.17	36.76	30.007	
12,600.00	12,590.61	12,555.90	12,519.23	36.63	37.67	84.782	-538.95	-1,021.98	1,105.36	1,068.72	36.64	30.171	
12,650.00	12,639.89	12,591.28	12,546.49	36.95	37.87	83.582	-561.48	-1,021.76	1,108.26	1,071.60	36.66	30.232	
12,700.00	12,688.24	12,625.97	12,571.83	37.29	38.05	82.408	-585.17	-1,021.53	1,111.54	1,074.73	36.81	30.195	
12,750.00	12,735.30	12,660.08	12,595.30	37.62	38.22	81.267	-609.91	-1,021.29	1,115.12	1,078.04	37.08	30.071	
12,800.00	12,780.72	12,700.00	12,620.84	37.96	38.42	80.032	-640.58	-1,020.99	1,118.92	1,081.52	37.41	29.912	
12,850.00	12,824.15	12,726.82	12,636.77	38.29	38.53	79.112	-662.15	-1,020.78	1,122.80	1,084.86	37.95	29.590	
12,900.00	12,865.26	12,759.59	12,654.84	38.60	38.67	78.114	-689.48	-1,020.51	1,126.74	1,088.23	38.51	29.259	
12,950.00	12,903.73	12,792.02	12,671.16	38.90	38.79	77.176	-717.51	-1,020.24	1,130.64	1,091.49	39.15	28.880	
13,000.00	12,939.27	12,824.17	12,685.74	39.18	38.90	76.307	-746.15	-1,019.96	1,134.43	1,094.57	39.86	28.463	
13,050.00	12,971.62	12,850.00	12,696.28	39.43	38.99	75.590	-769.73	-1,019.73	1,138.05	1,097.39	40.66	27.986	
13,100.00	13,000.52	12,887.76	12,709.74	39.65	39.09	74.794	-805.00	-1,019.38	1,141.38	1,099.96	41.42	27.554	
13,150.00	13,025.76	12,919.27	12,719.19	39.85	39.17	74.160	-835.05	-1,019.09	1,144.43	1,102.16	42.27	27.073	
13,200.00	13,047.14	12,950.00	12,726.79	40.02	39.23	73.617	-864.83	-1,018.80	1,147.13	1,103.97	43.15	26.582	
13,250.00	13,064.50	12,981.87	12,732.97	40.15	39.28	73.153	-896.08	-1,018.49	1,149.42	1,105.36	44.06	26.088	
13,300.00	13,077.71	13,013.01	12,737.33	40.26	39.33	72.787	-926.91	-1,018.19	1,151.28	1,106.30	44.99	25.592	
13,350.00	13,086.67	13,050.00	12,740.32	40.33	39.37	72.491	-963.77	-1,017.83	1,152.71	1,106.83	45.88	25.126	
13,400.00	13,091.30	13,077.88	12,741.00	40.38	39.39	72.331	-991.64	-1,017.55	1,153.60	1,106.75	46.85	24.624	
13,428.24	13,092.00	13,101.61	12,741.00	40.39	39.40	72.289	-1,015.37	-1,017.32	1,153.80	1,106.48	47.32	24.383	
13,500.00	13,092.00	13,173.37	12,741.00	40.40	39.44	72.289	-1,087.13	-1,016.62	1,153.79	1,105.34	48.45	23.815	
13,600.00	13,092.00	13,273.37	12,741.00	40.43	39.51	72.289	-1,187.12	-1,015.64	1,153.78	1,103.67	50.11	23.027	
13,700.00	13,092.00	13,373.37	12,741.00	40.46	39.60	72.289	-1,287.12	-1,014.66	1,153.76	1,101.90	51.86	22.246	
13,800.00	13,092.00	13,473.37	12,741.00	40.50	39.70	72.288	-1,387.11	-1,013.69	1,153.75	1,100.04	53.71	21.482	
13,900.00	13,092.00	13,573.37	12,741.00	40.53	39.82	72.288	-1,487.11	-1,012.71	1,153.73	1,098.10	55.63	20.740	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com (NAD83) - El Campeon Fed Com 432H - OH - Plan 1 08-31-22												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 0-MWD+HRGM												<b>Offset Well Error:</b>	1.00 usft
<b>Rule Assigned:</b>												<b>Warning</b>	
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	
14,000.00	13,092.00	13,673.37	12,741.00	40.58	39.97	72.288	-1,587.10	-1,011.73	1,153.72	1,096.10	57.62	20.024	
14,100.00	13,092.00	13,773.37	12,741.00	40.63	40.14	72.288	-1,687.10	-1,010.75	1,153.70	1,094.03	59.67	19.334	
14,200.00	13,092.00	13,873.37	12,741.00	40.69	40.35	72.287	-1,787.09	-1,009.77	1,153.69	1,091.91	61.78	18.674	
14,300.00	13,092.00	13,973.37	12,741.00	40.76	40.60	72.287	-1,887.09	-1,008.79	1,153.67	1,089.73	63.94	18.043	
14,400.00	13,092.00	14,073.37	12,741.00	40.85	40.91	72.287	-1,987.08	-1,007.82	1,153.66	1,087.51	66.15	17.441	
14,500.00	13,092.00	14,173.37	12,741.00	40.95	41.28	72.287	-2,087.08	-1,006.84	1,153.64	1,085.25	68.39	16.868	
14,600.00	13,092.00	14,273.37	12,741.00	41.10	41.73	72.286	-2,187.08	-1,005.86	1,153.63	1,082.95	70.68	16.322	
14,700.00	13,092.00	14,373.37	12,741.00	41.29	42.27	72.286	-2,287.07	-1,004.88	1,153.61	1,080.61	73.00	15.803	
14,800.00	13,092.00	14,473.37	12,741.00	41.57	42.90	72.286	-2,387.07	-1,003.90	1,153.60	1,078.25	75.35	15.310	
14,900.00	13,092.00	14,573.37	12,741.00	41.99	43.63	72.286	-2,487.06	-1,002.92	1,153.58	1,075.86	77.73	14.842	
15,000.00	13,092.00	14,673.37	12,741.00	42.60	44.46	72.286	-2,587.06	-1,001.95	1,153.57	1,073.44	80.13	14.396	
15,100.00	13,092.00	14,773.37	12,741.00	43.42	45.37	72.285	-2,687.05	-1,000.97	1,153.55	1,071.00	82.56	13.973	
15,200.00	13,092.00	14,873.37	12,741.00	44.43	46.36	72.285	-2,787.05	-999.99	1,153.54	1,068.53	85.01	13.570	
15,300.00	13,092.00	14,973.37	12,741.00	45.56	47.42	72.285	-2,887.04	-999.01	1,153.52	1,066.05	87.47	13.187	
15,400.00	13,092.00	15,073.37	12,741.00	46.76	48.53	72.285	-2,987.04	-998.03	1,153.51	1,063.55	89.96	12.823	
15,500.00	13,092.00	15,173.37	12,741.00	48.01	49.68	72.284	-3,087.03	-997.05	1,153.49	1,061.03	92.46	12.475	
15,600.00	13,092.00	15,273.37	12,741.00	49.30	50.87	72.284	-3,187.03	-996.08	1,153.48	1,058.50	94.98	12.144	
15,700.00	13,092.00	15,373.37	12,741.00	50.61	52.08	72.284	-3,287.02	-995.10	1,153.46	1,055.95	97.51	11.829	
15,800.00	13,092.00	15,473.37	12,741.00	51.93	53.32	72.284	-3,387.02	-994.12	1,153.45	1,053.39	100.06	11.528	
15,900.00	13,092.00	15,573.37	12,741.00	53.27	54.58	72.283	-3,487.01	-993.14	1,153.43	1,050.82	102.61	11.241	
16,000.00	13,092.00	15,673.37	12,741.00	54.61	55.86	72.283	-3,587.01	-992.16	1,153.42	1,048.24	105.18	10.966	
16,100.00	13,092.00	15,773.37	12,741.00	55.97	57.15	72.283	-3,687.00	-991.18	1,153.40	1,045.64	107.76	10.704	
16,200.00	13,092.00	15,873.37	12,741.00	57.33	58.46	72.283	-3,787.00	-990.21	1,153.39	1,043.04	110.35	10.452	
16,300.00	13,092.00	15,973.37	12,741.00	58.69	59.77	72.282	-3,886.99	-989.23	1,153.37	1,040.43	112.94	10.212	
16,400.00	13,092.00	16,073.37	12,741.00	60.06	61.10	72.282	-3,986.99	-988.25	1,153.36	1,037.81	115.55	9.982	
16,500.00	13,092.00	16,173.37	12,741.00	61.44	62.43	72.282	-4,086.98	-987.27	1,153.34	1,035.18	118.16	9.761	
16,600.00	13,092.00	16,273.37	12,741.00	62.81	63.77	72.282	-4,186.98	-986.29	1,153.33	1,032.55	120.78	9.549	
16,700.00	13,092.00	16,373.37	12,741.00	64.20	65.11	72.281	-4,286.97	-985.31	1,153.31	1,029.90	123.41	9.345	
16,800.00	13,092.00	16,473.37	12,741.00	65.58	66.47	72.281	-4,386.97	-984.34	1,153.30	1,027.25	126.04	9.150	
16,900.00	13,092.00	16,573.37	12,741.00	66.97	67.82	72.281	-4,486.97	-983.36	1,153.28	1,024.60	128.68	8.962	
17,000.00	13,092.00	16,673.37	12,741.00	68.36	69.18	72.281	-4,586.96	-982.38	1,153.27	1,021.94	131.33	8.782	
17,100.00	13,092.00	16,773.37	12,741.00	69.75	70.55	72.281	-4,686.96	-981.40	1,153.25	1,019.27	133.98	8.608	
17,200.00	13,092.00	16,873.37	12,741.00	71.14	71.92	72.280	-4,786.95	-980.42	1,153.24	1,016.60	136.63	8.440	
17,300.00	13,092.00	16,973.37	12,741.00	72.54	73.29	72.280	-4,886.95	-979.44	1,153.22	1,013.93	139.29	8.279	
17,400.00	13,092.00	17,073.37	12,741.00	73.94	74.67	72.280	-4,986.94	-978.47	1,153.21	1,011.25	141.96	8.124	
17,500.00	13,092.00	17,173.37	12,741.00	75.34	76.04	72.280	-5,086.94	-977.49	1,153.19	1,008.57	144.63	7.973	
17,600.00	13,092.00	17,273.37	12,741.00	76.74	77.42	72.279	-5,186.93	-976.51	1,153.18	1,005.88	147.30	7.829	
17,700.00	13,092.00	17,373.37	12,741.00	78.14	78.81	72.279	-5,286.93	-975.53	1,153.16	1,003.19	149.98	7.689	
17,800.00	13,092.00	17,473.37	12,741.00	79.55	80.19	72.279	-5,386.92	-974.55	1,153.15	1,000.49	152.66	7.554	
17,900.00	13,092.00	17,573.37	12,741.00	80.95	81.58	72.279	-5,486.92	-973.57	1,153.13	997.79	155.34	7.423	
18,000.00	13,092.00	17,673.37	12,741.00	82.36	82.97	72.278	-5,586.91	-972.60	1,153.12	995.09	158.03	7.297	
18,100.00	13,092.00	17,773.37	12,741.00	83.76	84.36	72.278	-5,686.91	-971.62	1,153.10	992.39	160.72	7.175	
18,200.00	13,092.00	17,873.37	12,741.00	85.17	85.76	72.278	-5,786.90	-970.64	1,153.09	989.68	163.41	7.056	
18,300.00	13,092.00	17,973.37	12,741.00	86.58	87.15	72.278	-5,886.90	-969.66	1,153.07	986.97	166.11	6.942	
18,400.00	13,092.00	18,073.37	12,741.00	87.99	88.55	72.277	-5,986.89	-968.68	1,153.06	984.25	168.81	6.831	
18,500.00	13,092.00	18,173.37	12,741.00	89.40	89.95	72.277	-6,086.89	-967.70	1,153.04	981.54	171.51	6.723	
18,600.00	13,092.00	18,273.37	12,741.00	90.81	91.35	72.277	-6,186.88	-966.73	1,153.03	978.82	174.21	6.619	
18,700.00	13,092.00	18,373.37	12,741.00	92.23	92.75	72.277	-6,286.88	-965.75	1,153.01	976.10	176.91	6.517	
18,800.00	13,092.00	18,473.37	12,741.00	93.64	94.15	72.277	-6,386.87	-964.77	1,153.00	973.38	179.62	6.419	
18,900.00	13,092.00	18,573.37	12,741.00	95.06	95.55	72.276	-6,486.87	-963.79	1,152.98	970.65	182.33	6.324	
19,000.00	13,092.00	18,673.37	12,741.00	96.47	96.96	72.276	-6,586.86	-962.81	1,152.97	967.93	185.04	6.231	
19,100.00	13,092.00	18,773.37	12,741.00	97.89	98.36	72.276	-6,686.86	-961.83	1,152.95	965.20	187.76	6.141	

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





## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com (NAD83) - El Campeon Fed Com 432H - OH - Plan 1 08-31-22													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+HRGM													<b>Offset Well Error:</b> 1.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
19,200.00	13,092.00	18,873.37	12,741.00	99.30	99.77	72.276	-6,786.86	-960.86	1,152.94	962.47	190.47	6.053	
19,300.00	13,092.00	18,973.37	12,741.00	100.72	101.17	72.275	-6,886.85	-959.88	1,152.92	959.74	193.19	5.968	
19,400.00	13,092.00	19,073.37	12,741.00	102.14	102.58	72.275	-6,986.85	-958.90	1,152.91	957.00	195.91	5.885	
19,500.00	13,092.00	19,173.37	12,741.00	103.55	103.99	72.275	-7,086.84	-957.92	1,152.90	954.27	198.63	5.804	
19,600.00	13,092.00	19,273.37	12,741.00	104.97	105.40	72.275	-7,186.84	-956.94	1,152.88	951.53	201.35	5.726	
19,700.00	13,092.00	19,373.37	12,741.00	106.39	106.81	72.274	-7,286.83	-955.96	1,152.87	948.79	204.07	5.649	
19,800.00	13,092.00	19,473.37	12,741.00	107.81	108.22	72.274	-7,386.83	-954.98	1,152.85	946.05	206.80	5.575	
19,900.00	13,092.00	19,573.37	12,741.00	109.23	109.64	72.274	-7,486.82	-954.01	1,152.84	943.31	209.52	5.502	
20,000.00	13,092.00	19,673.37	12,741.00	110.65	111.05	72.274	-7,586.82	-953.03	1,152.82	940.57	212.25	5.431	
20,100.00	13,092.00	19,773.37	12,741.00	112.07	112.46	72.273	-7,686.81	-952.05	1,152.81	937.83	214.98	5.362	
20,200.00	13,092.00	19,873.37	12,741.00	113.49	113.87	72.273	-7,786.81	-951.07	1,152.79	935.08	217.71	5.295	
20,300.00	13,092.00	19,973.37	12,741.00	114.91	115.29	72.273	-7,886.80	-950.09	1,152.78	932.34	220.44	5.229	
20,400.00	13,092.00	20,073.37	12,741.00	116.34	116.70	72.273	-7,986.80	-949.11	1,152.76	929.59	223.17	5.165	
20,500.00	13,092.00	20,173.37	12,741.00	117.76	118.12	72.272	-8,086.79	-948.14	1,152.75	926.84	225.91	5.103	
20,600.00	13,092.00	20,273.37	12,741.00	119.18	119.54	72.272	-8,186.79	-947.16	1,152.73	924.09	228.64	5.042	
20,700.00	13,092.00	20,373.37	12,741.00	120.60	120.95	72.272	-8,286.78	-946.18	1,152.72	921.34	231.38	4.982	
20,800.00	13,092.00	20,473.37	12,741.00	122.03	122.37	72.272	-8,386.78	-945.20	1,152.70	918.59	234.11	4.924	
20,900.00	13,092.00	20,573.37	12,741.00	123.45	123.79	72.272	-8,486.77	-944.22	1,152.69	915.84	236.85	4.867	
21,000.00	13,092.00	20,673.37	12,741.00	124.87	125.20	72.271	-8,586.77	-943.24	1,152.67	913.08	239.59	4.811	
21,100.00	13,092.00	20,773.37	12,741.00	126.30	126.62	72.271	-8,686.76	-942.27	1,152.66	910.33	242.33	4.757	
21,200.00	13,092.00	20,873.37	12,741.00	127.72	128.04	72.271	-8,786.76	-941.29	1,152.64	907.58	245.07	4.703	
21,300.00	13,092.00	20,973.37	12,741.00	129.15	129.46	72.271	-8,886.75	-940.31	1,152.63	904.82	247.81	4.651	
21,400.00	13,092.00	21,073.37	12,741.00	130.57	130.88	72.270	-8,986.75	-939.33	1,152.61	902.06	250.55	4.600	
21,500.00	13,092.00	21,173.37	12,741.00	132.00	132.30	72.270	-9,086.75	-938.35	1,152.60	899.31	253.29	4.551	
21,600.00	13,092.00	21,273.37	12,741.00	133.42	133.72	72.270	-9,186.74	-937.37	1,152.58	896.55	256.03	4.502	
21,700.00	13,092.00	21,373.37	12,741.00	134.85	135.14	72.270	-9,286.74	-936.40	1,152.57	893.79	258.78	4.454	
21,800.00	13,092.00	21,473.37	12,741.00	136.27	136.56	72.269	-9,386.73	-935.42	1,152.55	891.03	261.52	4.407	
21,900.00	13,092.00	21,573.37	12,741.00	137.70	137.98	72.269	-9,486.73	-934.44	1,152.54	888.27	264.26	4.361	
22,000.00	13,092.00	21,673.37	12,741.00	139.12	139.41	72.269	-9,586.72	-933.46	1,152.52	885.51	267.01	4.316	
22,100.00	13,092.00	21,773.37	12,741.00	140.55	140.83	72.269	-9,686.72	-932.48	1,152.51	882.75	269.76	4.272	
22,200.00	13,092.00	21,873.37	12,741.00	141.98	142.25	72.268	-9,786.71	-931.50	1,152.49	879.99	272.50	4.229	
22,300.00	13,092.00	21,973.37	12,741.00	143.40	143.67	72.268	-9,886.71	-930.53	1,152.48	877.23	275.25	4.187	
22,400.00	13,092.00	22,073.37	12,741.00	144.83	145.09	72.268	-9,986.70	-929.55	1,152.46	874.46	278.00	4.146	
22,500.00	13,092.00	22,173.37	12,741.00	146.26	146.52	72.268	-10,086.70	-928.57	1,152.45	871.70	280.75	4.105	
22,600.00	13,092.00	22,273.37	12,741.00	147.69	147.94	72.268	-10,186.69	-927.59	1,152.43	868.94	283.50	4.065	
22,700.00	13,092.00	22,373.37	12,741.00	149.11	149.36	72.267	-10,286.69	-926.61	1,152.42	866.17	286.25	4.026	
22,728.24	13,092.00	22,401.61	12,741.00	149.52	149.77	72.267	-10,314.93	-926.34	1,152.41	865.39	287.02	4.015 ES, SF	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com (NAD83) - El Campeon Fed Com 433H - OH - Plan 1 08-31-22													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+HRGM													<b>Offset Well Error:</b> 1.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Rule Assigned:</b>		<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
0.00	0.00	1.00	0.00	1.00	1.00	89.599	0.21	29.98	29.98				
100.00	100.00	101.00	100.00	1.08	1.09	89.599	0.21	29.98	29.98	27.81	2.17	13.806	
200.00	200.00	201.00	200.00	1.60	1.60	89.599	0.21	29.98	29.98	26.78	3.20	9.366	
300.00	300.00	301.00	300.00	2.01	2.01	89.599	0.21	29.98	29.98	25.96	4.02	7.453	
400.00	400.00	401.00	400.00	2.35	2.36	89.599	0.21	29.98	29.98	25.27	4.71	6.368	
500.00	500.00	501.00	500.00	2.65	2.66	89.599	0.21	29.98	29.98	24.67	5.31	5.645	
600.00	600.00	601.00	600.00	2.93	2.93	89.599	0.21	29.98	29.98	24.12	5.86	5.119	
700.00	700.00	701.00	700.00	3.18	3.18	89.599	0.21	29.98	29.98	23.62	6.36	4.714	
800.00	800.00	801.00	800.00	3.41	3.42	89.599	0.21	29.98	29.98	23.15	6.83	4.390	
900.00	900.00	901.00	900.00	3.64	3.64	89.599	0.21	29.98	29.98	22.71	7.27	4.122	
1,000.00	1,000.00	1,001.00	1,000.00	3.85	3.85	89.599	0.21	29.98	29.98	22.29	7.69	3.897	
1,100.00	1,100.00	1,101.00	1,100.00	4.05	4.05	89.599	0.21	29.98	29.98	21.88	8.10	3.703	
1,200.00	1,200.00	1,201.00	1,200.00	4.24	4.24	89.599	0.21	29.98	29.98	21.50	8.48	3.534	
1,300.00	1,300.00	1,301.00	1,300.00	4.43	4.43	89.599	0.21	29.98	29.98	21.12	8.86	3.385	
1,400.00	1,400.00	1,401.00	1,400.00	4.61	4.61	89.599	0.21	29.98	29.98	20.76	9.22	3.253	
1,416.33	1,416.33	1,417.33	1,416.33	4.64	4.64	89.599	0.21	29.98	29.98	20.71	9.27	3.233 CC	
1,500.00	1,500.00	1,501.00	1,500.00	4.78	4.78	89.599	0.21	29.98	29.98	20.41	9.57	3.134 ES	
1,600.00	1,599.98	1,600.60	1,599.58	4.98	4.98	-80.529	-1.42	30.66	30.36	20.54	9.82	3.093	
1,620.70	1,620.67	1,621.22	1,620.18	4.99	5.10	-80.607	-2.16	30.97	30.53	20.67	9.86	3.097	
1,700.00	1,699.89	1,700.18	1,699.01	5.07	5.60	-79.114	-6.24	32.67	31.66	21.57	10.09	3.138	
1,800.00	1,799.81	1,800.13	1,798.73	5.23	5.91	-75.266	-12.68	35.35	33.72	23.30	10.42	3.237	
1,900.00	1,899.72	1,900.09	1,898.44	5.41	6.08	-71.875	-19.11	38.03	35.91	25.18	10.74	3.345	
2,000.00	1,999.63	2,000.04	1,998.15	5.60	6.27	-68.883	-25.54	40.70	38.22	27.15	11.06	3.454	
2,100.00	2,099.54	2,100.00	2,097.86	5.80	6.47	-66.238	-31.98	43.38	40.62	29.21	11.41	3.561	
2,200.00	2,199.45	2,199.95	2,197.57	6.02	6.68	-63.892	-38.41	46.06	43.09	31.33	11.76	3.663	
2,300.00	2,299.36	2,299.91	2,297.28	6.24	6.91	-61.804	-44.85	48.74	45.63	33.49	12.14	3.759	
2,400.00	2,399.27	2,399.86	2,396.99	6.47	7.15	-59.938	-51.28	51.42	48.22	35.70	12.53	3.850	
2,500.00	2,499.18	2,499.82	2,496.71	6.72	7.41	-58.263	-57.71	54.10	50.86	37.93	12.93	3.933	
2,600.00	2,599.10	2,599.77	2,596.42	6.96	7.67	-56.756	-64.15	56.78	53.54	40.19	13.35	4.010	
2,700.00	2,699.01	2,699.72	2,696.13	7.22	7.94	-55.392	-70.58	59.46	56.25	42.46	13.79	4.080	
2,800.00	2,798.92	2,799.68	2,795.84	7.48	8.21	-54.155	-77.01	62.14	58.99	44.75	14.23	4.144	
2,900.00	2,898.83	2,899.63	2,895.55	7.74	8.50	-53.028	-83.45	64.82	61.75	47.06	14.70	4.202	
3,000.00	2,998.74	2,999.59	2,995.26	8.01	8.79	-51.998	-89.88	67.49	64.54	49.37	15.17	4.255	
3,100.00	3,098.65	3,099.54	3,094.98	8.28	9.08	-51.053	-96.32	70.17	67.35	51.69	15.65	4.303	
3,200.00	3,198.56	3,199.50	3,194.69	8.56	9.38	-50.184	-102.75	72.85	70.17	54.02	16.15	4.346	
3,300.00	3,298.47	3,299.45	3,294.40	8.84	9.69	-49.383	-109.18	75.53	73.01	56.36	16.65	4.385	
3,400.00	3,398.39	3,399.41	3,394.11	9.13	10.00	-48.641	-115.62	78.21	75.86	58.69	17.16	4.420	
3,500.00	3,498.30	3,499.36	3,493.82	9.41	10.31	-47.954	-122.05	80.89	78.72	61.04	17.68	4.451	
3,600.00	3,598.21	3,599.32	3,593.53	9.70	10.63	-47.315	-128.48	83.57	81.59	63.38	18.21	4.480	
3,700.00	3,698.12	3,699.27	3,693.24	9.99	10.95	-46.719	-134.92	86.25	84.48	65.73	18.75	4.506	
3,800.00	3,798.03	3,799.23	3,792.96	10.29	11.27	-46.163	-141.35	88.93	87.37	68.08	19.29	4.529	
3,900.00	3,897.94	3,899.18	3,892.67	10.58	11.60	-45.642	-147.79	91.61	90.27	70.43	19.84	4.551	
4,000.00	3,997.85	3,999.14	3,992.38	10.88	11.93	-45.154	-154.22	94.28	93.17	72.78	20.39	4.570	
4,100.00	4,097.76	4,099.09	4,092.09	11.18	12.26	-44.695	-160.65	96.96	96.09	75.14	20.95	4.587	
4,200.00	4,197.68	4,199.05	4,191.80	11.48	12.59	-44.264	-167.09	99.64	99.00	77.49	21.51	4.603	
4,300.00	4,297.59	4,299.00	4,291.51	11.78	12.92	-43.857	-173.52	102.32	101.93	79.85	22.08	4.617	
4,400.00	4,397.50	4,398.95	4,391.22	12.08	13.26	-43.473	-179.95	105.00	104.86	82.21	22.65	4.630	
4,500.00	4,497.41	4,498.91	4,490.94	12.39	13.60	-43.109	-186.39	107.68	107.79	84.57	23.22	4.642	
4,600.00	4,597.32	4,598.86	4,590.65	12.69	13.94	-42.765	-192.82	110.36	110.73	86.93	23.80	4.653	
4,700.00	4,697.23	4,698.82	4,690.36	13.00	14.28	-42.439	-199.26	113.04	113.67	89.29	24.38	4.662	
4,800.00	4,797.14	4,798.77	4,790.07	13.31	14.62	-42.129	-205.69	115.72	116.61	91.65	24.96	4.671	
4,900.00	4,897.05	4,898.73	4,889.78	13.62	14.96	-41.835	-212.12	118.40	119.56	94.01	25.55	4.679	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com (NAD83) - El Campeon Fed Com 433H - OH - Plan 1 08-31-22													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+HRGM													<b>Offset Well Error:</b> 1.00 usft
<b>Rule Assigned:</b>													
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
5,000.00	4,996.97	4,998.68	4,989.49	13.92	15.31	-41.554	-218.56	121.08	122.51	96.37	26.14	4.687	
5,100.00	5,096.88	5,098.64	5,089.20	14.23	15.65	-41.287	-224.99	123.75	125.46	98.73	26.73	4.694	
5,200.00	5,196.79	5,198.59	5,188.92	14.55	16.00	-41.032	-231.42	126.43	128.42	101.09	27.32	4.700	
5,300.00	5,296.70	5,298.55	5,288.63	14.86	16.35	-40.789	-237.86	129.11	131.37	103.45	27.92	4.706	
5,400.00	5,396.61	5,398.50	5,388.34	15.17	16.70	-40.556	-244.29	131.79	134.33	105.82	28.52	4.711	
5,500.00	5,496.52	5,498.46	5,488.05	15.48	17.04	-40.334	-250.73	134.47	137.30	108.18	29.12	4.715	
5,600.00	5,596.43	5,598.41	5,587.76	15.79	17.39	-40.120	-257.16	137.15	140.26	110.54	29.72	4.720	
5,700.00	5,696.34	5,698.37	5,687.47	16.11	17.75	-39.916	-263.59	139.83	143.23	112.91	30.32	4.724	
5,800.00	5,796.26	5,798.32	5,787.18	16.42	18.10	-39.720	-270.03	142.51	146.20	115.27	30.93	4.727	
5,900.00	5,896.17	5,898.28	5,886.90	16.74	18.45	-39.532	-276.46	145.19	149.17	117.63	31.53	4.731	
6,000.00	5,996.08	5,998.23	5,986.61	17.05	18.80	-39.351	-282.89	147.87	152.14	120.00	32.14	4.734	
6,100.00	6,095.99	6,098.19	6,086.32	17.37	19.15	-39.177	-289.33	150.54	155.11	122.36	32.75	4.736	
6,200.00	6,195.90	6,198.14	6,186.03	17.68	19.51	-39.009	-295.76	153.22	158.08	124.73	33.36	4.739	
6,300.00	6,295.81	6,298.09	6,285.74	18.00	19.86	-38.848	-302.20	155.90	161.06	127.09	33.97	4.741	
6,400.00	6,395.72	6,398.05	6,385.45	18.32	20.22	-38.693	-308.63	158.58	164.04	129.45	34.58	4.743	
6,500.00	6,495.63	6,498.00	6,485.16	18.63	20.57	-38.543	-315.06	161.26	167.01	131.82	35.19	4.745	
6,600.00	6,595.55	6,597.96	6,584.88	18.95	20.93	-38.398	-321.50	163.94	169.99	134.18	35.81	4.747	
6,700.00	6,695.46	6,697.91	6,684.59	19.27	21.29	-38.258	-327.93	166.62	172.97	136.55	36.42	4.749	
6,800.00	6,795.37	6,797.87	6,784.30	19.59	21.64	-38.124	-334.36	169.30	175.95	138.91	37.04	4.750	
6,900.00	6,895.28	6,897.82	6,884.01	19.91	22.00	-37.993	-340.80	171.98	178.94	141.28	37.66	4.752	
7,000.00	6,995.19	6,997.78	6,983.72	20.23	22.36	-37.867	-347.23	174.66	181.92	143.64	38.27	4.753	
7,100.00	7,095.10	7,097.73	7,083.43	20.54	22.71	-37.745	-353.67	177.33	184.90	146.01	38.89	4.754	
7,200.00	7,195.01	7,197.69	7,183.15	20.86	23.07	-37.627	-360.10	180.01	187.89	148.37	39.51	4.755	
7,300.00	7,294.92	7,297.64	7,282.86	21.18	23.43	-37.512	-366.53	182.69	190.87	150.74	40.13	4.756	
7,400.00	7,394.84	7,397.60	7,382.57	21.50	23.79	-37.401	-372.97	185.37	193.86	153.10	40.75	4.757	
7,500.00	7,494.75	7,497.55	7,482.28	21.82	24.15	-37.294	-379.40	188.05	196.84	155.47	41.37	4.758	
7,600.00	7,594.66	7,597.51	7,581.99	22.14	24.51	-37.189	-385.83	190.73	199.83	157.84	42.00	4.758	
7,700.00	7,694.57	7,697.46	7,681.70	22.46	24.87	-37.088	-392.27	193.41	202.82	160.20	42.62	4.759	
7,800.00	7,794.48	7,797.42	7,781.41	22.78	25.23	-36.990	-398.70	196.09	205.81	162.57	43.24	4.760	
7,900.00	7,894.39	7,897.37	7,881.13	23.10	25.59	-36.894	-405.14	198.77	208.80	164.93	43.86	4.760	
8,000.00	7,994.30	7,997.32	7,980.84	23.42	25.95	-36.801	-411.57	201.45	211.79	167.30	44.49	4.760	
8,100.00	8,094.21	8,097.28	8,080.55	23.75	26.31	-36.711	-418.00	204.13	214.78	169.66	45.11	4.761	
8,200.00	8,194.13	8,197.23	8,180.26	24.07	26.67	-36.623	-424.44	206.80	217.77	172.03	45.74	4.761	
8,300.00	8,294.04	8,297.19	8,279.97	24.39	27.03	-36.538	-430.87	209.48	220.76	174.40	46.36	4.762	
8,400.00	8,393.95	8,397.14	8,379.68	24.71	27.39	-36.455	-437.30	212.16	223.75	176.76	46.99	4.762	
8,500.00	8,493.86	8,497.10	8,479.39	25.03	27.75	-36.374	-443.74	214.84	226.74	179.13	47.62	4.762	
8,600.00	8,593.77	8,597.05	8,579.11	25.35	28.11	-36.295	-450.17	217.52	229.74	181.49	48.24	4.762	
8,700.00	8,693.68	8,697.01	8,678.82	25.67	28.47	-36.218	-456.61	220.20	232.73	183.86	48.87	4.762	
8,800.00	8,793.59	8,796.96	8,778.53	26.00	28.84	-36.143	-463.04	222.88	235.72	186.23	49.50	4.762	
8,900.00	8,893.50	8,896.92	8,878.24	26.32	29.20	-36.070	-469.47	225.56	238.72	188.59	50.12	4.763	
9,000.00	8,993.42	8,996.87	8,977.95	26.64	29.56	-35.999	-475.91	228.24	241.71	190.96	50.75	4.763	
9,100.00	9,093.33	9,096.83	9,077.66	26.96	29.92	-35.930	-482.34	230.92	244.71	193.32	51.38	4.763	
9,200.00	9,193.24	9,196.78	9,177.37	27.29	30.28	-35.862	-488.77	233.59	247.70	195.69	52.01	4.763	
9,300.00	9,293.15	9,296.74	9,277.09	27.61	30.65	-35.796	-495.21	236.27	250.70	198.06	52.64	4.763	
9,400.00	9,393.06	9,396.69	9,376.80	27.93	31.01	-35.731	-501.64	238.95	253.69	200.42	53.27	4.763	
9,500.00	9,492.97	9,496.65	9,476.51	28.25	31.37	-35.668	-508.08	241.63	256.69	202.79	53.90	4.763	
9,600.00	9,592.88	9,596.60	9,576.22	28.58	31.74	-35.607	-514.51	244.31	259.68	205.16	54.53	4.762	
9,700.00	9,692.79	9,696.56	9,676.93	28.90	32.10	-35.546	-520.94	246.99	262.68	207.52	55.16	4.762	
9,800.00	9,792.71	9,796.51	9,775.64	29.22	32.46	-35.488	-527.38	249.67	265.68	209.89	55.79	4.762	
9,900.00	9,892.62	9,896.46	9,875.35	29.55	32.83	-35.430	-533.81	252.35	268.67	212.26	56.42	4.762	
10,000.00	9,992.53	9,996.42	9,975.07	29.87	33.19	-35.374	-540.24	255.03	271.67	214.62	57.05	4.762	
10,100.00	10,092.44	10,096.37	10,074.78	30.19	33.55	-35.319	-546.68	257.71	274.67	216.99	57.68	4.762	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com (NAD83) - El Campeon Fed Com 433H - OH - Plan 1 08-31-22													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+HRGM													<b>Offset Well Error:</b> 1.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
10,200.00	10,192.35	10,196.33	10,174.49	30.52	33.92	-35.265	-553.11	260.38	277.67	219.36	58.31	4.762	
10,300.00	10,292.26	10,296.28	10,274.20	30.84	34.28	-35.212	-559.55	263.06	280.66	221.72	58.94	4.762	
10,400.00	10,392.17	10,396.24	10,373.91	31.16	34.64	-35.161	-565.98	265.74	283.66	224.09	59.57	4.761	
10,500.00	10,492.08	10,496.19	10,473.62	31.49	35.01	-35.110	-572.41	268.42	286.66	226.46	60.21	4.761	
10,600.00	10,592.00	10,596.15	10,573.33	31.81	35.37	-35.061	-578.85	271.10	289.66	228.82	60.84	4.761	
10,700.00	10,691.91	10,696.10	10,673.05	32.13	35.74	-35.012	-585.28	273.78	292.66	231.19	61.47	4.761	
10,800.00	10,791.82	10,796.06	10,772.76	32.46	36.10	-34.965	-591.71	276.46	295.66	233.56	62.10	4.761	
10,900.00	10,891.73	10,896.01	10,872.47	32.78	36.47	-34.918	-598.15	279.14	298.66	235.92	62.74	4.761	
11,000.00	10,991.64	10,995.97	10,972.18	33.11	36.83	-34.873	-604.58	281.82	301.66	238.29	63.37	4.760	
11,100.00	11,091.55	11,095.92	11,071.89	33.43	37.20	-34.828	-611.02	284.50	304.66	240.66	64.00	4.760	
11,200.00	11,191.46	11,195.88	11,171.60	33.75	37.56	-34.784	-617.45	287.17	307.66	243.02	64.64	4.760	
11,300.00	11,291.37	11,295.83	11,271.31	34.08	37.92	-34.741	-623.88	289.85	310.66	245.39	65.27	4.760	
11,400.00	11,391.29	11,395.79	11,371.03	34.40	38.29	-34.699	-630.32	292.53	313.66	247.76	65.90	4.759	
11,500.00	11,491.20	11,495.74	11,470.74	34.73	38.65	-34.658	-636.75	295.21	316.66	250.12	66.54	4.759	
11,600.00	11,591.11	11,605.51	11,580.33	35.05	39.04	-34.720	-642.36	297.55	318.35	251.22	67.13	4.742	
11,700.00	11,691.02	11,716.22	11,691.02	35.38	39.34	-35.071	-644.13	298.28	316.48	249.00	67.48	4.690	
11,800.00	11,790.93	11,816.13	11,790.93	35.70	39.34	-35.513	-644.13	298.28	313.04	245.50	67.54	4.635	
11,900.00	11,890.84	11,916.04	11,890.84	36.03	39.35	-35.966	-644.13	298.28	309.62	242.02	67.60	4.580	
11,907.54	11,898.38	11,923.58	11,898.38	36.05	39.35	-36.001	-644.13	298.28	309.36	241.76	67.61	4.576	
12,000.00	11,990.80	12,016.00	11,990.80	36.33	39.35	-36.241	-644.13	298.28	307.42	239.71	67.71	4.540	
12,028.24	12,019.04	12,044.24	12,019.04	36.36	39.35	133.731	-644.13	298.28	307.31	239.58	67.73	4.537	
12,100.00	12,090.80	12,116.00	12,090.80	36.36	39.36	133.731	-644.13	298.28	307.31	239.58	67.73	4.537	
12,114.63	12,105.43	12,130.63	12,105.43	36.36	39.36	133.731	-644.13	298.28	307.31	239.58	67.73	4.537	
12,200.00	12,190.80	12,210.24	12,185.04	36.36	39.36	133.731	-644.13	298.28	307.36	239.59	67.77	4.535	
12,300.00	12,290.80	12,286.73	12,261.30	36.36	39.62	134.404	-649.22	298.33	312.29	243.92	68.37	4.568	
12,400.00	12,390.80	12,350.00	12,323.42	36.37	39.98	135.910	-661.09	298.45	326.41	257.23	69.19	4.718	
12,500.00	12,490.80	12,422.43	12,392.41	36.37	40.43	138.485	-682.97	298.66	349.71	279.33	70.38	4.969	
12,528.24	12,519.04	12,440.07	12,408.75	36.37	40.54	139.216	-689.60	298.72	358.03	287.41	70.62	5.070	
12,550.00	12,540.79	12,450.00	12,417.86	36.40	40.60	-39.376	-693.56	298.76	364.68	294.03	70.65	5.162	
12,600.00	12,590.61	12,484.06	12,448.56	36.63	40.81	-37.198	-708.32	298.90	379.22	308.07	71.15	5.330	
12,650.00	12,639.89	12,514.44	12,475.15	36.95	41.00	-35.452	-723.00	299.04	392.74	321.36	71.38	5.502	
12,700.00	12,688.24	12,550.00	12,505.24	37.29	41.22	-33.845	-741.94	299.22	405.17	333.43	71.74	5.648	
12,750.00	12,735.30	12,574.69	12,525.41	37.62	41.36	-32.719	-756.17	299.36	416.23	344.79	71.44	5.826	
12,800.00	12,780.72	12,600.00	12,545.43	37.96	41.50	-31.749	-771.65	299.51	426.05	355.00	71.05	5.996	
12,850.00	12,824.15	12,634.40	12,571.51	38.29	41.69	-30.831	-794.08	299.73	434.40	363.33	71.07	6.113	
12,900.00	12,865.26	12,664.11	12,592.91	38.60	41.85	-30.157	-814.68	299.92	441.33	370.58	70.74	6.238	
12,950.00	12,903.73	12,700.00	12,617.30	38.90	42.03	-29.599	-841.00	300.18	446.84	376.12	70.72	6.319	
13,000.00	12,939.27	12,723.34	12,632.26	39.18	42.14	-29.283	-858.92	300.35	450.68	380.80	69.88	6.449	
13,050.00	12,971.62	12,750.00	12,648.43	39.43	42.27	-29.074	-880.10	300.55	453.07	383.90	69.17	6.550	
13,100.00	13,000.52	12,782.44	12,666.76	39.65	42.40	-28.995	-906.86	300.81	453.87	385.09	68.77	6.599	
13,150.00	13,025.76	12,811.98	12,682.10	39.85	42.52	-29.062	-932.10	301.05	453.12	384.97	68.15	6.649	
13,200.00	13,047.14	12,850.00	12,699.91	40.02	42.66	-29.304	-965.68	301.38	450.95	382.91	68.04	6.628	
13,250.00	13,064.50	12,871.12	12,708.82	40.15	42.72	-29.625	-984.83	301.56	446.96	380.18	66.78	6.693	
13,300.00	13,077.71	12,900.00	12,719.86	40.26	42.81	-30.124	-1,011.51	301.82	441.59	375.58	66.01	6.690	
13,350.00	13,086.67	12,930.47	12,730.03	40.33	42.89	-30.799	-1,040.23	302.10	434.72	369.41	65.31	6.656	
13,400.00	13,091.30	12,960.26	12,738.48	40.38	42.96	-31.640	-1,068.79	302.37	426.40	361.85	64.55	6.606	
13,428.24	13,092.00	12,977.14	12,742.61	40.39	42.99	-32.198	-1,085.16	302.53	421.08	357.00	64.08	6.571	
13,500.00	13,092.00	13,020.76	12,751.03	40.40	43.07	-32.831	-1,127.94	302.94	409.32	346.42	62.90	6.507	
13,600.00	13,092.00	13,083.22	12,757.36	40.43	43.14	-33.322	-1,190.05	303.54	400.79	339.34	61.45	6.523	
13,700.00	13,092.00	13,167.44	12,758.00	40.46	43.19	-33.372	-1,274.25	304.35	399.95	338.48	61.47	6.507	
13,708.78	13,092.00	13,176.22	12,758.00	40.46	43.20	-33.372	-1,283.03	304.43	399.95	338.39	61.55	6.497	
13,800.00	13,092.00	13,267.44	12,758.00	40.50	43.25	-33.372	-1,374.24	305.31	399.95	337.46	62.49	6.400	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com (NAD83) - El Campeon Fed Com 433H - OH - Plan 1 08-31-22												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 0-MWD+HRGM												<b>Offset Well Error:</b>	1.00 usft
<b>Rule Assigned:</b>												<b>Warning</b>	
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	13,092.00	13,367.44	12,758.00	40.53	43.33	-33.372	-1,474.24	306.27	399.95	336.38	63.56	6.292	
14,000.00	13,092.00	13,467.44	12,758.00	40.58	43.42	-33.372	-1,574.23	307.24	399.95	335.26	64.69	6.183	
14,100.00	13,092.00	13,567.44	12,758.00	40.63	43.52	-33.372	-1,674.23	308.20	399.95	334.09	65.85	6.073	
14,200.00	13,092.00	13,667.44	12,758.00	40.69	43.65	-33.372	-1,774.23	309.16	399.95	332.88	67.06	5.964	
14,300.00	13,092.00	13,767.44	12,758.00	40.76	43.80	-33.372	-1,874.22	310.12	399.94	331.64	68.31	5.855	
14,400.00	13,092.00	13,867.44	12,758.00	40.85	43.99	-33.372	-1,974.22	311.08	399.94	330.35	69.60	5.747	
14,500.00	13,092.00	13,967.44	12,758.00	40.95	44.20	-33.372	-2,074.21	312.05	399.94	329.02	70.92	5.639	
14,600.00	13,092.00	14,067.44	12,758.00	41.10	44.47	-33.372	-2,174.21	313.01	399.94	327.67	72.28	5.533	
14,700.00	13,092.00	14,167.44	12,758.00	41.29	44.79	-33.372	-2,274.20	313.97	399.94	326.28	73.67	5.429	
14,800.00	13,092.00	14,267.44	12,758.00	41.57	45.18	-33.372	-2,374.20	314.93	399.94	324.86	75.09	5.326	
14,900.00	13,092.00	14,367.44	12,758.00	41.99	45.64	-33.372	-2,474.19	315.90	399.94	323.41	76.54	5.225	
15,000.00	13,092.00	14,467.44	12,758.00	42.60	46.20	-33.372	-2,574.19	316.86	399.94	321.93	78.01	5.127	
15,100.00	13,092.00	14,567.44	12,758.00	43.42	46.86	-33.372	-2,674.18	317.82	399.94	320.43	79.52	5.030	
15,200.00	13,092.00	14,667.44	12,758.00	44.43	47.61	-33.372	-2,774.18	318.78	399.94	318.90	81.04	4.935	
15,300.00	13,092.00	14,767.44	12,758.00	45.56	48.46	-33.372	-2,874.17	319.75	399.94	317.35	82.59	4.842	
15,400.00	13,092.00	14,867.44	12,758.00	46.76	49.40	-33.372	-2,974.17	320.71	399.94	315.78	84.16	4.752	
15,500.00	13,092.00	14,967.44	12,758.00	48.01	50.41	-33.372	-3,074.17	321.67	399.94	314.19	85.75	4.664	
15,600.00	13,092.00	15,067.44	12,758.00	49.30	51.48	-33.372	-3,174.16	322.63	399.94	312.58	87.36	4.578	
15,700.00	13,092.00	15,167.44	12,758.00	50.61	52.60	-33.372	-3,274.16	323.60	399.94	310.95	88.99	4.494	
15,800.00	13,092.00	15,267.44	12,758.00	51.93	53.77	-33.372	-3,374.15	324.56	399.94	309.30	90.64	4.413	
15,900.00	13,092.00	15,367.44	12,758.00	53.27	54.97	-33.372	-3,474.15	325.52	399.94	307.64	92.30	4.333	
16,000.00	13,092.00	15,467.44	12,758.00	54.61	56.19	-33.372	-3,574.14	326.48	399.94	305.96	93.98	4.256	
16,100.00	13,092.00	15,567.44	12,758.00	55.97	57.44	-33.372	-3,674.14	327.45	399.94	304.27	95.67	4.180	
16,200.00	13,092.00	15,667.44	12,758.00	57.33	58.71	-33.372	-3,774.13	328.41	399.94	302.56	97.38	4.107	
16,300.00	13,092.00	15,767.44	12,758.00	58.69	60.00	-33.372	-3,874.13	329.37	399.94	300.84	99.10	4.036	
16,400.00	13,092.00	15,867.44	12,758.00	60.06	61.30	-33.372	-3,974.12	330.33	399.94	299.11	100.83	3.967	
16,500.00	13,092.00	15,967.44	12,758.00	61.44	62.61	-33.372	-4,074.12	331.30	399.94	297.37	102.57	3.899	
16,600.00	13,092.00	16,067.44	12,758.00	62.81	63.93	-33.371	-4,174.11	332.26	399.94	295.61	104.33	3.833	
16,700.00	13,092.00	16,167.44	12,758.00	64.20	65.26	-33.371	-4,274.11	333.22	399.94	293.85	106.10	3.770	
16,800.00	13,092.00	16,267.44	12,758.00	65.58	66.59	-33.371	-4,374.10	334.18	399.94	292.07	107.87	3.708	
16,900.00	13,092.00	16,367.44	12,758.00	66.97	67.94	-33.371	-4,474.10	335.15	399.94	290.28	109.66	3.647	
17,000.00	13,092.00	16,467.44	12,758.00	68.36	69.29	-33.371	-4,574.10	336.11	399.94	288.49	111.45	3.588	
17,100.00	13,092.00	16,567.44	12,758.00	69.75	70.64	-33.371	-4,674.09	337.07	399.94	286.68	113.26	3.531	
17,200.00	13,092.00	16,667.44	12,758.00	71.14	72.00	-33.371	-4,774.09	338.03	399.94	284.87	115.07	3.476	
17,300.00	13,092.00	16,767.44	12,758.00	72.54	73.36	-33.371	-4,874.08	339.00	399.94	283.05	116.89	3.422	
17,400.00	13,092.00	16,867.44	12,758.00	73.94	74.73	-33.371	-4,974.08	339.96	399.94	281.22	118.72	3.369	
17,500.00	13,092.00	16,967.44	12,758.00	75.34	76.10	-33.371	-5,074.07	340.92	399.94	279.39	120.55	3.318	
17,600.00	13,092.00	17,067.44	12,758.00	76.74	77.48	-33.371	-5,174.07	341.88	399.94	277.54	122.40	3.268	
17,700.00	13,092.00	17,167.44	12,758.00	78.14	78.85	-33.371	-5,274.06	342.84	399.94	275.70	124.24	3.219	
17,800.00	13,092.00	17,267.44	12,758.00	79.55	80.23	-33.371	-5,374.06	343.81	399.94	273.84	126.10	3.172	
17,900.00	13,092.00	17,367.44	12,758.00	80.95	81.62	-33.371	-5,474.05	344.77	399.94	271.98	127.96	3.125	
18,000.00	13,092.00	17,467.44	12,758.00	82.36	83.00	-33.371	-5,574.05	345.73	399.94	270.11	129.83	3.081	
18,100.00	13,092.00	17,567.44	12,758.00	83.76	84.39	-33.371	-5,674.04	346.69	399.94	268.24	131.70	3.037	
18,200.00	13,092.00	17,667.44	12,758.00	85.17	85.78	-33.371	-5,774.04	347.66	399.94	266.36	133.58	2.994	
18,300.00	13,092.00	17,767.44	12,758.00	86.58	87.17	-33.371	-5,874.04	348.62	399.94	264.48	135.46	2.952	
18,400.00	13,092.00	17,867.44	12,758.00	87.99	88.56	-33.371	-5,974.03	349.58	399.94	262.59	137.35	2.912	
18,500.00	13,092.00	17,967.44	12,758.00	89.40	89.95	-33.371	-6,074.03	350.54	399.94	260.70	139.24	2.872	
18,600.00	13,092.00	18,067.44	12,758.00	90.81	91.35	-33.371	-6,174.02	351.51	399.94	258.80	141.14	2.834	
18,700.00	13,092.00	18,167.44	12,758.00	92.23	92.75	-33.371	-6,274.02	352.47	399.94	256.90	143.04	2.796	
18,800.00	13,092.00	18,267.44	12,758.00	93.64	94.15	-33.371	-6,374.01	353.43	399.94	254.99	144.95	2.759	
18,900.00	13,092.00	18,367.44	12,758.00	95.06	95.55	-33.371	-6,474.01	354.39	399.94	253.08	146.86	2.723	
19,000.00	13,092.00	18,467.44	12,758.00	96.47	96.95	-33.371	-6,574.00	355.36	399.94	251.17	148.77	2.688	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com (NAD83) - El Campeon Fed Com 433H - OH - Plan 1 08-31-22												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 0-MWD+HRGM												<b>Offset Well Error:</b>	1.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
19,100.00	13,092.00	18,567.44	12,758.00	97.89	98.35	-33.371	-6,674.00	356.32	399.94	249.25	150.69	2.654	
19,200.00	13,092.00	18,667.44	12,758.00	99.30	99.75	-33.371	-6,773.99	357.28	399.94	247.33	152.61	2.621	
19,300.00	13,092.00	18,767.44	12,758.00	100.72	101.16	-33.371	-6,873.99	358.24	399.94	245.40	154.53	2.588	
19,400.00	13,092.00	18,867.44	12,758.00	102.14	102.56	-33.371	-6,973.98	359.21	399.94	243.48	156.46	2.556	
19,500.00	13,092.00	18,967.44	12,758.00	103.55	103.97	-33.371	-7,073.98	360.17	399.94	241.55	158.39	2.525	
19,600.00	13,092.00	19,067.44	12,758.00	104.97	105.38	-33.371	-7,173.98	361.13	399.94	239.61	160.33	2.495	
19,700.00	13,092.00	19,167.44	12,758.00	106.39	106.79	-33.371	-7,273.97	362.09	399.94	237.68	162.26	2.465	
19,800.00	13,092.00	19,267.44	12,758.00	107.81	108.19	-33.370	-7,373.97	363.06	399.94	235.74	164.20	2.436	
19,900.00	13,092.00	19,367.44	12,758.00	109.23	109.60	-33.370	-7,473.96	364.02	399.94	233.79	166.14	2.407	
20,000.00	13,092.00	19,467.44	12,758.00	110.65	111.01	-33.370	-7,573.96	364.98	399.94	231.85	168.09	2.379	
20,100.00	13,092.00	19,567.44	12,758.00	112.07	112.43	-33.370	-7,673.95	365.94	399.94	229.90	170.04	2.352	
20,200.00	13,092.00	19,667.44	12,758.00	113.49	113.84	-33.370	-7,773.95	366.91	399.94	227.95	171.99	2.325	
20,300.00	13,092.00	19,767.44	12,758.00	114.91	115.25	-33.370	-7,873.94	367.87	399.94	226.00	173.94	2.299	
20,400.00	13,092.00	19,867.44	12,758.00	116.34	116.66	-33.370	-7,973.94	368.83	399.94	224.04	175.89	2.274	
20,500.00	13,092.00	19,967.44	12,758.00	117.76	118.08	-33.370	-8,073.93	369.79	399.94	222.09	177.85	2.249	
20,600.00	13,092.00	20,067.44	12,758.00	119.18	119.49	-33.370	-8,173.93	370.76	399.94	220.13	179.81	2.224	
20,700.00	13,092.00	20,167.44	12,758.00	120.60	120.91	-33.370	-8,273.92	371.72	399.94	218.16	181.77	2.200	
20,800.00	13,092.00	20,267.44	12,758.00	122.03	122.32	-33.370	-8,373.92	372.68	399.94	216.20	183.73	2.177	
20,900.00	13,092.00	20,367.44	12,758.00	123.45	123.74	-33.370	-8,473.92	373.64	399.94	214.24	185.70	2.154	
21,000.00	13,092.00	20,467.44	12,758.00	124.87	125.15	-33.370	-8,573.91	374.60	399.94	212.27	187.67	2.131	
21,100.00	13,092.00	20,567.44	12,758.00	126.30	126.57	-33.370	-8,673.91	375.57	399.94	210.30	189.64	2.109	
21,200.00	13,092.00	20,667.44	12,758.00	127.72	127.99	-33.370	-8,773.90	376.53	399.94	208.33	191.61	2.087	
21,300.00	13,092.00	20,767.44	12,758.00	129.15	129.41	-33.370	-8,873.90	377.49	399.93	206.36	193.58	2.066	
21,400.00	13,092.00	20,867.44	12,758.00	130.57	130.82	-33.370	-8,973.89	378.45	399.93	204.38	195.55	2.045	
21,500.00	13,092.00	20,967.44	12,758.00	132.00	132.24	-33.370	-9,073.89	379.42	399.93	202.41	197.53	2.025	
21,600.00	13,092.00	21,067.44	12,758.00	133.42	133.66	-33.370	-9,173.88	380.38	399.93	200.43	199.51	2.005	
21,700.00	13,092.00	21,167.44	12,758.00	134.85	135.08	-33.370	-9,273.88	381.34	399.93	198.45	201.49	1.985	
21,800.00	13,092.00	21,267.44	12,758.00	136.27	136.50	-33.370	-9,373.87	382.30	399.93	196.47	203.47	1.966	
21,900.00	13,092.00	21,367.44	12,758.00	137.70	137.92	-33.370	-9,473.87	383.27	399.93	194.49	205.45	1.947	
22,000.00	13,092.00	21,467.44	12,758.00	139.12	139.34	-33.370	-9,573.86	384.23	399.93	192.50	207.43	1.928	
22,100.00	13,092.00	21,567.44	12,758.00	140.55	140.76	-33.370	-9,673.86	385.19	399.93	190.52	209.41	1.910	
22,200.00	13,092.00	21,667.44	12,758.00	141.98	142.18	-33.370	-9,773.85	386.15	399.93	188.53	211.40	1.892	
22,300.00	13,092.00	21,767.44	12,758.00	143.40	143.60	-33.370	-9,873.85	387.12	399.93	186.55	213.39	1.874	
22,400.00	13,092.00	21,867.44	12,758.00	144.83	145.03	-33.370	-9,973.85	388.08	399.93	184.56	215.38	1.857	
22,500.00	13,092.00	21,967.44	12,758.00	146.26	146.45	-33.370	-10,073.84	389.04	399.93	182.57	217.37	1.840	
22,600.00	13,092.00	22,067.44	12,758.00	147.69	147.87	-33.370	-10,173.84	390.00	399.93	180.58	219.36	1.823	
22,656.30	13,092.00	22,123.74	12,758.00	148.49	148.67	-33.370	-10,230.13	390.55	399.93	179.46	220.48	1.814 SF	
22,700.00	13,092.00	22,125.24	12,758.00	149.11	148.69	-33.370	-10,231.64	390.56	402.15	185.39	216.76	1.855	
22,728.24	13,092.00	22,125.24	12,758.00	149.52	148.69	-33.370	-10,231.64	390.56	406.09	192.88	213.21	1.905	

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





## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com (NAD83) - El Campeon Fed Com 512H - OH - Plan 1 08-31-22													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+HRGM													<b>Offset Well Error:</b> 1.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum</b>	<b>Separation</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Separation (usft)</b>	<b>Factor</b>	
0.00	0.00	0.00	0.00	1.00	1.00	-90.468	-10.05	-1,230.19	1,230.23				
100.00	100.00	100.00	100.00	1.08	1.08	-90.468	-10.05	-1,230.19	1,230.23	1,228.06	2.17	567.372	
200.00	200.00	200.00	200.00	1.60	1.60	-90.468	-10.05	-1,230.19	1,230.23	1,227.03	3.20	384.782	
300.00	300.00	300.00	300.00	2.01	2.01	-90.468	-10.05	-1,230.19	1,230.23	1,226.21	4.02	306.089	
400.00	400.00	400.00	400.00	2.35	2.35	-90.468	-10.05	-1,230.19	1,230.23	1,225.53	4.71	261.463	
500.00	500.00	500.00	500.00	2.65	2.65	-90.468	-10.05	-1,230.19	1,230.23	1,224.92	5.31	231.761	
600.00	600.00	600.00	600.00	2.93	2.93	-90.468	-10.05	-1,230.19	1,230.23	1,224.38	5.85	210.155	
700.00	700.00	700.00	700.00	3.18	3.18	-90.468	-10.05	-1,230.19	1,230.23	1,223.87	6.36	193.520	
800.00	800.00	800.00	800.00	3.41	3.41	-90.468	-10.05	-1,230.19	1,230.23	1,223.40	6.83	180.195	
900.00	900.00	900.00	900.00	3.64	3.64	-90.468	-10.05	-1,230.19	1,230.23	1,222.96	7.27	169.206	
1,000.00	1,000.00	1,000.00	1,000.00	3.85	3.85	-90.468	-10.05	-1,230.19	1,230.23	1,222.54	7.69	159.937	
1,100.00	1,100.00	1,100.00	1,100.00	4.05	4.05	-90.468	-10.05	-1,230.19	1,230.23	1,222.14	8.09	151.980	
1,200.00	1,200.00	1,200.00	1,200.00	4.24	4.24	-90.468	-10.05	-1,230.19	1,230.23	1,221.75	8.48	145.050	
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	-90.468	-10.05	-1,230.19	1,230.23	1,221.38	8.85	138.941	
1,400.00	1,400.00	1,400.00	1,400.00	4.61	4.61	-90.468	-10.05	-1,230.19	1,230.23	1,221.02	9.21	133.503	
1,500.00	1,500.00	1,500.00	1,500.00	4.78	4.78	-90.468	-10.05	-1,230.19	1,230.23	1,220.67	9.56	128.620 CC, ES	
1,600.00	1,599.98	1,582.03	1,582.02	4.98	4.94	99.544	-11.07	-1,230.78	1,231.25	1,221.45	9.80	125.579	
1,620.70	1,620.67	1,600.00	1,599.98	4.99	4.99	99.544	-11.56	-1,231.07	1,231.72	1,221.88	9.83	125.262	
1,700.00	1,699.89	1,669.63	1,669.54	5.07	5.07	99.554	-14.24	-1,232.63	1,234.05	1,224.12	9.94	124.174	
1,800.00	1,799.81	1,769.58	1,769.38	5.23	5.21	99.554	-18.42	-1,235.06	1,237.22	1,227.04	10.17	121.646	
1,900.00	1,899.72	1,869.53	1,869.21	5.41	5.38	99.554	-22.59	-1,237.48	1,240.38	1,229.94	10.44	118.820	
2,000.00	1,999.63	1,969.48	1,969.04	5.60	5.57	99.554	-26.76	-1,239.91	1,243.54	1,232.82	10.71	116.064	
2,100.00	2,099.54	2,069.43	2,068.88	5.80	5.78	99.554	-30.93	-1,242.34	1,246.70	1,235.71	10.99	113.418	
2,200.00	2,199.45	2,169.38	2,168.71	6.02	6.00	99.554	-35.11	-1,244.77	1,249.86	1,238.59	11.27	110.879	
2,300.00	2,299.36	2,269.33	2,268.54	6.24	6.23	99.553	-39.28	-1,247.19	1,253.02	1,241.47	11.55	108.443	
2,400.00	2,399.27	2,369.28	2,368.38	6.47	6.46	99.553	-43.45	-1,249.62	1,256.18	1,244.34	11.84	106.104	
2,500.00	2,499.18	2,469.23	2,468.21	6.72	6.71	99.553	-47.62	-1,252.05	1,259.34	1,247.22	12.13	103.859	
2,600.00	2,599.10	2,569.18	2,568.04	6.96	6.96	99.553	-51.80	-1,254.48	1,262.50	1,250.09	12.41	101.703	
2,700.00	2,699.01	2,669.13	2,667.88	7.22	7.23	99.553	-55.97	-1,256.90	1,265.66	1,252.96	12.70	99.633	
2,800.00	2,798.92	2,769.08	2,767.71	7.48	7.49	99.553	-60.14	-1,259.33	1,268.83	1,255.83	12.99	97.644	
2,900.00	2,898.83	2,869.03	2,867.54	7.74	7.77	99.553	-64.31	-1,261.76	1,271.99	1,258.70	13.29	95.732	
3,000.00	2,998.74	2,968.98	2,967.38	8.01	8.04	99.553	-68.49	-1,264.19	1,275.15	1,261.57	13.58	93.894	
3,100.00	3,098.65	3,068.93	3,067.21	8.28	8.32	99.552	-72.66	-1,266.62	1,278.31	1,264.43	13.88	92.126	
3,200.00	3,198.56	3,168.88	3,167.04	8.56	8.61	99.552	-76.83	-1,269.04	1,281.47	1,267.30	14.17	90.425	
3,300.00	3,298.47	3,268.83	3,266.88	8.84	8.90	99.552	-81.00	-1,271.47	1,284.63	1,270.16	14.47	88.787	
3,400.00	3,398.39	3,368.78	3,366.71	9.13	9.19	99.552	-85.18	-1,273.90	1,287.79	1,273.02	14.77	87.210	
3,500.00	3,498.30	3,468.73	3,466.54	9.41	9.49	99.552	-89.35	-1,276.33	1,290.95	1,275.89	15.07	85.690	
3,600.00	3,598.21	3,568.68	3,566.38	9.70	9.79	99.552	-93.52	-1,278.75	1,294.11	1,278.75	15.37	84.224	
3,700.00	3,698.12	3,668.63	3,666.21	9.99	10.09	99.552	-97.69	-1,281.18	1,297.27	1,281.61	15.67	82.811	
3,800.00	3,798.03	3,768.58	3,766.04	10.29	10.39	99.551	-101.87	-1,283.61	1,300.44	1,284.47	15.97	81.448	
3,900.00	3,897.94	3,868.53	3,865.88	10.58	10.70	99.551	-106.04	-1,286.04	1,303.60	1,287.33	16.27	80.131	
4,000.00	3,997.85	3,968.48	3,965.71	10.88	11.00	99.551	-110.21	-1,288.46	1,306.76	1,290.19	16.57	78.860	
4,100.00	4,097.76	4,068.43	4,065.54	11.18	11.31	99.551	-114.38	-1,290.89	1,309.92	1,293.05	16.87	77.632	
4,200.00	4,197.68	4,168.38	4,165.38	11.48	11.62	99.551	-118.56	-1,293.32	1,313.08	1,295.90	17.18	76.444	
4,300.00	4,297.59	4,268.33	4,265.21	11.78	11.93	99.551	-122.73	-1,295.75	1,316.24	1,298.76	17.48	75.296	
4,400.00	4,397.50	4,368.28	4,365.04	12.08	12.25	99.551	-126.90	-1,298.17	1,319.40	1,301.62	17.79	74.185	
4,500.00	4,497.41	4,468.23	4,464.88	12.39	12.56	99.551	-131.07	-1,300.60	1,322.56	1,304.47	18.09	73.110	
4,600.00	4,597.32	4,568.18	4,564.71	12.69	12.88	99.550	-135.25	-1,303.03	1,325.72	1,307.33	18.40	72.068	
4,700.00	4,697.23	4,668.13	4,664.54	13.00	13.19	99.550	-139.42	-1,305.46	1,328.88	1,310.18	18.70	71.059	
4,800.00	4,797.14	4,768.08	4,764.38	13.31	13.51	99.550	-143.59	-1,307.88	1,332.05	1,313.04	19.01	70.081	
4,900.00	4,897.05	4,868.03	4,864.21	13.62	13.83	99.550	-147.76	-1,310.31	1,335.21	1,315.89	19.31	69.133	
5,000.00	4,996.97	4,967.98	4,964.05	13.92	14.15	99.550	-151.94	-1,312.74	1,338.37	1,318.75	19.62	68.214	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com (NAD83) - El Campeon Fed Com 512H - OH - Plan 1 08-31-22												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 0-MWD+HRGM												<b>Offset Well Error:</b>	1.00 usft
<b>Rule Assigned:</b>												<b>Warning</b>	
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	5,096.88	5,067.93	5,063.88	14.23	14.47	99.550	-156.11	-1,315.17	1,341.53	1,321.60	19.93	67.321	
5,200.00	5,196.79	5,167.88	5,163.71	14.55	14.79	99.550	-160.28	-1,317.59	1,344.69	1,324.45	20.23	66.455	
5,300.00	5,296.70	5,267.83	5,263.55	14.86	15.11	99.550	-164.45	-1,320.02	1,347.85	1,327.31	20.54	65.614	
5,400.00	5,396.61	5,367.78	5,363.38	15.17	15.43	99.550	-168.63	-1,322.45	1,351.01	1,330.16	20.85	64.797	
5,500.00	5,496.52	5,467.73	5,463.21	15.48	15.76	99.549	-172.80	-1,324.88	1,354.17	1,333.01	21.16	64.003	
5,600.00	5,596.43	5,567.68	5,563.05	15.79	16.08	99.549	-176.97	-1,327.30	1,357.33	1,335.87	21.47	63.230	
5,700.00	5,696.34	5,667.63	5,662.88	16.11	16.40	99.549	-181.14	-1,329.73	1,360.49	1,338.72	21.78	62.480	
5,800.00	5,796.26	5,767.58	5,762.71	16.42	16.73	99.549	-185.32	-1,332.16	1,363.66	1,341.57	22.08	61.749	
5,900.00	5,896.17	5,867.53	5,862.55	16.74	17.05	99.549	-189.49	-1,334.59	1,366.82	1,344.42	22.39	61.038	
6,000.00	5,996.08	5,967.48	5,962.38	17.05	17.38	99.549	-193.66	-1,337.01	1,369.98	1,347.28	22.70	60.346	
6,100.00	6,095.99	6,067.43	6,062.21	17.37	17.71	99.549	-197.83	-1,339.44	1,373.14	1,350.13	23.01	59.672	
6,200.00	6,195.90	6,167.38	6,162.05	17.68	18.03	99.549	-202.01	-1,341.87	1,376.30	1,352.98	23.32	59.016	
6,300.00	6,295.81	6,267.33	6,261.88	18.00	18.36	99.548	-206.18	-1,344.30	1,379.46	1,355.83	23.63	58.376	
6,400.00	6,395.72	6,367.29	6,361.71	18.32	18.69	99.548	-210.35	-1,346.72	1,382.62	1,358.68	23.94	57.752	
6,500.00	6,495.63	6,467.24	6,461.55	18.63	19.01	99.548	-214.52	-1,349.15	1,385.78	1,361.53	24.25	57.144	
6,600.00	6,595.55	6,567.19	6,561.38	18.95	19.34	99.548	-218.70	-1,351.58	1,388.94	1,364.38	24.56	56.551	
6,700.00	6,695.46	6,667.14	6,661.21	19.27	19.67	99.548	-222.87	-1,354.01	1,392.10	1,367.23	24.87	55.973	
6,800.00	6,795.37	6,767.09	6,761.05	19.59	20.00	99.548	-227.04	-1,356.43	1,395.27	1,370.08	25.18	55.408	
6,900.00	6,895.28	6,867.04	6,860.88	19.91	20.33	99.548	-231.21	-1,358.86	1,398.43	1,372.93	25.49	54.857	
7,000.00	6,995.19	6,966.99	6,960.71	20.23	20.66	99.548	-235.39	-1,361.29	1,401.59	1,375.78	25.80	54.319	
7,100.00	7,095.10	7,066.94	7,060.55	20.54	20.99	99.548	-239.56	-1,363.72	1,404.75	1,378.63	26.11	53.794	
7,200.00	7,195.01	7,166.89	7,160.38	20.86	21.32	99.547	-243.73	-1,366.14	1,407.91	1,381.49	26.42	53.281	
7,300.00	7,294.92	7,266.84	7,260.21	21.18	21.65	99.547	-247.90	-1,368.57	1,411.07	1,384.34	26.74	52.779	
7,400.00	7,394.84	7,366.79	7,360.05	21.50	21.98	99.547	-252.08	-1,371.00	1,414.23	1,387.18	27.05	52.289	
7,500.00	7,494.75	7,466.74	7,459.88	21.82	22.31	99.547	-256.25	-1,373.43	1,417.39	1,390.03	27.36	51.809	
7,600.00	7,594.66	7,566.69	7,559.71	22.14	22.64	99.547	-260.42	-1,375.85	1,420.55	1,392.88	27.67	51.341	
7,700.00	7,694.57	7,666.64	7,659.55	22.46	22.97	99.547	-264.59	-1,378.28	1,423.71	1,395.73	27.98	50.882	
7,800.00	7,794.48	7,766.59	7,759.38	22.78	23.30	99.547	-268.77	-1,380.71	1,426.88	1,398.58	28.29	50.434	
7,900.00	7,894.39	7,866.54	7,859.21	23.10	23.63	99.547	-272.94	-1,383.14	1,430.04	1,401.43	28.60	49.995	
8,000.00	7,994.30	7,966.49	7,959.05	23.42	23.96	99.547	-277.11	-1,385.56	1,433.20	1,404.28	28.92	49.565	
8,100.00	8,094.21	8,066.44	8,058.88	23.75	24.29	99.547	-281.28	-1,387.99	1,436.36	1,407.13	29.23	49.145	
8,200.00	8,194.13	8,166.39	8,158.71	24.07	24.63	99.546	-285.46	-1,390.42	1,439.52	1,409.98	29.54	48.733	
8,300.00	8,294.04	8,266.34	8,258.55	24.39	24.96	99.546	-289.63	-1,392.85	1,442.68	1,412.83	29.85	48.329	
8,400.00	8,393.95	8,366.29	8,358.38	24.71	25.29	99.546	-293.80	-1,395.28	1,445.84	1,415.68	30.16	47.934	
8,500.00	8,493.86	8,466.24	8,458.21	25.03	25.62	99.546	-297.98	-1,397.70	1,449.00	1,418.53	30.47	47.547	
8,600.00	8,593.77	8,566.19	8,558.05	25.35	25.95	99.546	-302.15	-1,400.13	1,452.16	1,421.38	30.79	47.168	
8,700.00	8,693.68	8,666.14	8,657.88	25.67	26.29	99.546	-306.32	-1,402.56	1,455.32	1,424.23	31.10	46.796	
8,800.00	8,793.59	8,766.09	8,757.71	26.00	26.62	99.546	-310.49	-1,404.99	1,458.49	1,427.07	31.41	46.432	
8,900.00	8,893.50	8,866.04	8,857.55	26.32	26.95	99.546	-314.67	-1,407.41	1,461.65	1,429.92	31.72	46.074	
9,000.00	8,993.42	8,965.99	8,957.38	26.64	27.28	99.546	-318.84	-1,409.84	1,464.81	1,432.77	32.04	45.723	
9,100.00	9,093.33	9,065.94	9,057.21	26.96	27.62	99.546	-323.01	-1,412.27	1,467.97	1,435.62	32.35	45.380	
9,200.00	9,193.24	9,165.89	9,157.05	27.29	27.95	99.545	-327.18	-1,414.70	1,471.13	1,438.47	32.66	45.042	
9,300.00	9,293.15	9,265.84	9,256.88	27.61	28.28	99.545	-331.36	-1,417.12	1,474.29	1,441.32	32.97	44.711	
9,400.00	9,393.06	9,365.79	9,356.71	27.93	28.62	99.545	-335.53	-1,419.55	1,477.45	1,444.17	33.29	44.386	
9,500.00	9,492.97	9,465.74	9,456.55	28.25	28.95	99.545	-339.70	-1,421.98	1,480.61	1,447.01	33.60	44.067	
9,600.00	9,592.88	9,565.69	9,556.38	28.58	29.28	99.545	-343.87	-1,424.41	1,483.77	1,449.86	33.91	43.754	
9,700.00	9,692.79	9,665.64	9,656.21	28.90	29.62	99.545	-348.05	-1,426.83	1,486.93	1,452.71	34.22	43.447	
9,800.00	9,792.71	9,765.59	9,756.05	29.22	29.95	99.545	-352.22	-1,429.26	1,490.10	1,455.56	34.54	43.145	
9,900.00	9,892.62	9,865.54	9,855.88	29.55	30.28	99.545	-356.39	-1,431.69	1,493.26	1,458.41	34.85	42.848	
10,000.00	9,992.53	9,965.49	9,955.71	29.87	30.62	99.545	-360.56	-1,434.12	1,496.42	1,461.25	35.16	42.557	
10,100.00	10,092.44	10,065.44	10,055.55	30.19	30.95	99.545	-364.74	-1,436.54	1,499.58	1,464.10	35.48	42.271	
10,200.00	10,192.35	10,165.39	10,155.38	30.52	31.29	99.544	-368.91	-1,438.97	1,502.74	1,466.95	35.79	41.989	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com (NAD83) - El Campeon Fed Com 512H - OH - Plan 1 08-31-22												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 0-MWD+HRGM												<b>Offset Well Error:</b>	1.00 usft
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
10,300.00	10,292.26	10,265.34	10,255.21	30.84	31.62	99.544	-373.08	-1,441.40	1,505.90	1,469.80	36.10	41.713	
10,400.00	10,392.17	10,365.29	10,355.05	31.16	31.95	99.544	-377.25	-1,443.83	1,509.06	1,472.65	36.41	41.441	
10,500.00	10,492.08	10,465.24	10,454.88	31.49	32.29	99.544	-381.43	-1,446.25	1,512.22	1,475.49	36.73	41.174	
10,600.00	10,592.00	10,565.19	10,554.71	31.81	32.62	99.544	-385.60	-1,448.68	1,515.38	1,478.34	37.04	40.911	
10,700.00	10,691.91	10,665.14	10,654.55	32.13	32.96	99.544	-389.77	-1,451.11	1,518.54	1,481.19	37.35	40.653	
10,800.00	10,791.82	10,765.09	10,754.38	32.46	33.29	99.544	-393.94	-1,453.54	1,521.71	1,484.04	37.67	40.399	
10,900.00	10,891.73	10,865.04	10,854.22	32.78	33.63	99.544	-398.12	-1,455.96	1,524.87	1,486.89	37.98	40.149	
11,000.00	10,991.64	10,964.99	10,954.05	33.11	33.96	99.544	-402.29	-1,458.39	1,528.03	1,489.73	38.29	39.903	
11,100.00	11,091.55	11,064.94	11,053.88	33.43	34.29	99.544	-406.46	-1,460.82	1,531.19	1,492.58	38.61	39.661	
11,200.00	11,191.46	11,164.89	11,153.72	33.75	34.63	99.544	-410.63	-1,463.25	1,534.35	1,495.43	38.92	39.423	
11,300.00	11,291.37	11,264.84	11,253.55	34.08	34.96	99.543	-414.81	-1,465.67	1,537.51	1,498.28	39.23	39.189	
11,400.00	11,391.29	11,364.79	11,353.38	34.40	35.30	99.543	-418.98	-1,468.10	1,540.67	1,501.12	39.55	38.958	
11,500.00	11,491.20	11,464.74	11,453.22	34.73	35.63	99.543	-423.15	-1,470.53	1,543.83	1,503.97	39.86	38.731	
11,600.00	11,591.11	11,564.69	11,553.05	35.05	35.97	99.543	-427.32	-1,472.96	1,546.99	1,506.82	40.17	38.508	
11,700.00	11,691.02	11,664.64	11,652.88	35.38	36.30	99.543	-431.50	-1,475.38	1,550.15	1,509.67	40.49	38.288	
11,800.00	11,790.93	11,764.59	11,752.72	35.70	36.64	99.543	-435.67	-1,477.81	1,553.32	1,512.51	40.80	38.071	
11,900.00	11,890.84	11,864.54	11,852.55	36.03	36.97	99.543	-439.84	-1,480.24	1,556.48	1,515.36	41.12	37.852	
11,907.54	11,898.38	11,872.07	11,860.08	36.05	37.00	99.543	-440.16	-1,480.42	1,556.71	1,515.57	41.14	37.835	
12,000.00	11,990.80	11,965.90	11,973.81	36.33	37.37	99.549	-444.01	-1,482.66	1,559.01	1,517.56	41.45	37.611	
12,028.24	12,019.04	12,024.99	12,012.90	36.36	37.44	-90.471	-444.50	-1,482.95	1,559.24	1,517.74	41.50	37.576	
12,100.00	12,090.80	12,102.89	12,090.80	36.36	37.47	-90.473	-444.58	-1,482.99	1,559.27	1,517.78	41.49	37.578	
12,200.00	12,190.80	12,202.89	12,190.80	36.36	37.48	-90.473	-444.58	-1,482.99	1,559.27	1,517.77	41.50	37.570	
12,300.00	12,290.80	12,302.89	12,290.80	36.36	37.48	-90.473	-444.58	-1,482.99	1,559.27	1,517.75	41.52	37.557	
12,400.00	12,390.80	12,402.89	12,390.80	36.37	37.49	-90.473	-444.58	-1,482.99	1,559.27	1,517.74	41.53	37.543	
12,500.00	12,490.80	12,502.89	12,490.80	36.37	37.49	-90.473	-444.58	-1,482.99	1,559.27	1,517.72	41.55	37.530	
12,528.24	12,519.04	12,531.14	12,519.04	36.37	37.49	-90.473	-444.58	-1,482.99	1,559.27	1,517.73	41.54	37.538	
12,550.00	12,540.79	12,552.92	12,540.83	36.40	37.50	90.092	-444.60	-1,482.99	1,559.27	1,517.73	41.54	37.537	
12,600.00	12,590.61	12,603.24	12,591.06	36.63	37.66	90.143	-447.32	-1,482.97	1,559.27	1,517.67	41.60	37.478	
12,650.00	12,639.89	12,653.68	12,640.97	36.95	37.92	90.193	-454.45	-1,482.89	1,559.27	1,517.56	41.71	37.383	
12,700.00	12,688.24	12,704.24	12,690.19	37.29	38.20	90.241	-465.98	-1,482.78	1,559.28	1,517.42	41.86	37.250	
12,750.00	12,735.30	12,754.92	12,738.30	37.62	38.49	90.288	-481.84	-1,482.62	1,559.27	1,517.22	42.05	37.079	
12,800.00	12,780.72	12,805.70	12,784.92	37.96	38.78	90.332	-501.93	-1,482.42	1,559.27	1,516.98	42.29	36.870	
12,850.00	12,824.15	12,856.60	12,829.67	38.29	39.07	90.374	-526.13	-1,482.17	1,559.27	1,516.69	42.58	36.620	
12,900.00	12,865.26	12,907.59	12,872.18	38.60	39.35	90.413	-554.26	-1,481.89	1,559.27	1,516.35	42.92	36.330	
12,950.00	12,903.73	12,958.67	12,912.09	38.90	39.61	90.449	-586.12	-1,481.57	1,559.26	1,515.95	43.31	36.000	
13,000.00	12,939.27	13,009.84	12,949.07	39.18	39.87	90.482	-621.46	-1,481.22	1,559.25	1,515.49	43.76	35.630	
13,050.00	12,971.62	13,061.08	12,982.78	39.43	40.10	90.510	-660.02	-1,480.83	1,559.24	1,514.97	44.27	35.222	
13,100.00	13,000.52	13,112.38	13,012.96	39.65	40.32	90.535	-701.49	-1,480.41	1,559.23	1,514.40	44.83	34.778	
13,150.00	13,025.76	13,163.74	13,039.33	39.85	40.51	90.556	-745.54	-1,479.97	1,559.22	1,513.76	45.46	34.302	
13,200.00	13,047.14	13,215.14	13,061.67	40.02	40.67	90.572	-791.81	-1,479.51	1,559.20	1,513.07	46.13	33.798	
13,250.00	13,064.50	13,266.57	13,079.78	40.15	40.81	90.583	-839.92	-1,479.02	1,559.19	1,512.32	46.86	33.272	
13,300.00	13,077.71	13,318.02	13,093.51	40.26	40.93	90.591	-889.49	-1,478.53	1,559.17	1,511.53	47.64	32.729	
13,350.00	13,086.67	13,369.48	13,102.75	40.33	41.02	90.593	-940.09	-1,478.02	1,559.15	1,510.69	48.46	32.175	
13,400.00	13,091.30	13,420.93	13,107.40	40.38	41.08	90.591	-991.31	-1,477.50	1,559.13	1,509.81	49.31	31.617	
13,428.24	13,092.00	13,449.91	13,108.00	40.39	41.11	90.588	-1,020.28	-1,477.21	1,559.11	1,509.31	49.81	31.304	
13,500.00	13,092.00	13,521.67	13,108.00	40.40	41.17	90.588	-1,092.03	-1,476.49	1,559.08	1,508.00	51.08	30.523	
13,600.00	13,092.00	13,621.67	13,108.00	40.43	41.27	90.588	-1,192.03	-1,475.49	1,559.04	1,506.10	52.94	29.450	
13,700.00	13,092.00	13,721.67	13,108.00	40.46	41.40	90.588	-1,292.02	-1,474.48	1,559.00	1,504.11	54.89	28.403	
13,800.00	13,092.00	13,821.67	13,108.00	40.50	41.54	90.588	-1,392.02	-1,473.48	1,558.96	1,502.04	56.92	27.391	
13,900.00	13,092.00	13,921.67	13,108.00	40.53	41.71	90.588	-1,492.01	-1,472.47	1,558.92	1,499.90	59.01	26.417	
14,000.00	13,092.00	14,021.67	13,108.00	40.58	41.92	90.588	-1,592.01	-1,471.47	1,558.88	1,497.70	61.17	25.484	
14,100.00	13,092.00	14,121.67	13,108.00	40.63	42.16	90.588	-1,692.00	-1,470.47	1,558.83	1,495.45	63.38	24.594	

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	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						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		
14,200.00	13,092.00	14,221.67	13,108.00	40.69	42.44	90.588	-1,792.00	-1,469.46	1,558.79	1,493.14	65.65	23.745			
14,300.00	13,092.00	14,321.67	13,108.00	40.76	42.76	90.588	-1,891.99	-1,468.46	1,558.75	1,490.79	67.96	22.937			
14,400.00	13,092.00	14,421.67	13,108.00	40.85	43.14	90.588	-1,991.99	-1,467.45	1,558.71	1,488.40	70.31	22.170			
14,500.00	13,092.00	14,521.67	13,108.00	40.95	43.58	90.588	-2,091.98	-1,466.45	1,558.67	1,485.97	72.69	21.442			
14,600.00	13,092.00	14,621.67	13,108.00	41.10	44.09	90.588	-2,191.98	-1,465.44	1,558.63	1,483.51	75.11	20.750			
14,700.00	13,092.00	14,721.67	13,108.00	41.29	44.66	90.588	-2,291.97	-1,464.44	1,558.58	1,481.02	77.56	20.094			
14,800.00	13,092.00	14,821.67	13,108.00	41.57	45.31	90.588	-2,391.97	-1,463.44	1,558.54	1,478.50	80.04	19.472			
14,900.00	13,092.00	14,921.67	13,108.00	41.99	46.03	90.588	-2,491.96	-1,462.43	1,558.50	1,475.96	82.54	18.881			
15,000.00	13,092.00	15,021.67	13,108.00	42.60	46.82	90.588	-2,591.96	-1,461.43	1,558.46	1,473.39	85.07	18.320			
15,100.00	13,092.00	15,121.67	13,108.00	43.42	47.68	90.588	-2,691.95	-1,460.42	1,558.42	1,470.80	87.62	17.786			
15,200.00	13,092.00	15,221.67	13,108.00	44.43	48.60	90.588	-2,791.95	-1,459.42	1,558.38	1,468.19	90.18	17.280			
15,300.00	13,092.00	15,321.67	13,108.00	45.56	49.58	90.588	-2,891.94	-1,458.41	1,558.33	1,465.57	92.77	16.798			
15,400.00	13,092.00	15,421.67	13,108.00	46.76	50.60	90.588	-2,991.94	-1,457.41	1,558.29	1,462.92	95.37	16.340			
15,500.00	13,092.00	15,521.67	13,108.00	48.01	51.67	90.588	-3,091.93	-1,456.41	1,558.25	1,460.27	97.98	15.903			
15,600.00	13,092.00	15,621.67	13,108.00	49.30	52.78	90.588	-3,191.93	-1,455.40	1,558.21	1,457.60	100.61	15.487			
15,700.00	13,092.00	15,721.67	13,108.00	50.61	53.92	90.588	-3,291.92	-1,454.40	1,558.17	1,454.91	103.26	15.090			
15,800.00	13,092.00	15,821.67	13,108.00	51.93	55.09	90.588	-3,391.92	-1,453.39	1,558.13	1,452.22	105.91	14.712			
15,900.00	13,092.00	15,921.67	13,108.00	53.27	56.29	90.588	-3,491.91	-1,452.39	1,558.08	1,449.51	108.57	14.350			
16,000.00	13,092.00	16,021.67	13,108.00	54.61	57.50	90.588	-3,591.91	-1,451.38	1,558.04	1,446.79	111.25	14.005			
16,100.00	13,092.00	16,121.67	13,108.00	55.97	58.73	90.588	-3,691.90	-1,450.38	1,558.00	1,444.07	113.93	13.674			
16,200.00	13,092.00	16,221.67	13,108.00	57.33	59.98	90.588	-3,791.90	-1,449.38	1,557.96	1,441.33	116.63	13.358			
16,300.00	13,092.00	16,321.67	13,108.00	58.69	61.25	90.588	-3,891.89	-1,448.37	1,557.92	1,438.59	119.33	13.056			
16,400.00	13,092.00	16,421.67	13,108.00	60.06	62.53	90.588	-3,991.89	-1,447.37	1,557.88	1,435.84	122.04	12.765			
16,500.00	13,092.00	16,521.67	13,108.00	61.44	63.81	90.588	-4,091.88	-1,446.36	1,557.84	1,433.08	124.76	12.487			
16,600.00	13,092.00	16,621.67	13,108.00	62.81	65.11	90.588	-4,191.88	-1,445.36	1,557.79	1,430.31	127.48	12.220			
16,700.00	13,092.00	16,721.67	13,108.00	64.20	66.42	90.589	-4,291.87	-1,444.35	1,557.75	1,427.54	130.21	11.963			
16,800.00	13,092.00	16,821.67	13,108.00	65.58	67.73	90.589	-4,391.87	-1,443.35	1,557.71	1,424.76	132.95	11.717			
16,900.00	13,092.00	16,921.67	13,108.00	66.97	69.06	90.589	-4,491.86	-1,442.35	1,557.67	1,421.98	135.69	11.480			
17,000.00	13,092.00	17,021.67	13,108.00	68.36	70.38	90.589	-4,591.85	-1,441.34	1,557.63	1,419.19	138.43	11.252			
17,100.00	13,092.00	17,121.67	13,108.00	69.75	71.72	90.589	-4,691.85	-1,440.34	1,557.59	1,416.40	141.19	11.032			
17,200.00	13,092.00	17,221.67	13,108.00	71.14	73.06	90.589	-4,791.84	-1,439.33	1,557.54	1,413.60	143.94	10.821			
17,300.00	13,092.00	17,321.67	13,108.00	72.54	74.40	90.589	-4,891.84	-1,438.33	1,557.50	1,410.80	146.70	10.617			
17,400.00	13,092.00	17,421.67	13,108.00	73.94	75.75	90.589	-4,991.83	-1,437.32	1,557.46	1,407.99	149.47	10.420			
17,500.00	13,092.00	17,521.67	13,108.00	75.34	77.11	90.589	-5,091.83	-1,436.32	1,557.42	1,405.18	152.24	10.230			
17,600.00	13,092.00	17,621.67	13,108.00	76.74	78.47	90.589	-5,191.82	-1,435.32	1,557.38	1,402.37	155.01	10.047			
17,700.00	13,092.00	17,721.67	13,108.00	78.14	79.83	90.589	-5,291.82	-1,434.31	1,557.34	1,399.55	157.79	9.870			
17,800.00	13,092.00	17,821.67	13,108.00	79.55	81.19	90.589	-5,391.81	-1,433.31	1,557.29	1,396.73	160.56	9.699			
17,900.00	13,092.00	17,921.67	13,108.00	80.95	82.56	90.589	-5,491.81	-1,432.30	1,557.25	1,393.91	163.35	9.533			
18,000.00	13,092.00	18,021.67	13,108.00	82.36	83.93	90.589	-5,591.80	-1,431.30	1,557.21	1,391.08	166.13	9.373			
18,100.00	13,092.00	18,121.67	13,108.00	83.76	85.30	90.589	-5,691.80	-1,430.29	1,557.17	1,388.25	168.92	9.218			
18,200.00	13,092.00	18,221.67	13,108.00	85.17	86.68	90.589	-5,791.79	-1,429.29	1,557.13	1,385.41	171.71	9.068			
18,300.00	13,092.00	18,321.67	13,108.00	86.58	88.06	90.589	-5,891.79	-1,428.29	1,557.09	1,382.58	174.51	8.923			
18,400.00	13,092.00	18,421.67	13,108.00	87.99	89.44	90.589	-5,991.78	-1,427.28	1,557.04	1,379.74	177.30	8.782			
18,500.00	13,092.00	18,521.67	13,108.00	89.40	90.82	90.589	-6,091.78	-1,426.28	1,557.00	1,376.90	180.10	8.645			
18,600.00	13,092.00	18,621.67	13,108.00	90.81	92.20	90.589	-6,191.77	-1,425.27	1,556.96	1,374.06	182.90	8.512			
18,700.00	13,092.00	18,721.67	13,108.00	92.23	93.59	90.589	-6,291.77	-1,424.27	1,556.92	1,371.21	185.71	8.384			
18,800.00	13,092.00	18,821.67	13,108.00	93.64	94.98	90.589	-6,391.76	-1,423.26	1,556.88	1,368.37	188.51	8.259			
18,900.00	13,092.00	18,921.67	13,108.00	95.06	96.37	90.589	-6,491.76	-1,422.26	1,556.84	1,365.52	191.32	8.137			
19,000.00	13,092.00	19,021.67	13,108.00	96.47	97.76	90.589	-6,591.75	-1,421.26	1,556.80	1,362.67	194.13	8.019			
19,100.00	13,092.00	19,121.67	13,108.00	97.89	99.15	90.589	-6,691.75	-1,420.25	1,556.75	1,359.81	196.94	7.905			
19,200.00	13,092.00	19,221.67	13,108.00	99.30	100.54	90.589	-6,791.74	-1,419.25	1,556.71	1,356.96	199.75	7.793			
19,300.00	13,092.00	19,321.67	13,108.00	100.72	101.94	90.589	-6,891.74	-1,418.24	1,556.67	1,354.10	202.57	7.685			

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



## Anticollision Report



<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design:</b> El Campeon Fed Com (NAD83) - El Campeon Fed Com 512H - OH - Plan 1 08-31-22												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 0-MWD+HRGM												<b>Offset Well Error:</b>	1.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
19,400.00	13,092.00	19,421.67	13,108.00	102.14	103.33	90.589	-6,991.73	-1,417.24	1,556.63	1,351.25	205.38	7.579	
19,500.00	13,092.00	19,521.67	13,108.00	103.55	104.73	90.589	-7,091.73	-1,416.23	1,556.59	1,348.39	208.20	7.476	
19,600.00	13,092.00	19,621.67	13,108.00	104.97	106.13	90.589	-7,191.72	-1,415.23	1,556.55	1,345.53	211.02	7.376	
19,700.00	13,092.00	19,721.67	13,108.00	106.39	107.53	90.589	-7,291.72	-1,414.23	1,556.50	1,342.66	213.84	7.279	
19,800.00	13,092.00	19,821.67	13,108.00	107.81	108.93	90.589	-7,391.71	-1,413.22	1,556.46	1,339.80	216.66	7.184	
19,900.00	13,092.00	19,921.67	13,108.00	109.23	110.33	90.589	-7,491.71	-1,412.22	1,556.42	1,336.94	219.49	7.091	
20,000.00	13,092.00	20,021.67	13,108.00	110.65	111.74	90.589	-7,591.70	-1,411.21	1,556.38	1,334.07	222.31	7.001	
20,100.00	13,092.00	20,121.67	13,108.00	112.07	113.14	90.589	-7,691.70	-1,410.21	1,556.34	1,331.20	225.14	6.913	
20,200.00	13,092.00	20,221.67	13,108.00	113.49	114.55	90.589	-7,791.69	-1,409.20	1,556.30	1,328.33	227.96	6.827	
20,300.00	13,092.00	20,321.67	13,108.00	114.91	115.95	90.589	-7,891.69	-1,408.20	1,556.25	1,325.46	230.79	6.743	
20,400.00	13,092.00	20,421.67	13,108.00	116.34	117.36	90.589	-7,991.68	-1,407.20	1,556.21	1,322.59	233.62	6.661	
20,500.00	13,092.00	20,521.67	13,108.00	117.76	118.76	90.589	-8,091.68	-1,406.19	1,556.17	1,319.72	236.45	6.581	
20,600.00	13,092.00	20,621.67	13,108.00	119.18	120.17	90.589	-8,191.67	-1,405.19	1,556.13	1,316.85	239.28	6.503	
20,700.00	13,092.00	20,721.67	13,108.00	120.60	121.58	90.589	-8,291.67	-1,404.18	1,556.09	1,313.98	242.11	6.427	
20,800.00	13,092.00	20,821.67	13,108.00	122.03	122.99	90.589	-8,391.66	-1,403.18	1,556.05	1,311.10	244.94	6.353	
20,900.00	13,092.00	20,921.67	13,108.00	123.45	124.40	90.589	-8,491.66	-1,402.17	1,556.00	1,308.23	247.78	6.280	
21,000.00	13,092.00	21,021.67	13,108.00	124.87	125.81	90.589	-8,591.65	-1,401.17	1,555.96	1,305.35	250.61	6.209	
21,100.00	13,092.00	21,121.67	13,108.00	126.30	127.22	90.589	-8,691.65	-1,400.17	1,555.92	1,302.47	253.45	6.139	
21,200.00	13,092.00	21,221.67	13,108.00	127.72	128.63	90.589	-8,791.64	-1,399.16	1,555.88	1,299.59	256.29	6.071	
21,300.00	13,092.00	21,321.67	13,108.00	129.15	130.05	90.589	-8,891.64	-1,398.16	1,555.84	1,296.72	259.12	6.004	
21,400.00	13,092.00	21,421.67	13,108.00	130.57	131.46	90.589	-8,991.63	-1,397.15	1,555.80	1,293.84	261.96	5.939	
21,500.00	13,092.00	21,521.67	13,108.00	132.00	132.87	90.589	-9,091.63	-1,396.15	1,555.76	1,290.96	264.80	5.875	
21,600.00	13,092.00	21,621.67	13,108.00	133.42	134.29	90.589	-9,191.62	-1,395.14	1,555.71	1,288.08	267.64	5.813	
21,700.00	13,092.00	21,721.67	13,108.00	134.85	135.70	90.589	-9,291.62	-1,394.14	1,555.67	1,285.19	270.48	5.752	
21,800.00	13,092.00	21,821.67	13,108.00	136.27	137.12	90.589	-9,391.61	-1,393.14	1,555.63	1,282.31	273.32	5.692	
21,900.00	13,092.00	21,921.67	13,108.00	137.70	138.53	90.589	-9,491.61	-1,392.13	1,555.59	1,279.43	276.16	5.633	
22,000.00	13,092.00	22,021.67	13,108.00	139.12	139.95	90.589	-9,591.60	-1,391.13	1,555.55	1,276.54	279.00	5.575	
22,100.00	13,092.00	22,121.67	13,108.00	140.55	141.36	90.589	-9,691.60	-1,390.12	1,555.51	1,273.66	281.85	5.519	
22,200.00	13,092.00	22,221.67	13,108.00	141.98	142.78	90.589	-9,791.59	-1,389.12	1,555.46	1,270.78	284.69	5.464	
22,300.00	13,092.00	22,321.67	13,108.00	143.40	144.20	90.589	-9,891.59	-1,388.11	1,555.42	1,267.89	287.53	5.410	
22,400.00	13,092.00	22,421.67	13,108.00	144.83	145.61	90.589	-9,991.58	-1,387.11	1,555.38	1,265.00	290.38	5.356	
22,500.00	13,092.00	22,521.67	13,108.00	146.26	147.03	90.589	-10,091.58	-1,386.11	1,555.34	1,262.12	293.22	5.304	
22,600.00	13,092.00	22,621.67	13,108.00	147.69	148.45	90.589	-10,191.57	-1,385.10	1,555.30	1,259.23	296.07	5.253	
22,700.00	13,092.00	22,721.67	13,108.00	149.11	149.87	90.589	-10,291.57	-1,384.10	1,555.26	1,256.34	298.91	5.203	
22,728.24	13,092.00	22,749.91	13,108.00	149.52	150.27	90.589	-10,319.81	-1,383.81	1,555.24	1,255.53	299.72	5.189 SF	

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



## Anticollision Report

# TITUS

OIL GAS LLC

<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

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

Offset Depths are relative to Offset Datum

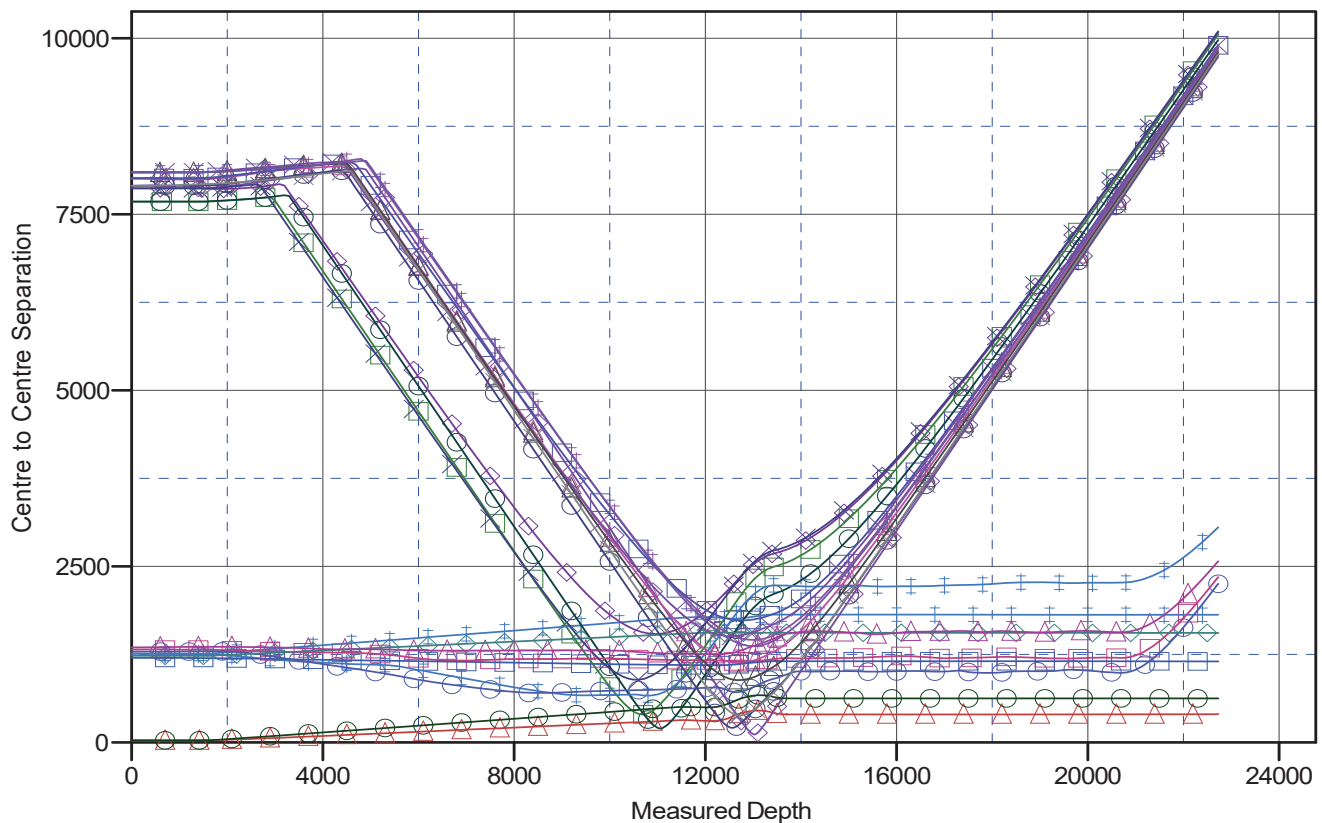
Central Meridian is 104° 19' 60.000000 W

Coordinates are relative to: El Campeon Fed Com 513H

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

Grid Convergence at Surface is: 0.502°

## Ladder Plot



### LEGEND

El Campeon Red Com 433H, OH, Plan 1 08-31-22 V0	514H, OH / 6824, Surveys (H&P 474) V0	Cattelman Red Com 434H, OH / 67733, Surveys (H&P 474) V0
Cattelman Red Com 123H, OH / 69915, Surveys (H&P 616) V0	El Campeon Red Com 432H, OH, Plan 1 08-31-22 V0	Cattelman Red Com 514H, OH / 67734, Surveys (H&P 474) V0
El Campeon Red Com 412H, OH, Plan 1 08-31-22 V0	434H, OH / 6823, Surveys (H&P 474) V0	El Campeon Red Com 413H, OH, Plan 1 08-31-22 V0
Cattelman Red Com 213H, OH / 69914, Surveys (H&P 616) V0	512H, OH / 6837, Surveys (H&P 625) V0	433H, OH / 6866, Surveys (H&P 656) V0
Cattelman Red Com 204H, OH / 69917, Surveys (H&P 656) V0	El Campeon Red Com 512H, OH, Plan 1 08-31-22 V0	Cattelman Red Com 114H, OH / 69918, Surveys (H&P 656) V0
214H, OH / 6821, Surveys (H&P 474) V0	432H, OH / 6836, Surveys (H&P 625) V0	404H, OH / 6822, Surveys (H&P 474) V0
513H, OH / 6805, Surveys (H&P 656) V0	Cattelman Red Com 404H, OH / 67732, Surveys (H&P 474) V0	
422H, OH / 6835, Surveys (H&P 625) V0	403H, OH / 6804, 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

<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Reference Site:</b>	El Campeon Fed Com (NAD83)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA Compass
<b>Reference Design:</b>	Plan 1 08-31-22	<b>Offset TVD Reference:</b>	Reference Datum

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

Offset Depths are relative to Offset Datum

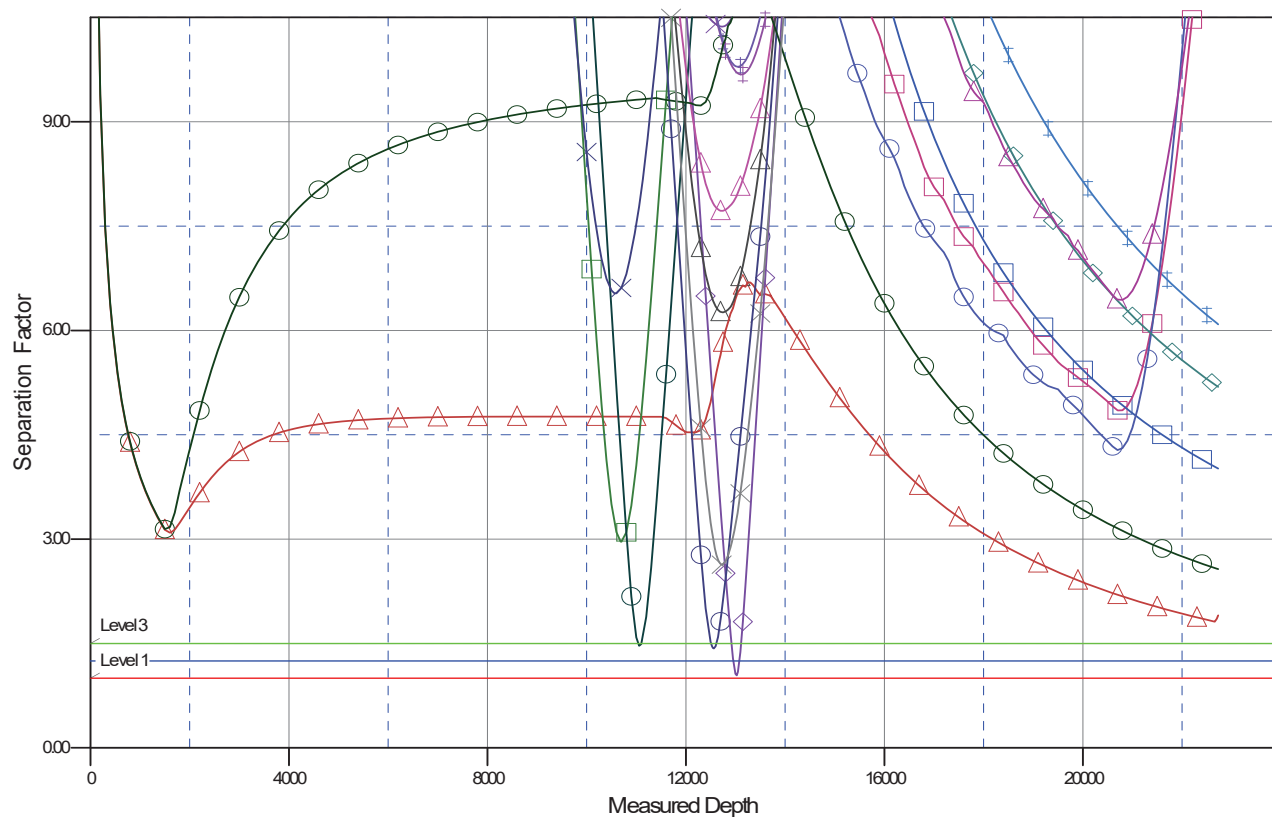
Central Meridian is 104° 19' 60.000000 W

Coordinates are relative to: El Campeon Fed Com 513H

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

Grid Convergence at Surface is: 0.502°

## Separation Factor Plot



### LEGEND

El Campeon Red Com 433H, OH, Plan 1 08-31-22 V0	514H, OH / 6824, Surveys (H&P 474) V0	Cattelman Red Com 434H, OH / 67733, Surveys (H&P 474) V0
Cattelman Red Com 123H, OH / 69915, Surveys (H&P 616) V0	El Campeon Red Com 432H, OH, Plan 1 08-31-22 V0	Cattelman Red Com 514H, OH / 67734, Surveys (H&P 474) V0
El Campeon Red Com 412H, OH, Plan 1 08-31-22 V0	434H, OH / 6823, Surveys (H&P 474) V0	El Campeon Red Com 413H, OH, Plan 1 08-31-22 V0
Cattelman Red Com 213H, OH / 69914, Surveys (H&P 616) V0	512H, OH / 6837, Surveys (H&P 625) V0	433H, OH / 68696, Surveys (H&P 656) V0
Cattelman Red Com 204H, OH / 69917, Surveys H&P 656) V0	El Campeon Red Com 512H, OH, Plan 1 08-31-22 V0	Cattelman Red Com 114H, OH / 69918, Surveys (H&P 656) V0
214H, OH / 6821, Surveys (H&P 474) V0	432H, OH / 6836, Surveys (H&P 625) V0	404H, OH / 6822, Surveys (H&P 474) V0
513H, OH / 6905, Surveys (H&P 656) V0	Cattelman Red Com 404H, OH / 67732, Surveys (H&P 474) V0	
422H, OH / 6835, Surveys (H&P 625) 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



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	373431.85	834567.18	32° 1' 23.213006 N	103° 23' 13.834485 W	

DESIGN TARGET DETAILS

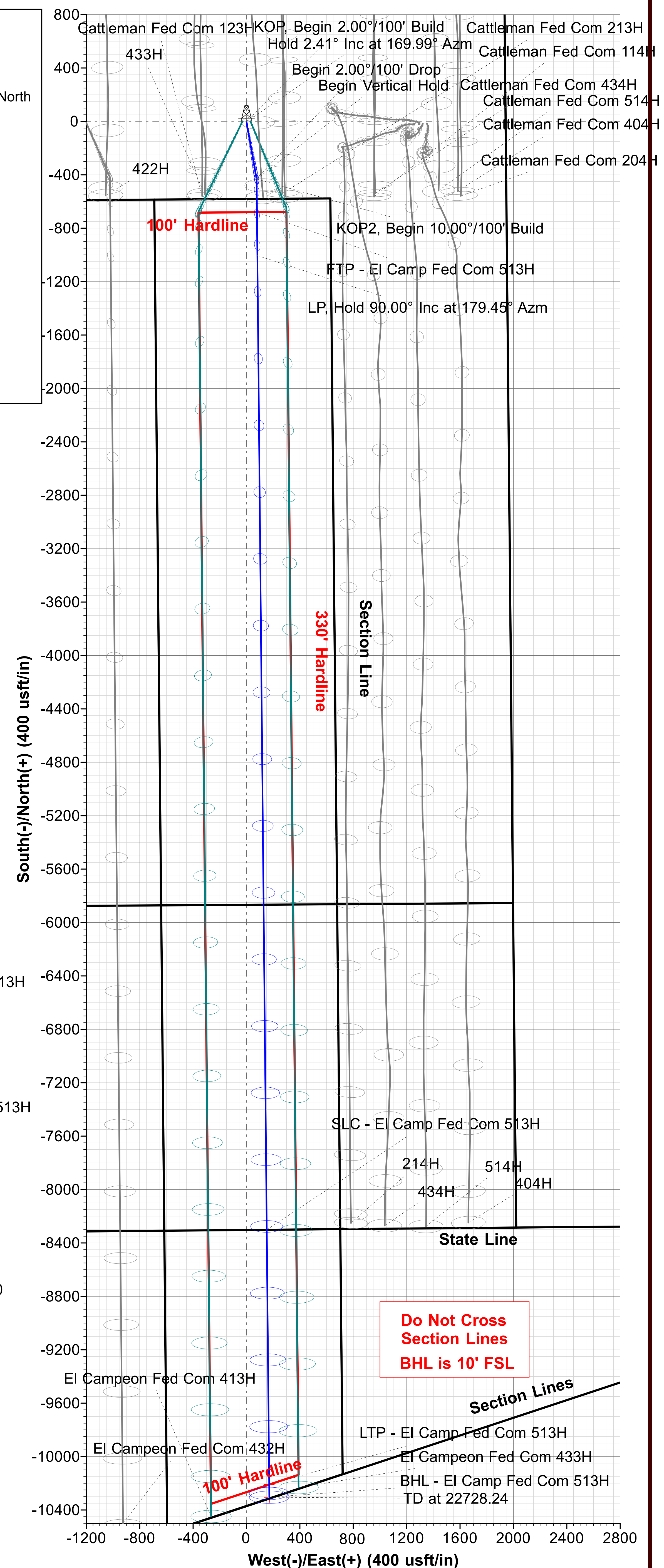
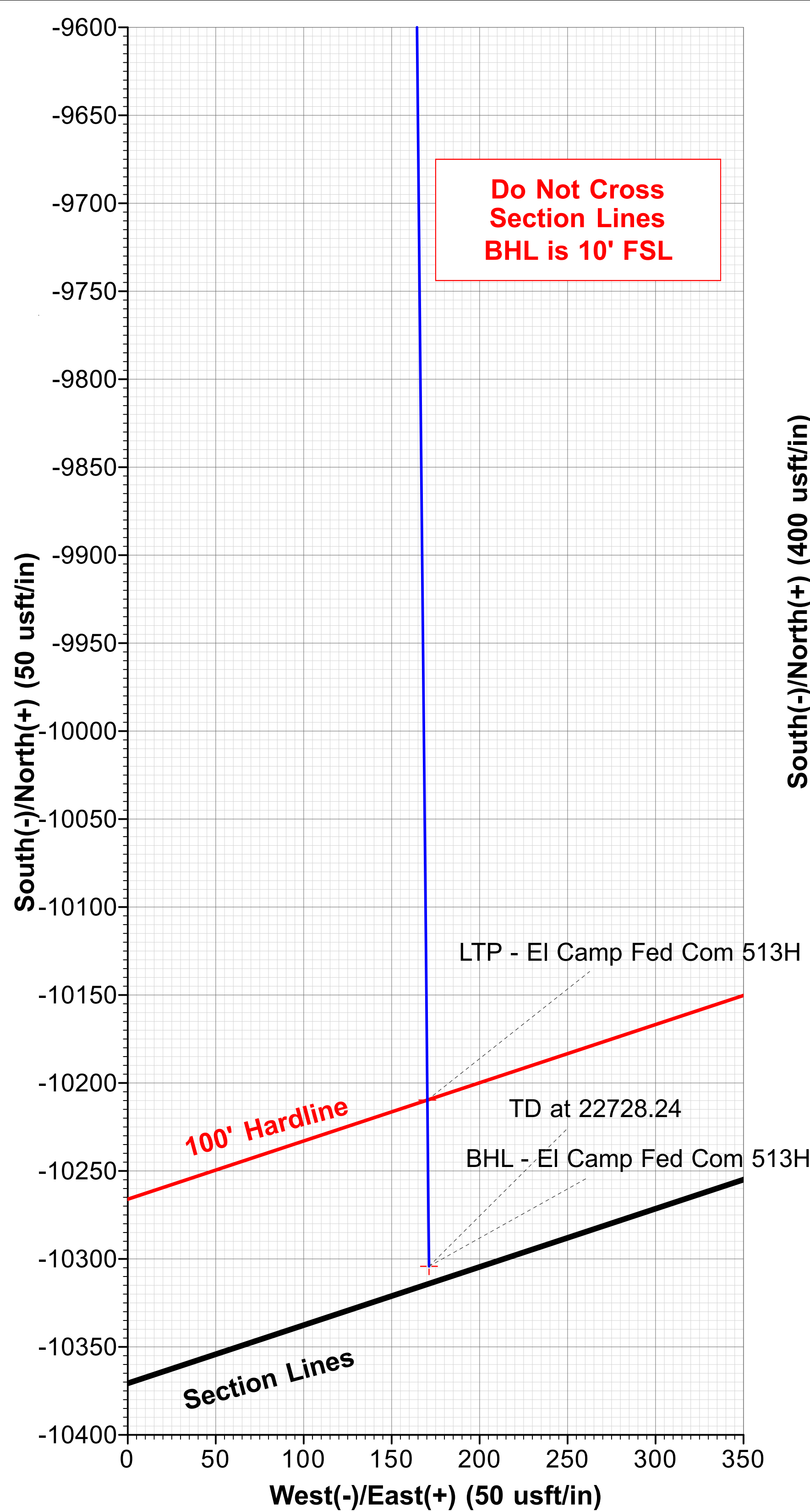
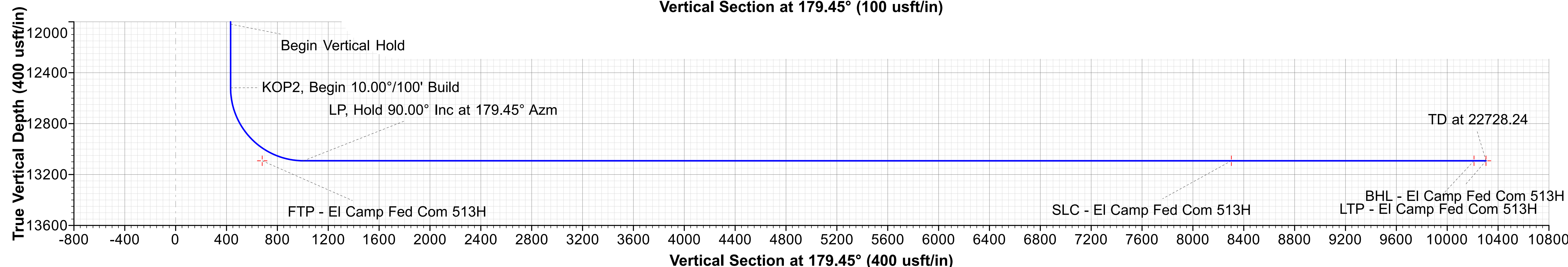
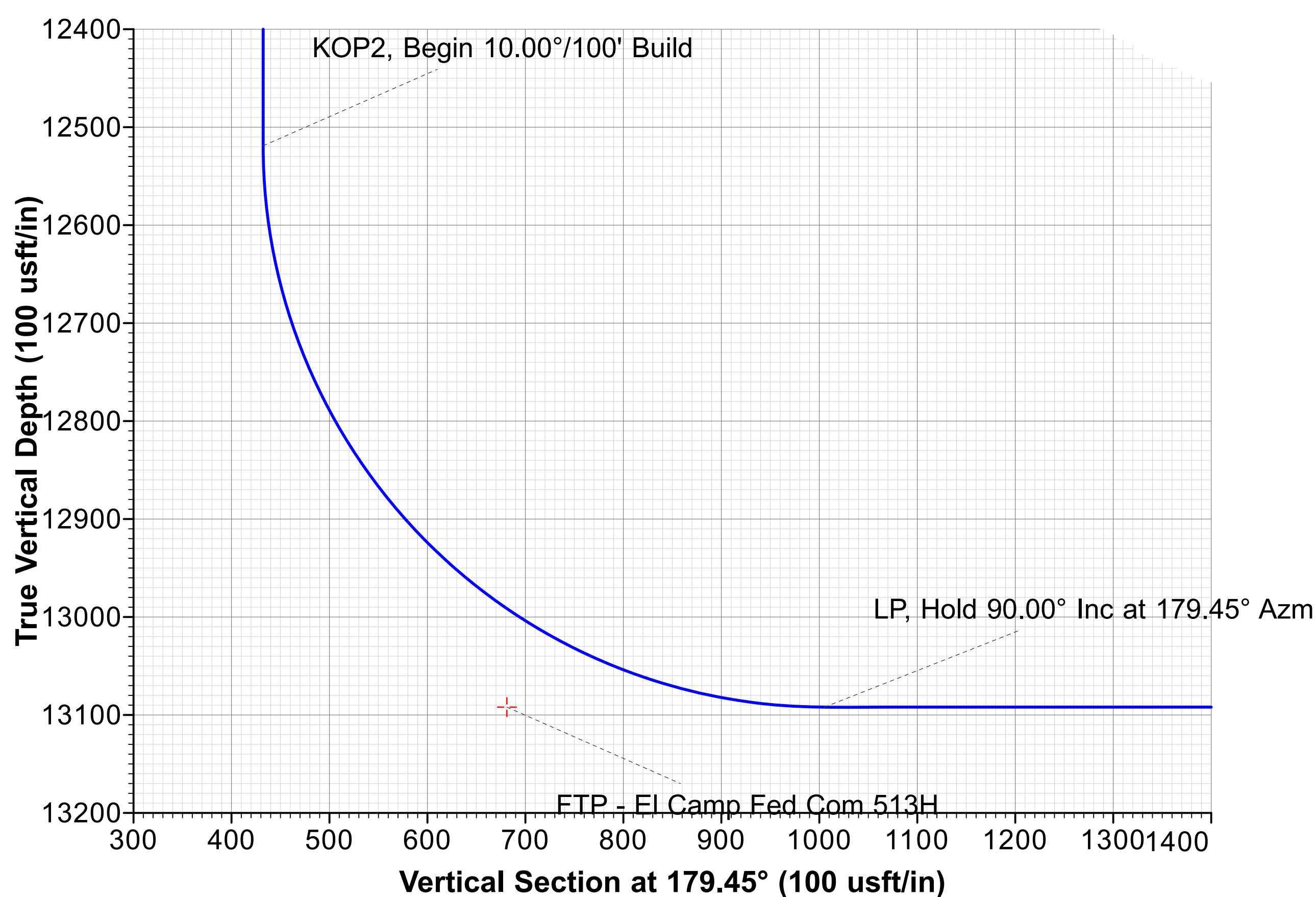
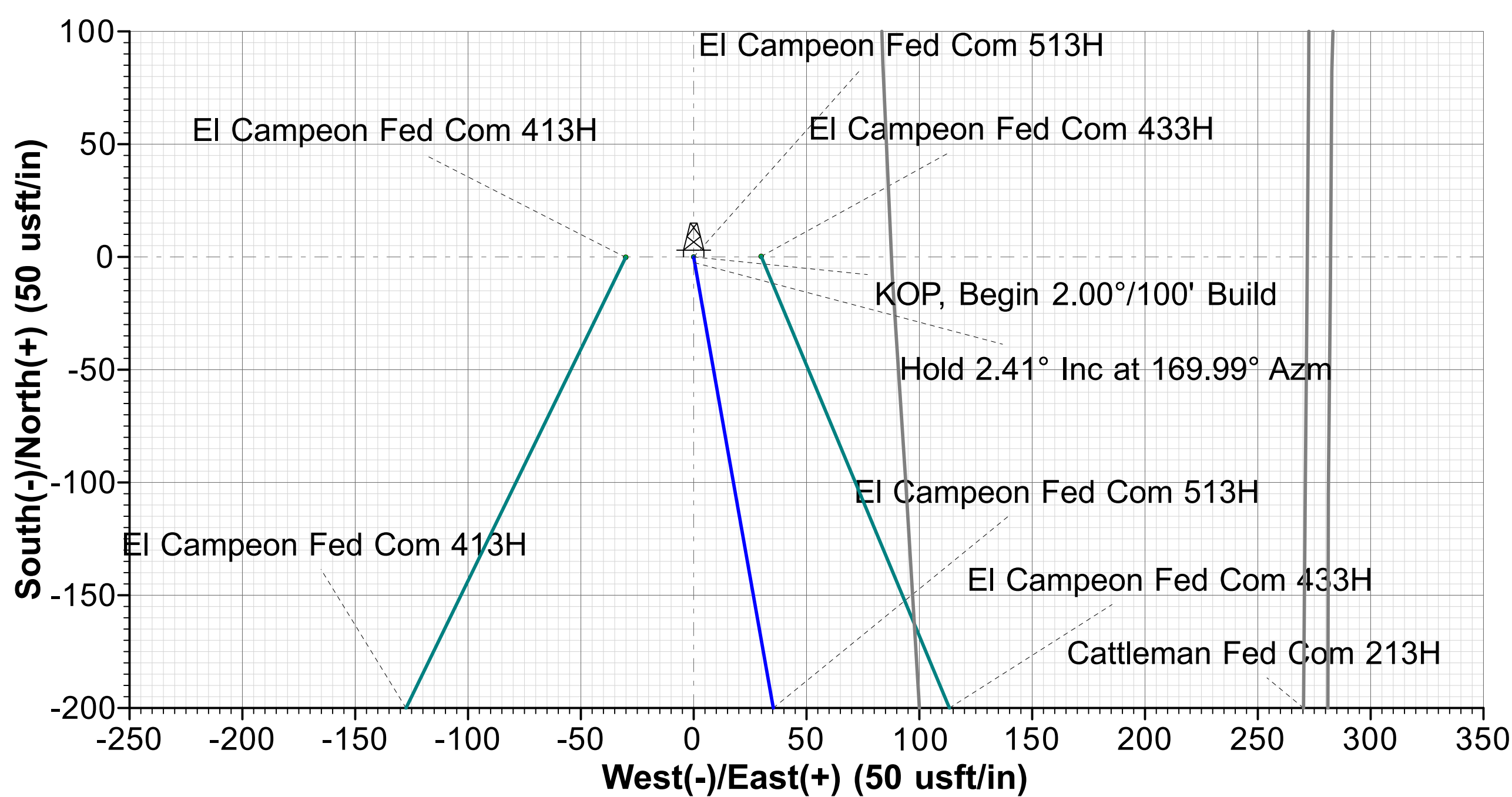
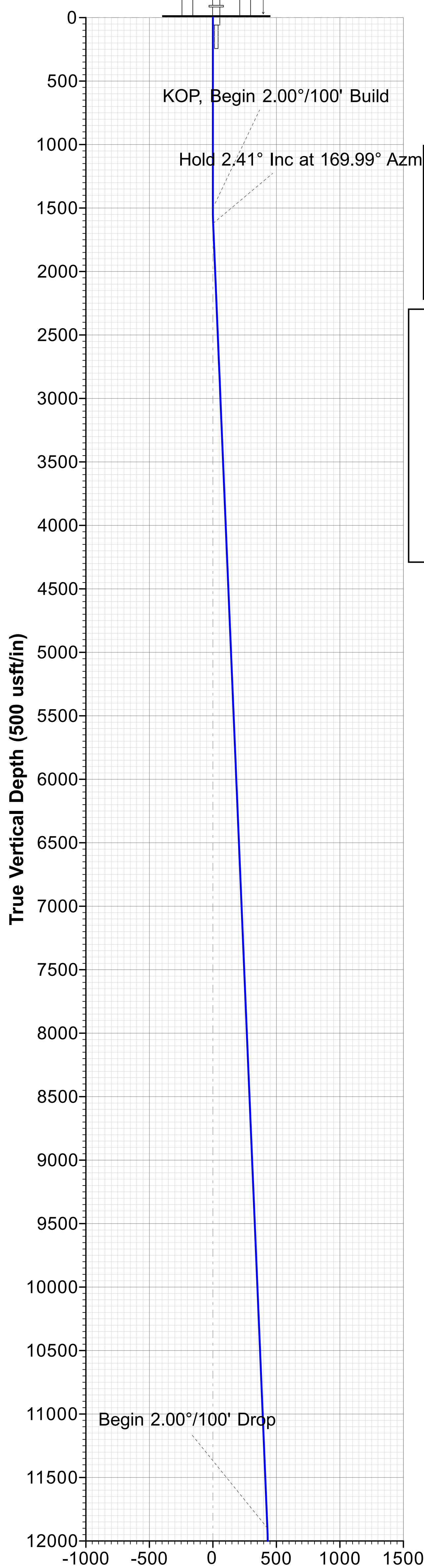
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
BHL - El Camp Fed Com 513H	13092.00	-10304.19	171.27	363127.66	834738.45	31° 59' 41.237721 N	103° 23' 12.893187 W
FTP - El Camp Fed Com 513H	13092.00	-680.47	78.62	372751.38	834645.80	32° 1' 16.472924 N	103° 23' 12.990567 W
LTP - El Camp Fed Com 513H	13092.00	-10209.70	170.34	363222.15	834737.52	31° 59' 42.172787 N	103° 23' 12.894383 W
SLC - El Camp Fed Com 513H	13092.00	-8301.34	151.97	365130.51	834719.15	32° 0' 1.057724 N	103° 23' 12.913718 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00		
2	1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.000	0.00		KOP, Begin 2.00°/100' Build
3	1620.70	2.41	169.99	1620.67	-2.50	0.44	2.00	169.986	2.51		Hold 2.41° Inc at 169.99° Azm
4	11907.54	2.41	169.99	11898.38	-429.19	75.78	0.00	0.000	429.89		Begin 2.00°/100' Drop
5	12028.24	0.00	0.00	12019.04	-431.69	76.22	2.00	180.000	432.40		Begin Vertical Hold
6	12528.24	0.00	0.00	12519.04	-431.69	76.22	0.00	0.000	432.40		KOP2, Begin 10.00°/100' Build
7	13428.24	90.00	179.45	13092.00	-1004.62	81.74	10.00	179.448	1005.36		LP, Hold 90.00° Inc at 179.45° Azm
8	22728.24	90.00	179.45	13092.00	-10304.19	171.27	0.00	0.000	10305.36		TD at 22728.24

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 513H, Grid North  
  
Latitude: 32° 1' 23.213006 N  
Longitude: 103° 23' 13.834485 W  
  
Grid East: 834567.18  
Grid North: 373431.85  
Scale Factor: 1.000

Geomagnetic Model: MVHD  
Sample Date: 30-Sep-22  
Magnetic Declination: 6.243°  
Dip Angle from Horizontal: 59.579°  
Magnetic Field Strength: 47315.80858879nT  
  
To convert a Magnetic Direction to a Grid Direction, Add 5.741°  
To convert a Magnetic Direction to a True Direction, Add 6.243° East  
To convert a True Direction to a Grid Direction, Subtract 0.502°







## **Titus Oil & Gas Production, LLC**

**Lea County, NM - (NAD83 NME)**

**El Campeon Fed Com (NAD83)**

**El Campeon Fed Com 513H**

**OH**

**Plan: Plan 1 08-31-22**

## **Standard Planning Report**

**31 August, 2022**





## Planning Report



<b>Database:</b>	USA Compass	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site:</b>	El Campeon Fed Com (NAD83)	<b>North Reference:</b>	Grid
<b>Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 1 08-31-22		

<b>Project</b>	Lea County, NM - (NAD83 NME)		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	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 513H					
Well Position	+N/-S	236.22 usft	Northing:	373,431.85 usft	Latitude:	32° 1' 23.213006 N
	+E/-W	1,257.99 usft	Easting:	834,567.18 usft	Longitude:	103° 23' 13.834485 W
Position Uncertainty		1.00 usft	Wellhead Elevation:		Ground Level:	3,174.00 usft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	MVHD	9/30/2022	6.243	59.579	47,315.80858880

<b>Design</b>	Plan 1 08-31-22			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	179.45

<b>Plan Survey Tool Program</b>	<b>Date</b>	8/31/2022		
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.00	22,728.24 Plan 1 08-31-22 (OH)	MWD+HRGM	
			OWSG MWD + HRGM	

<b>Plan Sections</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	<b>TFO (°)</b>	<b>Target</b>
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	
1,620.70	2.41	169.99	1,620.67	-2.50	0.44	2.00	2.00	0.00	169.986	
11,907.54	2.41	169.99	11,898.38	-429.19	75.78	0.00	0.00	0.00	0.000	
12,028.24	0.00	0.01	12,019.04	-431.69	76.22	2.00	-2.00	0.00	180.000	
12,528.24	0.00	0.01	12,519.04	-431.69	76.22	0.00	0.00	0.00	0.000	
13,428.24	90.00	179.45	13,092.00	-1,004.62	81.74	10.00	10.00	0.00	179.448	
22,728.24	90.00	179.45	13,092.00	-10,304.19	171.27	0.00	0.00	0.00	0.000	BHL - El Camp Fed C



## Planning Report



<b>Database:</b>	USA Compass	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site:</b>	El Campeon Fed Com (NAD83)	<b>North Reference:</b>	Grid
<b>Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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
<b>KOP, Begin 2.00°/100' Build</b>									
1,600.00	2.00	169.99	1,599.98	-1.72	0.30	1.72	2.00	2.00	0.00
1,620.70	2.41	169.99	1,620.67	-2.50	0.44	2.51	2.00	2.00	0.00
<b>Hold 2.41° Inc at 169.99° Azm</b>									
1,700.00	2.41	169.99	1,699.89	-5.79	1.02	5.80	0.00	0.00	0.00
1,800.00	2.41	169.99	1,799.81	-9.94	1.76	9.96	0.00	0.00	0.00
1,900.00	2.41	169.99	1,899.72	-14.09	2.49	14.11	0.00	0.00	0.00
2,000.00	2.41	169.99	1,999.63	-18.24	3.22	18.27	0.00	0.00	0.00
2,100.00	2.41	169.99	2,099.54	-22.38	3.95	22.42	0.00	0.00	0.00
2,200.00	2.41	169.99	2,199.45	-26.53	4.68	26.58	0.00	0.00	0.00
2,300.00	2.41	169.99	2,299.36	-30.68	5.42	30.73	0.00	0.00	0.00
2,400.00	2.41	169.99	2,399.27	-34.83	6.15	34.89	0.00	0.00	0.00
2,500.00	2.41	169.99	2,499.18	-38.98	6.88	39.04	0.00	0.00	0.00
2,600.00	2.41	169.99	2,599.10	-43.12	7.61	43.19	0.00	0.00	0.00
2,700.00	2.41	169.99	2,699.01	-47.27	8.35	47.35	0.00	0.00	0.00
2,800.00	2.41	169.99	2,798.92	-51.42	9.08	51.50	0.00	0.00	0.00
2,900.00	2.41	169.99	2,898.83	-55.57	9.81	55.66	0.00	0.00	0.00
3,000.00	2.41	169.99	2,998.74	-59.71	10.54	59.81	0.00	0.00	0.00
3,100.00	2.41	169.99	3,098.65	-63.86	11.28	63.97	0.00	0.00	0.00
3,200.00	2.41	169.99	3,198.56	-68.01	12.01	68.12	0.00	0.00	0.00
3,300.00	2.41	169.99	3,298.47	-72.16	12.74	72.28	0.00	0.00	0.00
3,400.00	2.41	169.99	3,398.39	-76.31	13.47	76.43	0.00	0.00	0.00
3,500.00	2.41	169.99	3,498.30	-80.45	14.21	80.59	0.00	0.00	0.00
3,600.00	2.41	169.99	3,598.21	-84.60	14.94	84.74	0.00	0.00	0.00
3,700.00	2.41	169.99	3,698.12	-88.75	15.67	88.90	0.00	0.00	0.00
3,800.00	2.41	169.99	3,798.03	-92.90	16.40	93.05	0.00	0.00	0.00
3,900.00	2.41	169.99	3,897.94	-97.05	17.14	97.21	0.00	0.00	0.00
4,000.00	2.41	169.99	3,997.85	-101.19	17.87	101.36	0.00	0.00	0.00
4,100.00	2.41	169.99	4,097.76	-105.34	18.60	105.51	0.00	0.00	0.00
4,200.00	2.41	169.99	4,197.68	-109.49	19.33	109.67	0.00	0.00	0.00
4,300.00	2.41	169.99	4,297.59	-113.64	20.07	113.82	0.00	0.00	0.00
4,400.00	2.41	169.99	4,397.50	-117.78	20.80	117.98	0.00	0.00	0.00
4,500.00	2.41	169.99	4,497.41	-121.93	21.53	122.13	0.00	0.00	0.00
4,600.00	2.41	169.99	4,597.32	-126.08	22.26	126.29	0.00	0.00	0.00
4,700.00	2.41	169.99	4,697.23	-130.23	22.99	130.44	0.00	0.00	0.00
4,800.00	2.41	169.99	4,797.14	-134.38	23.73	134.60	0.00	0.00	0.00
4,900.00	2.41	169.99	4,897.05	-138.52	24.46	138.75	0.00	0.00	0.00
5,000.00	2.41	169.99	4,996.97	-142.67	25.19	142.91	0.00	0.00	0.00
5,100.00	2.41	169.99	5,096.88	-146.82	25.92	147.06	0.00	0.00	0.00
5,200.00	2.41	169.99	5,196.79	-150.97	26.66	151.22	0.00	0.00	0.00
5,300.00	2.41	169.99	5,296.70	-155.12	27.39	155.37	0.00	0.00	0.00
5,400.00	2.41	169.99	5,396.61	-159.26	28.12	159.53	0.00	0.00	0.00
5,500.00	2.41	169.99	5,496.52	-163.41	28.85	163.68	0.00	0.00	0.00
5,600.00	2.41	169.99	5,596.43	-167.56	29.59	167.84	0.00	0.00	0.00
5,700.00	2.41	169.99	5,696.34	-171.71	30.32	171.99	0.00	0.00	0.00
5,800.00	2.41	169.99	5,796.26	-175.85	31.05	176.14	0.00	0.00	0.00
5,900.00	2.41	169.99	5,896.17	-180.00	31.78	180.30	0.00	0.00	0.00
6,000.00	2.41	169.99	5,996.08	-184.15	32.52	184.45	0.00	0.00	0.00
6,100.00	2.41	169.99	6,095.99	-188.30	33.25	188.61	0.00	0.00	0.00
6,200.00	2.41	169.99	6,195.90	-192.45	33.98	192.76	0.00	0.00	0.00
6,300.00	2.41	169.99	6,295.81	-196.59	34.71	196.92	0.00	0.00	0.00



## Planning Report



<b>Database:</b>	USA Compass	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site:</b>	El Campeon Fed Com (NAD83)	<b>North Reference:</b>	Grid
<b>Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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	2.41	169.99	6,395.72	-200.74	35.45	201.07	0.00	0.00	0.00
6,500.00	2.41	169.99	6,495.63	-204.89	36.18	205.23	0.00	0.00	0.00
6,600.00	2.41	169.99	6,595.55	-209.04	36.91	209.38	0.00	0.00	0.00
6,700.00	2.41	169.99	6,695.46	-213.19	37.64	213.54	0.00	0.00	0.00
6,800.00	2.41	169.99	6,795.37	-217.33	38.38	217.69	0.00	0.00	0.00
6,900.00	2.41	169.99	6,895.28	-221.48	39.11	221.85	0.00	0.00	0.00
7,000.00	2.41	169.99	6,995.19	-225.63	39.84	226.00	0.00	0.00	0.00
7,100.00	2.41	169.99	7,095.10	-229.78	40.57	230.16	0.00	0.00	0.00
7,200.00	2.41	169.99	7,195.01	-233.92	41.30	234.31	0.00	0.00	0.00
7,300.00	2.41	169.99	7,294.92	-238.07	42.04	238.46	0.00	0.00	0.00
7,400.00	2.41	169.99	7,394.84	-242.22	42.77	242.62	0.00	0.00	0.00
7,500.00	2.41	169.99	7,494.75	-246.37	43.50	246.77	0.00	0.00	0.00
7,600.00	2.41	169.99	7,594.66	-250.52	44.23	250.93	0.00	0.00	0.00
7,700.00	2.41	169.99	7,694.57	-254.66	44.97	255.08	0.00	0.00	0.00
7,800.00	2.41	169.99	7,794.48	-258.81	45.70	259.24	0.00	0.00	0.00
7,900.00	2.41	169.99	7,894.39	-262.96	46.43	263.39	0.00	0.00	0.00
8,000.00	2.41	169.99	7,994.30	-267.11	47.16	267.55	0.00	0.00	0.00
8,100.00	2.41	169.99	8,094.21	-271.26	47.90	271.70	0.00	0.00	0.00
8,200.00	2.41	169.99	8,194.13	-275.40	48.63	275.86	0.00	0.00	0.00
8,300.00	2.41	169.99	8,294.04	-279.55	49.36	280.01	0.00	0.00	0.00
8,400.00	2.41	169.99	8,393.95	-283.70	50.09	284.17	0.00	0.00	0.00
8,500.00	2.41	169.99	8,493.86	-287.85	50.83	288.32	0.00	0.00	0.00
8,600.00	2.41	169.99	8,593.77	-291.99	51.56	292.48	0.00	0.00	0.00
8,700.00	2.41	169.99	8,693.68	-296.14	52.29	296.63	0.00	0.00	0.00
8,800.00	2.41	169.99	8,793.59	-300.29	53.02	300.79	0.00	0.00	0.00
8,900.00	2.41	169.99	8,893.50	-304.44	53.76	304.94	0.00	0.00	0.00
9,000.00	2.41	169.99	8,993.42	-308.59	54.49	309.09	0.00	0.00	0.00
9,100.00	2.41	169.99	9,093.33	-312.73	55.22	313.25	0.00	0.00	0.00
9,200.00	2.41	169.99	9,193.24	-316.88	55.95	317.40	0.00	0.00	0.00
9,300.00	2.41	169.99	9,293.15	-321.03	56.69	321.56	0.00	0.00	0.00
9,400.00	2.41	169.99	9,393.06	-325.18	57.42	325.71	0.00	0.00	0.00
9,500.00	2.41	169.99	9,492.97	-329.32	58.15	329.87	0.00	0.00	0.00
9,600.00	2.41	169.99	9,592.88	-333.47	58.88	334.02	0.00	0.00	0.00
9,700.00	2.41	169.99	9,692.79	-337.62	59.61	338.18	0.00	0.00	0.00
9,800.00	2.41	169.99	9,792.71	-341.77	60.35	342.33	0.00	0.00	0.00
9,900.00	2.41	169.99	9,892.62	-345.92	61.08	346.49	0.00	0.00	0.00
10,000.00	2.41	169.99	9,992.53	-350.06	61.81	350.64	0.00	0.00	0.00
10,100.00	2.41	169.99	10,092.44	-354.21	62.54	354.80	0.00	0.00	0.00
10,200.00	2.41	169.99	10,192.35	-358.36	63.28	358.95	0.00	0.00	0.00
10,300.00	2.41	169.99	10,292.26	-362.51	64.01	363.11	0.00	0.00	0.00
10,400.00	2.41	169.99	10,392.17	-366.66	64.74	367.26	0.00	0.00	0.00
10,500.00	2.41	169.99	10,492.08	-370.80	65.47	371.41	0.00	0.00	0.00
10,600.00	2.41	169.99	10,592.00	-374.95	66.21	375.57	0.00	0.00	0.00
10,700.00	2.41	169.99	10,691.91	-379.10	66.94	379.72	0.00	0.00	0.00
10,800.00	2.41	169.99	10,791.82	-383.25	67.67	383.88	0.00	0.00	0.00
10,900.00	2.41	169.99	10,891.73	-387.39	68.40	388.03	0.00	0.00	0.00
11,000.00	2.41	169.99	10,991.64	-391.54	69.14	392.19	0.00	0.00	0.00
11,100.00	2.41	169.99	11,091.55	-395.69	69.87	396.34	0.00	0.00	0.00
11,200.00	2.41	169.99	11,191.46	-399.84	70.60	400.50	0.00	0.00	0.00
11,300.00	2.41	169.99	11,291.37	-403.99	71.33	404.65	0.00	0.00	0.00
11,400.00	2.41	169.99	11,391.29	-408.13	72.07	408.81	0.00	0.00	0.00
11,500.00	2.41	169.99	11,491.20	-412.28	72.80	412.96	0.00	0.00	0.00
11,600.00	2.41	169.99	11,591.11	-416.43	73.53	417.12	0.00	0.00	0.00
11,700.00	2.41	169.99	11,691.02	-420.58	74.26	421.27	0.00	0.00	0.00





## Planning Report



<b>Database:</b>	USA Compass	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site:</b>	El Campeon Fed Com (NAD83)	<b>North Reference:</b>	Grid
<b>Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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)
11,800.00	2.41	169.99	11,790.93	-424.73	75.00	425.43	0.00	0.00	0.00
11,900.00	2.41	169.99	11,890.84	-428.87	75.73	429.58	0.00	0.00	0.00
11,907.54	2.41	169.99	11,898.38	-429.19	75.78	429.89	0.00	0.00	0.00
<b>Begin 2.00°/100' Drop</b>									
12,000.00	0.56	169.99	11,990.80	-431.55	76.20	432.26	2.00	-2.00	0.00
12,028.24	0.00	0.01	12,019.04	-431.69	76.22	432.40	2.00	-2.00	0.00
<b>Begin Vertical Hold</b>									
12,528.24	0.00	0.00	12,519.04	-431.69	76.22	432.40	0.00	0.00	0.00
<b>KOP2, Begin 10.00°/100' Build</b>									
12,600.00	7.18	179.45	12,590.61	-436.18	76.27	436.89	10.00	10.00	0.00
12,700.00	17.18	179.45	12,688.24	-457.24	76.47	457.95	10.00	10.00	0.00
12,800.00	27.18	179.45	12,780.72	-494.94	76.83	495.65	10.00	10.00	0.00
12,900.00	37.18	179.45	12,865.26	-548.12	77.35	548.83	10.00	10.00	0.00
13,000.00	47.18	179.45	12,939.27	-615.17	77.99	615.89	10.00	10.00	0.00
13,100.00	57.18	179.45	13,000.52	-694.06	78.75	694.78	10.00	10.00	0.00
13,200.00	67.18	179.45	13,047.14	-782.38	79.60	783.11	10.00	10.00	0.00
13,300.00	77.18	179.45	13,077.71	-877.45	80.52	878.18	10.00	10.00	0.00
13,400.00	87.18	179.45	13,091.30	-976.39	81.47	977.13	10.00	10.00	0.00
13,428.24	90.00	179.45	13,092.00	-1,004.62	81.74	1,005.36	10.00	10.00	0.00
<b>LP, Hold 90.00° Inc at 179.45° Azm</b>									
13,500.00	90.00	179.45	13,092.00	-1,076.38	82.43	1,077.12	0.00	0.00	0.00
13,600.00	90.00	179.45	13,092.00	-1,176.37	83.39	1,177.12	0.00	0.00	0.00
13,700.00	90.00	179.45	13,092.00	-1,276.37	84.36	1,277.12	0.00	0.00	0.00
13,800.00	90.00	179.45	13,092.00	-1,376.36	85.32	1,377.12	0.00	0.00	0.00
13,900.00	90.00	179.45	13,092.00	-1,476.36	86.28	1,477.12	0.00	0.00	0.00
14,000.00	90.00	179.45	13,092.00	-1,576.35	87.24	1,577.12	0.00	0.00	0.00
14,100.00	90.00	179.45	13,092.00	-1,676.35	88.21	1,677.12	0.00	0.00	0.00
14,200.00	90.00	179.45	13,092.00	-1,776.34	89.17	1,777.12	0.00	0.00	0.00
14,300.00	90.00	179.45	13,092.00	-1,876.34	90.13	1,877.12	0.00	0.00	0.00
14,400.00	90.00	179.45	13,092.00	-1,976.33	91.10	1,977.12	0.00	0.00	0.00
14,500.00	90.00	179.45	13,092.00	-2,076.33	92.06	2,077.12	0.00	0.00	0.00
14,600.00	90.00	179.45	13,092.00	-2,176.32	93.02	2,177.12	0.00	0.00	0.00
14,700.00	90.00	179.45	13,092.00	-2,276.32	93.98	2,277.12	0.00	0.00	0.00
14,800.00	90.00	179.45	13,092.00	-2,376.31	94.95	2,377.12	0.00	0.00	0.00
14,900.00	90.00	179.45	13,092.00	-2,476.31	95.91	2,477.12	0.00	0.00	0.00
15,000.00	90.00	179.45	13,092.00	-2,576.31	96.87	2,577.12	0.00	0.00	0.00
15,100.00	90.00	179.45	13,092.00	-2,676.30	97.83	2,677.12	0.00	0.00	0.00
15,200.00	90.00	179.45	13,092.00	-2,776.30	98.80	2,777.12	0.00	0.00	0.00
15,300.00	90.00	179.45	13,092.00	-2,876.29	99.76	2,877.12	0.00	0.00	0.00
15,400.00	90.00	179.45	13,092.00	-2,976.29	100.72	2,977.12	0.00	0.00	0.00
15,500.00	90.00	179.45	13,092.00	-3,076.28	101.69	3,077.12	0.00	0.00	0.00
15,600.00	90.00	179.45	13,092.00	-3,176.28	102.65	3,177.12	0.00	0.00	0.00
15,700.00	90.00	179.45	13,092.00	-3,276.27	103.61	3,277.12	0.00	0.00	0.00
15,800.00	90.00	179.45	13,092.00	-3,376.27	104.57	3,377.12	0.00	0.00	0.00
15,900.00	90.00	179.45	13,092.00	-3,476.26	105.54	3,477.12	0.00	0.00	0.00
16,000.00	90.00	179.45	13,092.00	-3,576.26	106.50	3,577.12	0.00	0.00	0.00
16,100.00	90.00	179.45	13,092.00	-3,676.25	107.46	3,677.12	0.00	0.00	0.00
16,200.00	90.00	179.45	13,092.00	-3,776.25	108.42	3,777.12	0.00	0.00	0.00
16,300.00	90.00	179.45	13,092.00	-3,876.25	109.39	3,877.12	0.00	0.00	0.00
16,400.00	90.00	179.45	13,092.00	-3,976.24	110.35	3,977.12	0.00	0.00	0.00
16,500.00	90.00	179.45	13,092.00	-4,076.24	111.31	4,077.12	0.00	0.00	0.00
16,600.00	90.00	179.45	13,092.00	-4,176.23	112.27	4,177.12	0.00	0.00	0.00
16,700.00	90.00	179.45	13,092.00	-4,276.23	113.24	4,277.12	0.00	0.00	0.00
16,800.00	90.00	179.45	13,092.00	-4,376.22	114.20	4,377.12	0.00	0.00	0.00



## Planning Report



<b>Database:</b>	USA Compass	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site:</b>	El Campeon Fed Com (NAD83)	<b>North Reference:</b>	Grid
<b>Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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)
16,900.00	90.00	179.45	13,092.00	-4,476.22	115.16	4,477.12	0.00	0.00	0.00
17,000.00	90.00	179.45	13,092.00	-4,576.21	116.13	4,577.12	0.00	0.00	0.00
17,100.00	90.00	179.45	13,092.00	-4,676.21	117.09	4,677.12	0.00	0.00	0.00
17,200.00	90.00	179.45	13,092.00	-4,776.20	118.05	4,777.12	0.00	0.00	0.00
17,300.00	90.00	179.45	13,092.00	-4,876.20	119.01	4,877.12	0.00	0.00	0.00
17,400.00	90.00	179.45	13,092.00	-4,976.19	119.98	4,977.12	0.00	0.00	0.00
17,500.00	90.00	179.45	13,092.00	-5,076.19	120.94	5,077.12	0.00	0.00	0.00
17,600.00	90.00	179.45	13,092.00	-5,176.19	121.90	5,177.12	0.00	0.00	0.00
17,700.00	90.00	179.45	13,092.00	-5,276.18	122.86	5,277.12	0.00	0.00	0.00
17,800.00	90.00	179.45	13,092.00	-5,376.18	123.83	5,377.12	0.00	0.00	0.00
17,900.00	90.00	179.45	13,092.00	-5,476.17	124.79	5,477.12	0.00	0.00	0.00
18,000.00	90.00	179.45	13,092.00	-5,576.17	125.75	5,577.12	0.00	0.00	0.00
18,100.00	90.00	179.45	13,092.00	-5,676.16	126.71	5,677.12	0.00	0.00	0.00
18,200.00	90.00	179.45	13,092.00	-5,776.16	127.68	5,777.12	0.00	0.00	0.00
18,300.00	90.00	179.45	13,092.00	-5,876.15	128.64	5,877.12	0.00	0.00	0.00
18,400.00	90.00	179.45	13,092.00	-5,976.15	129.60	5,977.12	0.00	0.00	0.00
18,500.00	90.00	179.45	13,092.00	-6,076.14	130.57	6,077.12	0.00	0.00	0.00
18,600.00	90.00	179.45	13,092.00	-6,176.14	131.53	6,177.12	0.00	0.00	0.00
18,700.00	90.00	179.45	13,092.00	-6,276.13	132.49	6,277.12	0.00	0.00	0.00
18,800.00	90.00	179.45	13,092.00	-6,376.13	133.45	6,377.12	0.00	0.00	0.00
18,900.00	90.00	179.45	13,092.00	-6,476.12	134.42	6,477.12	0.00	0.00	0.00
19,000.00	90.00	179.45	13,092.00	-6,576.12	135.38	6,577.12	0.00	0.00	0.00
19,100.00	90.00	179.45	13,092.00	-6,676.12	136.34	6,677.12	0.00	0.00	0.00
19,200.00	90.00	179.45	13,092.00	-6,776.11	137.30	6,777.12	0.00	0.00	0.00
19,300.00	90.00	179.45	13,092.00	-6,876.11	138.27	6,877.12	0.00	0.00	0.00
19,400.00	90.00	179.45	13,092.00	-6,976.10	139.23	6,977.12	0.00	0.00	0.00
19,500.00	90.00	179.45	13,092.00	-7,076.10	140.19	7,077.12	0.00	0.00	0.00
19,600.00	90.00	179.45	13,092.00	-7,176.09	141.16	7,177.12	0.00	0.00	0.00
19,700.00	90.00	179.45	13,092.00	-7,276.09	142.12	7,277.12	0.00	0.00	0.00
19,800.00	90.00	179.45	13,092.00	-7,376.08	143.08	7,377.12	0.00	0.00	0.00
19,900.00	90.00	179.45	13,092.00	-7,476.08	144.04	7,477.12	0.00	0.00	0.00
20,000.00	90.00	179.45	13,092.00	-7,576.07	145.01	7,577.12	0.00	0.00	0.00
20,100.00	90.00	179.45	13,092.00	-7,676.07	145.97	7,677.12	0.00	0.00	0.00
20,200.00	90.00	179.45	13,092.00	-7,776.06	146.93	7,777.12	0.00	0.00	0.00
20,300.00	90.00	179.45	13,092.00	-7,876.06	147.89	7,877.12	0.00	0.00	0.00
20,400.00	90.00	179.45	13,092.00	-7,976.06	148.86	7,977.12	0.00	0.00	0.00
20,500.00	90.00	179.45	13,092.00	-8,076.05	149.82	8,077.12	0.00	0.00	0.00
20,600.00	90.00	179.45	13,092.00	-8,176.05	150.78	8,177.12	0.00	0.00	0.00
20,700.00	90.00	179.45	13,092.00	-8,276.04	151.74	8,277.12	0.00	0.00	0.00
20,800.00	90.00	179.45	13,092.00	-8,376.04	152.71	8,377.12	0.00	0.00	0.00
20,900.00	90.00	179.45	13,092.00	-8,476.03	153.67	8,477.12	0.00	0.00	0.00
21,000.00	90.00	179.45	13,092.00	-8,576.03	154.63	8,577.12	0.00	0.00	0.00
21,100.00	90.00	179.45	13,092.00	-8,676.02	155.60	8,677.12	0.00	0.00	0.00
21,200.00	90.00	179.45	13,092.00	-8,776.02	156.56	8,777.12	0.00	0.00	0.00
21,300.00	90.00	179.45	13,092.00	-8,876.01	157.52	8,877.12	0.00	0.00	0.00
21,400.00	90.00	179.45	13,092.00	-8,976.01	158.48	8,977.12	0.00	0.00	0.00
21,500.00	90.00	179.45	13,092.00	-9,076.00	159.45	9,077.12	0.00	0.00	0.00
21,600.00	90.00	179.45	13,092.00	-9,176.00	160.41	9,177.12	0.00	0.00	0.00
21,700.00	90.00	179.45	13,092.00	-9,276.00	161.37	9,277.12	0.00	0.00	0.00
21,800.00	90.00	179.45	13,092.00	-9,375.99	162.33	9,377.12	0.00	0.00	0.00
21,900.00	90.00	179.45	13,092.00	-9,475.99	163.30	9,477.12	0.00	0.00	0.00
22,000.00	90.00	179.45	13,092.00	-9,575.98	164.26	9,577.12	0.00	0.00	0.00
22,100.00	90.00	179.45	13,092.00	-9,675.98	165.22	9,677.12	0.00	0.00	0.00
22,200.00	90.00	179.45	13,092.00	-9,775.97	166.18	9,777.12	0.00	0.00	0.00



## Planning Report



<b>Database:</b>	USA Compass	<b>Local Co-ordinate Reference:</b>	Well El Campeon Fed Com 513H
<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>TVD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Project:</b>	Lea County, NM - (NAD83 NME)	<b>MD Reference:</b>	RKB @ 3200.50usft (TBD)
<b>Site:</b>	El Campeon Fed Com (NAD83)	<b>North Reference:</b>	Grid
<b>Well:</b>	El Campeon Fed Com 513H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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)	
22,300.00	90.00	179.45	13,092.00	-9,875.97	167.15	9,877.12	0.00	0.00	0.00	
22,400.00	90.00	179.45	13,092.00	-9,975.96	168.11	9,977.12	0.00	0.00	0.00	
22,500.00	90.00	179.45	13,092.00	-10,075.96	169.07	10,077.12	0.00	0.00	0.00	
22,600.00	90.00	179.45	13,092.00	-10,175.95	170.04	10,177.12	0.00	0.00	0.00	
22,700.00	90.00	179.45	13,092.00	-10,275.95	171.00	10,277.12	0.00	0.00	0.00	
22,728.24	90.00	179.45	13,092.00	-10,304.19	171.27	10,305.36	0.00	0.00	0.00	
TD at 22728.24										

Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
LTP - El Camp Fed Com - plan misses target center by 0.02usft at 22633.75usft MD (13092.00 TVD, -10209.70 N, 170.36 E) - Point	0.00	0.00	13,092.00	-10,209.70	170.34	363,222.15	834,737.52	31° 59' 42.172787 N 103° 23' 12.894383 W		
SLC - El Camp Fed Cor - plan misses target center by 0.02usft at 20725.30usft MD (13092.00 TVD, -8301.34 N, 151.99 E) - Point	0.00	0.01	13,092.00	-8,301.34	151.97	365,130.51	834,719.15	32° 0' 1.057724 N 103° 23' 12.913718 W		
FTP - El Camp Fed Cor - plan misses target center by 85.39usft at 13130.72usft MD (13016.47 TVD, -720.31 N, 79.00 E) - Point	0.00	0.00	13,092.00	-680.47	78.62	372,751.38	834,645.80	32° 1' 16.472924 N 103° 23' 12.990567 W		
BHL - El Camp Fed Cor - plan hits target center - Point	0.00	0.00	13,092.00	-10,304.19	171.27	363,127.66	834,738.45	31° 59' 41.237722 N 103° 23' 12.893188 W		

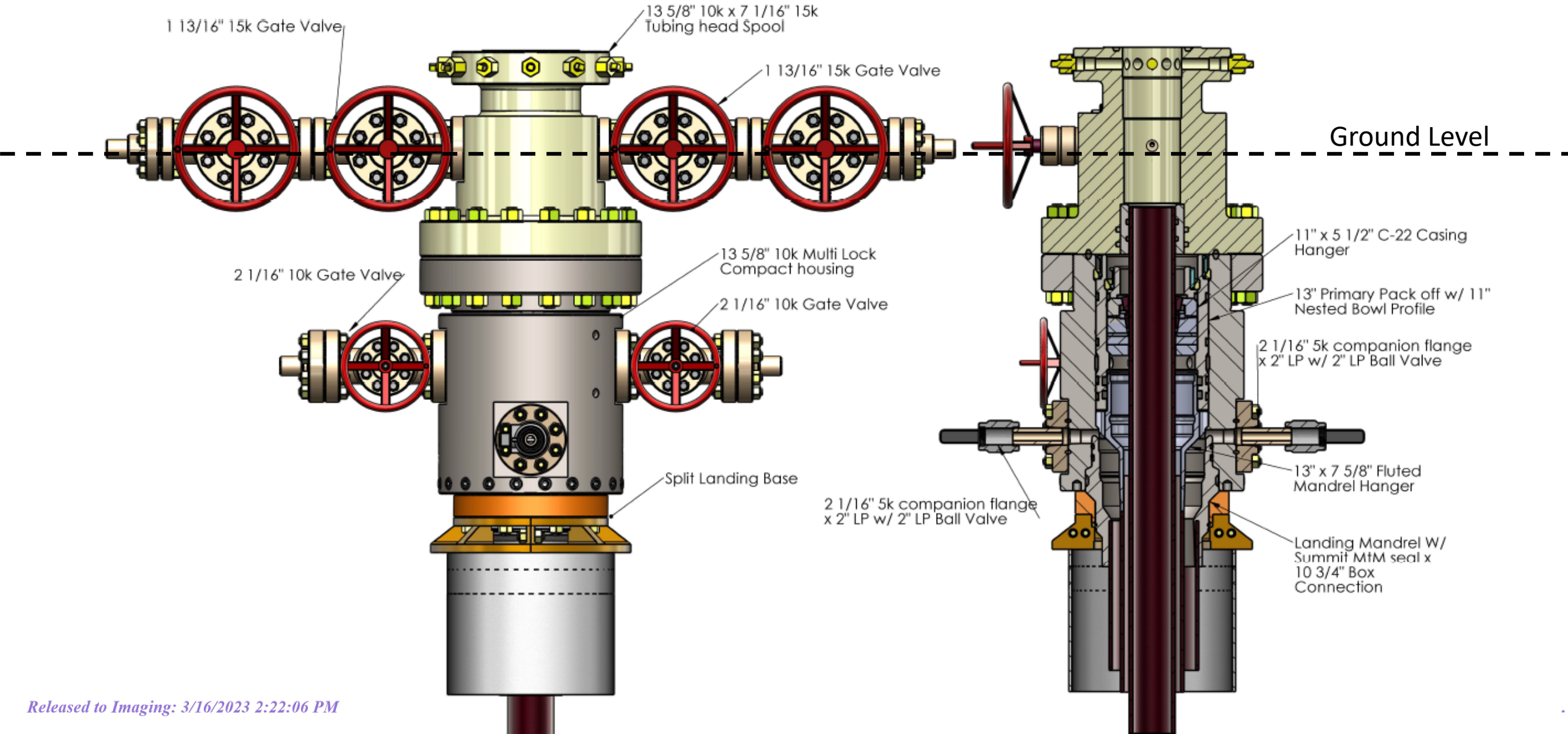
Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
23,045.45		20" Casing	20	24	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
1,500.00	1,500.00	0.00	0.00	KOP, Begin 2.00°/100' Build	
1,620.70	1,620.67	-2.50	0.44	Hold 2.41° Inc at 169.99° Azm	
11,907.54	11,898.38	-429.19	75.78	Begin 2.00°/100' Drop	
12,028.24	12,019.04	-431.69	76.22	Begin Vertical Hold	
12,528.24	12,519.04	-431.69	76.22	KOP2, Begin 10.00°/100' Build	
13,428.24	13,092.00	-1,004.62	81.74	LP, Hold 90.00° Inc at 179.45° Azm	
22,728.24	13,092.00	-10,304.19	171.27	TD at 22728.24	



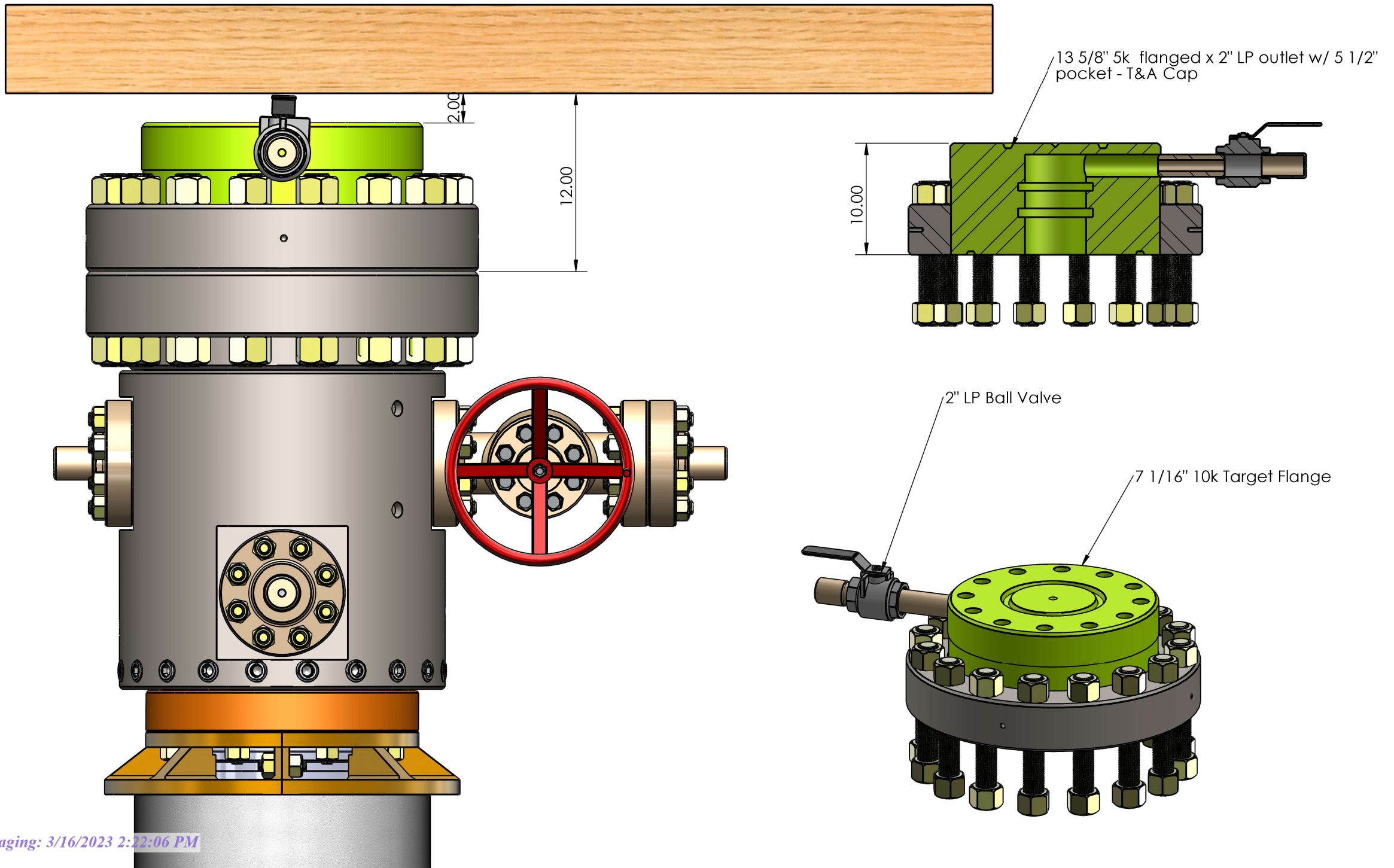
# 13 5/8" 10k Multi Lock Wellhead System 3 String Slim Hole 10 3/4" x 7 5/8" x 5 1/2"

**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  
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**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
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**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 195532

CONDITIONS

Operator: Earthstone Operating, LLC 1400 Woodloch Forest; Ste 300 The Woodlands, TX 77380	OGRID: 331165
	Action Number: 195532
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	3/16/2023