

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"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Subsequent Report	<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"/> Final Abandonment Notice	<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 / 1972 FEL / TWSP: 26S / RANGE: 35E / SECTION: 20 / LAT: 32.0231149 / LONG: -103.3872733 (TVD: 0 feet, MD: 0 feet)

PPP: TR B / 0 FNL / 2135 FEL / TWSP: 26S / RANGE: 35E / SECTION: 20 / LAT: 32.021516 / LONG: -103.387798 (TVD: 12600 feet, MD: 13096 feet)

BHL: LOT 2 / 10 FSL / 2308 FEL / TWSP: 26S / RANGE: 35E / SECTION: 32 / LAT: 32.0003209 / LONG: -103.3883341 (TVD: 12592 feet, MD: 20843 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

1 API Number 30-025-47827	2 Pool Code 96776	3 Pool Name JABALINA; WOLFCAMP, SOUTHWEST
4 Property Code	5 Property Name EL CAMPEON FED COM	6 Well Number 413H
7 OGRID No. 331165	8 Operator Name EARTHSTONE OPERATING LLC	9 Elevation 3175'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	20	26-S	35-E		581'	SOUTH	1972'	EAST	LEA

¹¹ State Line Crossing If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County (TX)
1	32	26S	35E	2	0'	SOUTH	2308'	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>16 SURFACE HOLE LOCATION (SHL) NEW MEXICO EAST - NAD 83 X=834537.09 LAT.= 32.02311493° N Y=373431.66 LONG.= 103.38727332° W NEW MEXICO EAST - NAD 27 X=793348.76 LAT.= 32.02298837° N Y=373374.47 LONG.= 103.38681353° W 581' FSL, 1972' FEL - SECTION 20</p> <p>FIRST TAKE POINT (FTP) NEW MEXICO EAST - NAD 83 X=834207.81 LAT.= 32.02124560° N Y=372748.68 LONG.= 103.38835495° W NEW MEXICO EAST - NAD 27 X=793019.45 LAT.= 32.02111905° N Y=372691.51 LONG.= 103.38789523° W 100' FNL, 2308' FEL - SECTION 29 100' FNL, 330' FWL - LEASE</p> <p>STATE LINE CROSSING (SLC) NEW MEXICO EAST - NAD 83 X=834280.90 LAT.= 32.00029347° N Y=365126.55 LONG.= 103.38833416° W NEW MEXICO EAST - NAD 27 X=793092.21 LAT.= 32.00016680° N Y=365069.58 LONG.= -103.38787562° W 0' FSL, 2308' FEL - SECTION 32 0' FSL, 330' FWL - LEASE MD = 20,700'</p> <p>LAST TAKE POINT (LTP) TEXAS CENTRAL - NAD 83 X=134951.74 LAT.= 31.99466171° N Y=10702239.92 LONG.= 103.38832695° W TEXAS CENTRAL - NAD 27 X=1053057.01 LAT.= 31.99453500° N Y=859660.94 LONG.= 103.38786855° W 100' FSL, 3959' FEL - SECTION 25 100' FSL, 330' FWL - LEASE</p> <p>BOTTOM HOLE LOCATION (BHL) TEXAS CENTRAL - NAD 83 X=134951.75 LAT.= 31.99440198° N Y=10702145.46 LONG.= 103.38832659° W TEXAS CENTRAL - NAD 27 X=1053054.52 LAT.= 31.99427527° N Y=859566.48 LONG.= 103.38786821° W 10' FSL, 3988' FEL - SECTION 25 10' FSL, 330' FWL - LEASE</p>	<p>17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Roger Lowery</i> 11/28/2022 Signature Date</p> <p>Roger Lowery Printed Name</p> <p>rlowery@earthstoneenergy.com E-mail Address</p> <p>SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>CHARLES L. JURICA 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

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

WELL NAME & NO.:	El CampeonFed Com 413H
SURFACE HOLE FOOTAGE:	581'S & 1972'E
BOTTOM HOLE FOOTAGE:	0'S & 2308'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 x 5** inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

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

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

GENERAL REQUIREMENTS

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

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

☒ Eddy County

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

☒ Lea County

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

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

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

A. CASING

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

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

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

B. PRESSURE CONTROL

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

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

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

ZS011323

Titus Oil & Gas Production, LLC - El Campeon Fed Com 413H

1. Geologic Formations

TVD of target	12,644' EOL	Pilot hole depth	NA
MD at TD:	22,199'	Deepest expected fresh water:	400'

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

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body
	From	To							
13.5"	0	1075	10.75"	45.5	J55	BTC	4.25	0.81	14.62
9.875"	0	12000	7.625"	29.7	HCL80	BTC	1.18	1.06	2.04
6.75"	0	11800	5.5"	20	P110	BTC	1.87	1.95	3.20
6.75"	11800	22,199	5"	18	P110	BTC	1.87	1.95	3.20
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet

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

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

Titus Oil & Gas Production, LLC - El Campeon Fed Com 413H

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

Titus Oil & Gas Production, LLC - El Campeon Fed Com 413H

3. Cementing Program

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

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

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

2nd Stage - Fill Up Stage Notes

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

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

Titus Oil & Gas Production, LLC - El Campeon Fed Com 413H

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 & Gas Production, LLC - El Campeon Fed Com 413H

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 413H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7760 psi at 12644' TVD
Abnormal Temperature	NO 180 Deg. F.

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

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

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

N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

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

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

District I

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

District II

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

District III

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

District IV

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

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

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-025-47827	2 Pool Code 98234	3 Pool Name WC-025 G-09 S263619C, Wolfcamp
4 Property Code	5 Property Name EL CAMPEON FED COM	6 Well Number 413H
7 OGRID No. 331165	8 Operator Name EARTHSTONE OPERATING LLC	9 Elevation 3175'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	20	26-S	35-E		581'	SOUTH	1972'	EAST	LEA

¹¹ State Line Crossing If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County (TX)
1	32	26S	35E	2	0'	SOUTH	2308'	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>16 SURFACE HOLE LOCATION (SHL) NEW MEXICO EAST - NAD 83 X=834537.09 LAT.= 32.02311493° N Y=373431.66 LONG.= 103.38727332° W NEW MEXICO EAST - NAD 27 X=793348.76 LAT.= 32.02298837° N Y=373374.47 LONG.= 103.38681353° W 581' FSL, 1972' FEL - SECTION 20</p> <p>FIRST TAKE POINT (FTP) NEW MEXICO EAST - NAD 83 X=834207.81 LAT.= 32.02124560° N Y=372748.68 LONG.= 103.38835495° W NEW MEXICO EAST - NAD 27 X=793019.45 LAT.= 32.02111905° N Y=372691.51 LONG.= 103.38789523° W 100' FNL, 2308' FEL - SECTION 29 100' FNL, 330' FWL - LEASE</p> <p>STATE LINE CROSSING (SLC) NEW MEXICO EAST - NAD 83 X=834280.90 LAT.= 32.00029347° N Y=365126.55 LONG.= 103.38833416° W NEW MEXICO EAST - NAD 27 X=793092.21 LAT.= 32.00016680° N Y=365069.58 LONG.= -103.38787562° W 0' FSL, 2308' FEL - SECTION 32 0' FSL, 330' FWL - LEASE MD = 20,700'</p> <p>LAST TAKE POINT (LTP) TEXAS CENTRAL - NAD 83 X=1349517.74 LAT.= 31.99466171° N Y=10702239.92 LONG.= 103.38832695° W TEXAS CENTRAL - NAD 27 X=1053057.01 LAT.= 31.99453500° N Y=859660.94 LONG.= 103.38786855° W 100' FSL, 3959' FEL - SECTION 25 100' FSL, 330' FWL - LEASE</p> <p>BOTTOM HOLE LOCATION (BHL) TEXAS CENTRAL - NAD 83 X=1349517.25 LAT.= 31.99440198° N Y=10702145.46 LONG.= 103.38832659° W TEXAS CENTRAL - NAD 27 X=1053054.52 LAT.= 31.99427527° N Y=859566.48 LONG.= 103.38786821° W 10' FSL, 3988' FEL - SECTION 25 10' FSL, 330' FWL - LEASE</p>	<p>17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Roger Lowery</i> 11/28/2022 Signature Date</p> <p>Roger Lowery Printed Name</p> <p>rlowery@earthstoneenergy.com E-mail Address</p> <p>SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>CHARLES L. JURICA 11/28/2022 Date of Survey</p> <p>Signature and Seal of Professional Surveyor: <i>Charles L. Jurica</i></p> <p>Certificate Number 25490</p>
---	---



Well Control Plan For 10M MASP Section of Wellbore

1. Component and Preventer Compatibility Table

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

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

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

2. Well Control and Shut-In Procedures

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

Drilling:

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

Tripping:

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



Well Control Plan For 10M MASP Section of Wellbore

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

Running Casing

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

No Pipe in Hole (Open Hole)

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

Pulling BHA through BOP Stack

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



Well Control Plan For 10M MASP Section of Wellbore

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

3. Well Control Drills

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

Drilling/Pit:

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



Well Control Plan For 10M MASP Section of Wellbore

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

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

Choke

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



Titus Oil & Gas Production, LLC

Lea County, NM - (NAD83 NME)

El Campeon Fed Com (NAD83)

El Campeon Fed Com 413H

OH

Plan 1 08-31-22

Anticollision Report

31 August, 2022





Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

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

Survey Tool Program	Date	8/31/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	22,199.47	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
Cattleman Fed Com 3						
Cattleman Fed Com 123H - OH / 69915 - Surveys (H&P 6)	10,695.89	18,912.00	62.42	2.33	1.039	Level 3, CC
Cattleman Fed Com 123H - OH / 69915 - Surveys (H&P 6)	10,700.00	18,912.00	62.56	2.19	1.036	Level 3, ES, SF
Cattleman Fed Com 213H - OH / 69914 - Surveys (H&P 6)	11,045.16	19,250.00	622.44	475.72	4.242	CC, ES
Cattleman Fed Com 213H - OH / 69914 - Surveys (H&P 6)	11,100.00	19,250.00	624.85	477.13	4.230	SF
Cattleman Fed Com 4						
Cattleman Fed Com 114H - OH / 69918 - Surveys (H&P 6)	10,529.08	18,705.00	1,285.47	1,139.92	8.832	CC, ES
Cattleman Fed Com 114H - OH / 69918 - Surveys (H&P 6)	10,600.00	18,705.00	1,287.42	1,141.48	8.822	SF
Cattleman Fed Com 204H - OH / 69917 - Surveys H&P 6	10,888.08	19,177.00	1,948.49	1,798.13	12.959	CC
Cattleman Fed Com 204H - OH / 69917 - Surveys H&P 6	10,900.00	19,177.00	1,948.53	1,798.04	12.948	ES
Cattleman Fed Com 204H - OH / 69917 - Surveys H&P 6	11,100.00	19,177.00	1,959.98	1,807.75	12.875	SF
Cattlemen Fed Com						
403H - OH / 68704 - Surveys (H&P 656)	12,453.41	20,991.00	701.39	545.96	4.513	CC, ES
403H - OH / 68704 - Surveys (H&P 656)	12,500.00	20,991.00	703.64	547.62	4.510	SF
422H - OH / 68635 - Surveys (H&P 625)	12,500.00	20,972.00	781.92	643.22	5.638	SF
422H - OH / 68635 - Surveys (H&P 625)	12,512.49	20,972.00	781.76	643.18	5.641	CC, ES
432H - OH / 68636 - Surveys (H&P 625)	12,539.12	21,094.00	1,347.06	1,198.91	9.092	CC, ES, SF
433H - OH / 68696 - Surveys (H&P 656)	12,500.00	21,235.00	386.41	290.45	4.027	SF
433H - OH / 68696 - Surveys (H&P 656)	12,527.68	21,235.00	384.75	289.61	4.044	CC, ES
512H - OH / 68637 - Surveys (H&P 625)	12,639.27	21,477.00	1,182.63	1,043.23	8.484	CC, ES, SF
513H - OH / 68705 - Surveys (H&P 656)	12,649.23	21,474.00	777.07	644.73	5.872	CC
513H - OH / 68705 - Surveys (H&P 656)	12,650.00	21,474.00	777.07	644.72	5.872	ES, SF
Cattlemen Fed Com - Deep						
Cattleman Fed Com 404H - OH / 67732 - Surveys (H&P 4)	12,423.42	20,964.00	1,962.70	1,809.01	12.770	CC
Cattleman Fed Com 404H - OH / 67732 - Surveys (H&P 4)	12,450.00	20,964.00	1,962.97	1,808.89	12.740	ES
Cattleman Fed Com 404H - OH / 67732 - Surveys (H&P 4)	12,600.00	20,964.00	1,974.22	1,818.24	12.657	SF
Cattleman Fed Com 434H - OH / 67733 - Surveys (H&P 4)	12,516.35	21,131.00	1,374.70	1,223.57	9.096	CC, ES
Cattleman Fed Com 434H - OH / 67733 - Surveys (H&P 4)	12,550.00	21,131.00	1,375.37	1,223.91	9.080	SF
Cattleman Fed Com 514H - OH / 67734 - Surveys (H&P 4)	12,635.77	21,341.00	1,907.30	1,759.61	12.914	CC
Cattleman Fed Com 514H - OH / 67734 - Surveys (H&P 4)	12,650.00	21,341.00	1,907.42	1,759.51	12.896	ES
Cattleman Fed Com 514H - OH / 67734 - Surveys (H&P 4)	12,750.00	21,341.00	1,914.44	1,765.24	12.831	SF

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
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Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
El Campeon Fed Com						
214H - OH / 68221 - Surveys (H&P 474)	9,115.28	9,174.00	1,054.51	998.08	18.688	CC
214H - OH / 68221 - Surveys (H&P 474)	9,200.00	9,250.42	1,054.84	997.85	18.507	ES
214H - OH / 68221 - Surveys (H&P 474)	20,000.00	18,808.00	2,033.92	1,867.60	12.229	SF
404H - OH / 68222 - Surveys (H&P 474)	269.48	266.49	1,382.12	1,379.08	454.275	CC
404H - OH / 68222 - Surveys (H&P 474)	1,200.00	1,189.87	1,386.53	1,378.27	167.790	ES
404H - OH / 68222 - Surveys (H&P 474)	20,100.00	20,525.00	1,951.12	1,701.57	7.819	SF
434H - OH / 68223 - Surveys (H&P 474)	8,116.25	8,195.39	1,054.65	1,001.97	20.022	CC
434H - OH / 68223 - Surveys (H&P 474)	8,200.00	8,271.73	1,054.92	1,001.62	19.793	ES
434H - OH / 68223 - Surveys (H&P 474)	20,100.00	20,912.00	1,323.91	1,074.32	5.304	SF
514H - OH / 68224 - Surveys (H&P 474)	1,169.04	1,166.08	1,347.85	1,339.73	166.002	CC
514H - OH / 68224 - Surveys (H&P 474)	1,200.00	1,193.62	1,347.89	1,339.61	162.914	ES
514H - OH / 68224 - Surveys (H&P 474)	20,100.00	20,918.00	1,663.01	1,414.93	6.703	SF
El Campeon Fed Com (NAD83)						
El Campeon Fed Com 412H - OH - Plan 1 08-31-22	1,500.00	1,499.00	1,230.15	1,220.59	128.635	CC
El Campeon Fed Com 412H - OH - Plan 1 08-31-22	22,199.47	22,702.92	1,317.43	1,011.61	4.308	ES, SF
El Campeon Fed Com 432H - OH - Plan 1 08-31-22	22,199.47	22,541.68	667.21	366.07	2.216	CC, ES, SF
El Campeon Fed Com 433H - OH - Plan 1 08-31-22	1,500.00	1,500.00	60.07	50.51	6.280	CC, ES
El Campeon Fed Com 433H - OH - Plan 1 08-31-22	22,000.00	22,125.24	667.72	372.81	2.264	SF
El Campeon Fed Com 512H - OH - Plan 1 08-31-22	11,418.39	11,383.97	1,139.76	1,100.89	29.319	CC
El Campeon Fed Com 512H - OH - Plan 1 08-31-22	22,199.47	22,889.86	1,210.33	928.06	4.288	ES, SF
El Campeon Fed Com 513H - OH - Plan 1 08-31-22	1,500.00	1,499.00	30.09	20.53	3.147	CC, ES
El Campeon Fed Com 513H - OH - Plan 1 08-31-22	22,100.00	22,728.24	628.33	382.80	2.559	SF

Offset Design: Cattleman Fed Com 3 - Cattleman Fed Com 123H - OH / 69915 - Surveys (H&P 616)												Offset Site Error: 0.00 usft	
Survey Program: 206-MWD+HRGM				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)			
0.00	0.00	53.36	4.36	1.00	1.06	-0.447	7,680.60	-59.96	7,680.83				
100.00	100.00	162.27	113.27	1.08	1.47	-0.449	7,680.47	-60.25	7,680.72	7,678.17	2.55	3,017.050	
200.00	200.00	265.73	216.73	1.60	2.04	-0.453	7,680.25	-60.73	7,680.51	7,676.89	3.62	2,122.588	
300.00	300.00	363.52	314.51	2.01	2.60	-0.456	7,680.04	-61.07	7,680.30	7,675.72	4.57	1,679.808	
400.00	400.00	457.93	408.92	2.35	3.07	-0.458	7,679.89	-61.43	7,680.14	7,674.77	5.38	1,428.638	
500.00	500.00	552.01	503.01	2.65	3.38	-0.461	7,679.82	-61.83	7,680.07	7,674.11	5.95	1,290.172	
600.00	600.00	654.35	605.34	2.93	3.62	-0.465	7,679.77	-62.34	7,680.02	7,673.59	6.43	1,193.771	
635.20	635.20	684.20	635.20	3.02	3.69	-0.466	7,679.75	-62.51	7,680.01	7,673.43	6.58	1,167.811	
700.00	700.00	736.88	687.87	3.18	3.81	-0.469	7,679.79	-62.83	7,680.06	7,673.22	6.83	1,123.664	
800.00	800.00	840.88	791.87	3.41	4.04	-0.473	7,679.95	-63.43	7,680.21	7,672.96	7.25	1,059.227	
900.00	900.00	937.38	888.37	3.64	4.25	-0.478	7,680.07	-64.05	7,680.35	7,672.71	7.64	1,005.885	
1,000.00	1,000.00	1,047.51	998.49	3.85	4.50	-0.483	7,680.17	-64.73	7,680.44	7,672.41	8.03	956.591	
1,100.00	1,100.00	1,150.82	1,101.81	4.05	4.70	-0.487	7,680.12	-65.29	7,680.40	7,672.03	8.37	918.021	
1,200.00	1,200.00	1,270.64	1,221.63	4.24	5.04	-0.491	7,679.95	-65.76	7,680.26	7,671.42	8.84	868.629	
1,300.00	1,300.00	1,406.53	1,357.51	4.43	5.36	-0.496	7,679.26	-66.46	7,679.77	7,670.47	9.29	826.399	
1,400.00	1,400.00	1,474.30	1,425.28	4.61	5.50	-0.498	7,678.94	-66.73	7,679.27	7,669.69	9.58	801.451	
1,500.00	1,500.00	1,566.48	1,517.46	4.78	5.63	-0.499	7,678.70	-66.85	7,679.01	7,669.12	9.89	776.481	
1,507.17	1,507.17	1,573.39	1,524.37	4.79	5.64	153.520	7,678.69	-66.85	7,679.00	7,669.09	9.91	774.737	
1,600.00	1,599.98	1,690.94	1,641.92	4.98	5.78	153.518	7,678.25	-66.74	7,680.22	7,669.97	10.25	749.462	
1,700.00	1,699.84	1,772.00	1,722.98	5.60	5.91	153.493	7,678.00	-66.80	7,684.58	7,673.67	10.90	704.721	
1,718.18	1,717.96	1,780.39	1,731.37	5.62	5.93	153.485	7,677.99	-66.81	7,685.73	7,674.80	10.93	703.297	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 3 - Cattleman Fed Com 123H - OH / 69915 - Surveys (H&P 616)												Offset Site Error:	0.00 usft
Survey Program: 206-MWD+HRGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
1,800.00	1,799.55	1,863.48	1,814.46	5.72	6.05	153.506	7,677.84	-66.84	7,691.15	7,680.00	11.15	690.070	
1,900.00	1,899.26	1,960.00	1,910.98	5.89	6.19	153.530	7,677.65	-66.94	7,697.77	7,686.33	11.45	672.556	
2,000.00	1,998.97	2,055.58	2,006.56	6.09	6.37	153.552	7,677.52	-67.14	7,704.45	7,692.67	11.78	654.285	
2,100.00	2,098.68	2,171.51	2,122.49	6.30	6.48	153.584	7,677.21	-66.88	7,710.99	7,698.87	12.12	636.227	
2,200.00	2,198.39	2,251.48	2,202.45	6.53	6.51	153.608	7,677.08	-66.35	7,717.64	7,705.22	12.42	621.297	
2,300.00	2,298.10	2,338.00	2,288.97	6.77	6.53	153.634	7,677.03	-65.69	7,724.41	7,711.68	12.73	606.712	
2,400.00	2,397.81	2,407.99	2,358.96	7.02	6.61	153.652	7,677.18	-65.62	7,731.48	7,718.45	13.03	593.242	
2,500.00	2,497.52	2,432.00	2,382.97	7.28	6.63	153.657	7,677.33	-65.82	7,739.20	7,725.90	13.29	582.117	
2,600.00	2,597.23	2,471.01	2,421.97	7.55	6.74	153.661	7,677.90	-66.58	7,747.73	7,734.08	13.65	567.508	
2,700.00	2,696.94	2,526.00	2,476.88	7.83	6.91	153.658	7,679.74	-68.87	7,757.55	7,743.48	14.06	551.663	
2,800.00	2,796.65	2,526.00	2,476.88	8.12	6.91	153.658	7,679.74	-68.87	7,767.83	7,753.52	14.32	542.561	
2,900.00	2,896.36	2,526.00	2,476.88	8.42	6.91	153.658	7,679.74	-68.87	7,779.40	7,764.82	14.58	533.736	
3,000.00	2,996.07	18,795.61	10,679.25	8.72	119.17	154.629	-442.96	-301.08	7,695.27	7,619.74	75.52	101.891	
3,100.00	3,095.78	18,797.93	10,679.15	9.03	119.20	154.634	-445.28	-301.09	7,595.29	7,519.63	75.66	100.388	
3,200.00	3,195.49	18,800.25	10,679.04	9.34	119.23	154.639	-447.60	-301.10	7,495.32	7,419.52	75.80	98.886	
3,300.00	3,295.20	18,802.58	10,678.94	9.66	119.26	154.644	-449.92	-301.11	7,395.35	7,319.41	75.94	97.387	
3,400.00	3,394.91	18,804.90	10,678.83	9.98	119.30	154.649	-452.24	-301.12	7,295.37	7,219.29	76.08	95.890	
3,500.00	3,494.62	18,807.22	10,678.73	10.30	119.33	154.654	-454.57	-301.13	7,195.40	7,119.17	76.23	94.396	
3,600.00	3,594.33	18,809.54	10,678.62	10.63	119.36	154.659	-456.89	-301.14	7,095.43	7,019.05	76.37	92.904	
3,700.00	3,694.04	18,811.87	10,678.52	10.96	119.39	154.664	-459.21	-301.15	6,995.45	6,918.93	76.52	91.415	
3,800.00	3,793.75	18,814.19	10,678.41	11.29	119.43	154.670	-461.53	-301.16	6,895.48	6,818.80	76.68	89.928	
3,900.00	3,893.47	18,816.51	10,678.31	11.63	119.46	154.676	-463.85	-301.16	6,795.51	6,718.68	76.83	88.445	
4,000.00	3,993.18	18,818.84	10,678.20	11.97	119.49	154.682	-466.17	-301.17	6,695.54	6,618.54	76.99	86.964	
4,100.00	4,092.89	18,821.16	10,678.09	12.31	119.53	154.688	-468.49	-301.18	6,595.56	6,518.41	77.15	85.487	
4,200.00	4,192.60	18,823.48	10,677.99	12.65	119.56	154.694	-470.81	-301.19	6,495.59	6,418.27	77.32	84.014	
4,300.00	4,292.31	18,825.81	10,677.88	13.00	119.59	154.700	-473.13	-301.20	6,395.62	6,318.13	77.48	82.543	
4,400.00	4,392.02	18,828.13	10,677.78	13.34	119.62	154.707	-475.45	-301.21	6,295.64	6,217.99	77.65	81.076	
4,500.00	4,491.73	18,830.45	10,677.67	13.69	119.66	154.714	-477.77	-301.22	6,195.67	6,117.85	77.82	79.613	
4,600.00	4,591.44	18,832.78	10,677.57	14.04	119.69	154.721	-480.09	-301.23	6,095.70	6,017.70	78.00	78.154	
4,700.00	4,691.15	18,835.10	10,677.46	14.39	119.72	154.728	-482.41	-301.24	5,995.72	5,917.55	78.17	76.699	
4,800.00	4,790.86	18,837.42	10,677.36	14.74	119.76	154.736	-484.74	-301.25	5,895.75	5,817.40	78.35	75.248	
4,900.00	4,890.57	18,839.75	10,677.25	15.10	119.79	154.744	-487.06	-301.26	5,795.78	5,717.25	78.53	73.801	
5,000.00	4,990.28	18,842.07	10,677.15	15.45	119.82	154.752	-489.38	-301.27	5,695.81	5,617.09	78.72	72.358	
5,100.00	5,089.99	18,844.39	10,677.04	15.81	119.85	154.760	-491.70	-301.28	5,595.83	5,516.93	78.90	70.919	
5,200.00	5,189.70	18,846.72	10,676.94	16.16	119.89	154.769	-494.02	-301.29	5,495.86	5,416.77	79.09	69.485	
5,300.00	5,289.41	18,849.04	10,676.83	16.52	119.92	154.778	-496.34	-301.30	5,395.89	5,316.60	79.29	68.056	
5,400.00	5,389.12	18,851.36	10,676.72	16.88	119.95	154.788	-498.66	-301.31	5,295.91	5,216.43	79.48	66.631	
5,500.00	5,488.83	18,853.69	10,676.62	17.24	119.98	154.797	-500.98	-301.32	5,195.94	5,116.26	79.68	65.212	
5,600.00	5,588.54	18,856.01	10,676.51	17.59	120.02	154.807	-503.30	-301.33	5,095.97	5,016.09	79.88	63.797	
5,700.00	5,688.25	18,858.33	10,676.41	17.95	120.05	154.818	-505.62	-301.34	4,995.99	4,915.91	80.08	62.387	
5,800.00	5,787.96	18,860.66	10,676.30	18.32	120.08	154.829	-507.94	-301.35	4,896.02	4,815.73	80.29	60.982	
5,900.00	5,887.67	18,862.98	10,676.20	18.68	120.12	154.840	-510.26	-301.36	4,796.05	4,715.55	80.49	59.582	
6,000.00	5,987.38	18,865.30	10,676.09	19.04	120.15	154.852	-512.59	-301.37	4,696.08	4,615.37	80.71	58.188	
6,100.00	6,087.09	18,867.62	10,675.99	19.40	120.18	154.865	-514.91	-301.38	4,596.10	4,515.18	80.92	56.798	
6,200.00	6,186.80	18,869.95	10,675.88	19.76	120.21	154.878	-517.23	-301.39	4,496.13	4,414.99	81.14	55.415	
6,300.00	6,286.51	18,872.27	10,675.78	20.13	120.25	154.891	-519.55	-301.40	4,396.16	4,314.80	81.35	54.037	
6,400.00	6,386.22	18,874.59	10,675.67	20.49	120.28	154.906	-521.87	-301.41	4,296.18	4,214.61	81.58	52.664	
6,500.00	6,485.93	18,876.92	10,675.57	20.86	120.31	154.920	-524.19	-301.42	4,196.21	4,114.41	81.80	51.298	
6,600.00	6,585.64	18,879.24	10,675.46	21.22	120.34	154.936	-526.51	-301.43	4,096.24	4,014.21	82.03	49.937	
6,700.00	6,685.35	18,881.56	10,675.35	21.59	120.38	154.953	-528.83	-301.44	3,996.26	3,914.01	82.26	48.582	
6,800.00	6,785.06	18,883.89	10,675.25	21.95	120.41	154.970	-531.15	-301.45	3,896.29	3,813.80	82.49	47.233	
6,900.00	6,884.77	18,886.21	10,675.14	22.32	120.44	154.988	-533.47	-301.46	3,796.32	3,713.59	82.73	45.890	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 3 - Cattleman Fed Com 123H - OH / 69915 - Surveys (H&P 616)													Offset Site Error: 0.00 usft
Survey Program: 206-MWD+HRGM													Offset Well Error: 1.00 usft
Rule Assigned:													
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
7,000.00	6,984.48	18,888.53	10,675.04	22.68	120.48	155.007	-535.79	-301.47	3,696.35	3,613.38	82.97	44.553	
7,100.00	7,084.19	18,890.86	10,674.93	23.05	120.51	155.027	-538.11	-301.48	3,596.37	3,513.17	83.21	43.222	
7,200.00	7,183.90	18,893.18	10,674.83	23.42	120.54	155.049	-540.43	-301.49	3,496.40	3,412.95	83.45	41.898	
7,300.00	7,283.61	18,895.50	10,674.72	23.78	120.57	155.071	-542.76	-301.50	3,396.43	3,312.73	83.70	40.580	
7,400.00	7,383.32	18,897.83	10,674.62	24.15	120.61	155.095	-545.08	-301.51	3,296.45	3,212.51	83.95	39.268	
7,500.00	7,483.03	18,900.15	10,674.51	24.52	120.64	155.121	-547.40	-301.52	3,196.48	3,112.28	84.20	37.963	
7,600.00	7,582.74	18,902.47	10,674.41	24.89	120.67	155.148	-549.72	-301.52	3,096.51	3,012.05	84.46	36.665	
7,700.00	7,682.45	18,904.80	10,674.30	25.25	120.71	155.177	-552.04	-301.53	2,996.53	2,911.82	84.71	35.373	
7,800.00	7,782.16	18,907.12	10,674.19	25.62	120.74	155.208	-554.36	-301.54	2,896.56	2,811.59	84.97	34.088	
7,900.00	7,881.87	18,909.44	10,674.09	25.99	120.77	155.241	-556.68	-301.55	2,796.59	2,711.35	85.24	32.809	
8,000.00	7,981.58	18,911.77	10,673.98	26.36	120.80	155.276	-559.00	-301.56	2,696.62	2,611.11	85.50	31.538	
8,100.00	8,081.29	18,912.00	10,673.97	26.73	120.81	155.280	-559.24	-301.56	2,596.64	2,510.88	85.76	30.279	
8,200.00	8,181.00	18,912.00	10,673.97	27.10	120.81	155.280	-559.24	-301.56	2,496.67	2,410.66	86.01	29.027	
8,300.00	8,280.71	18,912.00	10,673.97	27.47	120.81	155.280	-559.24	-301.56	2,396.71	2,310.43	86.27	27.781	
8,400.00	8,380.42	18,912.00	10,673.97	27.84	120.81	155.280	-559.24	-301.56	2,296.74	2,210.21	86.53	26.542	
8,500.00	8,480.13	18,912.00	10,673.97	28.21	120.81	155.280	-559.24	-301.56	2,196.78	2,109.99	86.79	25.310	
8,600.00	8,579.84	18,912.00	10,673.97	28.58	120.81	155.280	-559.24	-301.56	2,096.82	2,009.76	87.06	24.085	
8,700.00	8,679.55	18,912.00	10,673.97	28.95	120.81	155.280	-559.24	-301.56	1,996.87	1,909.54	87.33	22.866	
8,800.00	8,779.26	18,912.00	10,673.97	29.32	120.81	155.280	-559.24	-301.56	1,896.92	1,809.32	87.60	21.654	
8,900.00	8,878.97	18,912.00	10,673.97	29.69	120.81	155.280	-559.24	-301.56	1,796.98	1,709.10	87.88	20.449	
9,000.00	8,978.68	18,912.00	10,673.97	30.06	120.81	155.280	-559.24	-301.56	1,697.04	1,608.89	88.15	19.251	
9,100.00	9,078.39	18,912.00	10,673.97	30.43	120.81	155.280	-559.24	-301.56	1,597.11	1,508.68	88.43	18.060	
9,200.00	9,178.10	18,912.00	10,673.97	30.80	120.81	155.280	-559.24	-301.56	1,497.19	1,408.48	88.71	16.877	
9,300.00	9,277.81	18,912.00	10,673.97	31.17	120.81	155.280	-559.24	-301.56	1,397.29	1,308.29	89.00	15.700	
9,400.00	9,377.52	18,912.00	10,673.97	31.54	120.81	155.280	-559.24	-301.56	1,297.40	1,208.11	89.28	14.531	
9,500.00	9,477.23	18,912.00	10,673.97	31.91	120.81	155.280	-559.24	-301.56	1,197.52	1,107.95	89.57	13.369	
9,600.00	9,576.94	18,912.00	10,673.97	32.29	120.81	155.280	-559.24	-301.56	1,097.67	1,007.81	89.86	12.215	
9,700.00	9,676.65	18,912.00	10,673.97	32.66	120.81	155.280	-559.24	-301.56	997.85	907.69	90.15	11.068	
9,800.00	9,776.36	18,912.00	10,673.97	33.03	120.81	155.280	-559.24	-301.56	898.06	807.62	90.44	9.930	
9,900.00	9,876.07	18,912.00	10,673.97	33.40	120.81	155.280	-559.24	-301.56	798.34	707.61	90.73	8.799	
10,000.00	9,975.78	18,912.00	10,673.97	33.77	120.81	155.280	-559.24	-301.56	698.69	607.67	91.01	7.677	
10,100.00	10,075.49	18,912.00	10,673.97	34.14	120.81	155.280	-559.24	-301.56	599.15	507.87	91.29	6.563	
10,200.00	10,175.20	18,912.00	10,673.97	34.52	120.81	155.280	-559.24	-301.56	499.81	408.27	91.54	5.460	
10,300.00	10,274.91	18,912.00	10,673.97	34.89	120.81	155.280	-559.24	-301.56	400.78	309.05	91.73	4.369	
10,400.00	10,374.62	18,912.00	10,673.97	35.26	120.81	155.280	-559.24	-301.56	302.41	210.63	91.78	3.295	
10,500.00	10,474.33	18,912.00	10,673.97	35.63	120.81	155.280	-559.24	-301.56	205.60	114.29	91.31	2.252	
10,600.00	10,574.04	18,912.00	10,673.97	36.01	120.81	155.280	-559.24	-301.56	114.42	26.81	87.61	1.306 Level 3	
10,695.89	10,669.66	18,912.00	10,673.97	36.36	120.81	155.280	-559.24	-301.56	62.42	2.33	60.09	1.039 Level 3, CC	
10,700.00	10,673.75	18,912.00	10,673.97	36.38	120.81	155.280	-559.24	-301.56	62.56	2.19	60.37	1.036 Level 3, ES, SF	
10,800.00	10,773.46	18,912.00	10,673.97	36.75	120.81	155.280	-559.24	-301.56	121.39	32.75	88.64	1.369 Level 3	
10,900.00	10,873.18	18,912.00	10,673.97	37.12	120.81	155.280	-559.24	-301.56	213.44	120.92	92.52	2.307	
11,000.00	10,972.89	18,912.00	10,673.97	37.50	120.81	155.280	-559.24	-301.56	310.45	216.81	93.64	3.315	
11,100.00	11,072.60	18,912.00	10,673.97	37.87	120.81	155.280	-559.24	-301.56	408.90	314.63	94.27	4.338	
11,200.00	11,172.31	18,912.00	10,673.97	38.24	120.81	155.280	-559.24	-301.56	507.96	413.21	94.75	5.361	
11,300.00	11,272.02	18,912.00	10,673.97	38.62	120.81	155.280	-559.24	-301.56	607.32	512.16	95.17	6.382	
11,381.30	11,353.08	18,912.00	10,673.97	38.92	120.81	155.280	-559.24	-301.56	688.24	592.75	95.49	7.207	
11,400.00	11,371.73	18,912.00	10,673.97	38.98	120.81	156.912	-559.24	-301.56	706.86	611.30	95.56	7.397	
11,500.00	11,471.59	18,912.00	10,673.97	39.34	120.81	163.389	-559.24	-301.56	806.32	710.36	95.96	8.403	
11,599.47	11,571.04	18,912.00	10,673.97	39.49	120.81	13.402	-559.24	-301.56	905.04	808.69	96.35	9.393	
11,600.00	11,571.57	18,912.00	10,673.97	39.49	120.81	13.402	-559.24	-301.56	905.56	809.21	96.36	9.398	
11,700.00	11,671.57	18,912.00	10,673.97	39.52	120.81	13.402	-559.24	-301.56	1,004.77	908.02	96.75	10.385	
11,800.00	11,771.57	18,912.00	10,673.97	39.52	120.81	13.402	-559.24	-301.56	1,104.12	1,006.98	97.14	11.366	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 3 - Cattleman Fed Com 123H - OH / 69915 - Surveys (H&P 616)												Offset Site Error:	0.00 usft
Survey Program: 206-MWD+HRGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
11,900.00	11,871.57	18,912.00	10,673.97	39.53	120.81	13.402	-559.24	-301.56	1,203.58	1,106.05	97.53	12.340	
12,000.00	11,971.57	18,912.00	10,673.97	39.54	120.81	13.402	-559.24	-301.56	1,303.12	1,205.20	97.92	13.308	
12,099.47	12,071.04	18,912.00	10,673.97	39.54	120.81	13.402	-559.24	-301.56	1,402.20	1,303.90	98.30	14.264	
12,100.00	12,071.57	18,912.00	10,673.97	39.55	120.81	-165.894	-559.24	-301.56	1,402.73	1,304.42	98.30	14.269	
12,150.00	12,121.50	18,912.00	10,673.97	39.65	120.81	-72.004	-559.24	-301.56	1,452.66	1,354.17	98.50	14.748	
12,200.00	12,171.05	18,912.00	10,673.97	39.91	120.81	-11.822	-559.24	-301.56	1,502.58	1,403.89	98.68	15.226	
12,250.00	12,219.84	18,912.00	10,673.97	40.20	120.81	-6.108	-559.24	-301.56	1,552.11	1,453.24	98.87	15.699	
12,300.00	12,267.50	18,912.00	10,673.97	40.50	120.81	-4.088	-559.24	-301.56	1,600.93	1,501.89	99.05	16.164	
12,350.00	12,313.66	18,912.00	10,673.97	40.80	120.81	-3.064	-559.24	-301.56	1,648.76	1,549.54	99.21	16.618	
12,400.00	12,357.98	18,912.00	10,673.97	41.09	120.81	-2.449	-559.24	-301.56	1,695.31	1,595.94	99.37	17.060	
12,450.00	12,400.11	18,912.00	10,673.97	41.38	120.81	-2.041	-559.24	-301.56	1,740.37	1,640.86	99.51	17.489	
12,500.00	12,439.74	18,912.00	10,673.97	41.66	120.81	-1.753	-559.24	-301.56	1,783.71	1,684.07	99.64	17.902	
12,550.00	12,476.56	18,912.00	10,673.97	41.92	120.81	-1.541	-559.24	-301.56	1,825.13	1,725.39	99.74	18.299	
12,600.00	12,510.29	18,912.00	10,673.97	42.16	120.81	-1.378	-559.24	-301.56	1,864.46	1,764.64	99.82	18.679	
12,650.00	12,540.68	18,912.00	10,673.97	42.39	120.81	-1.252	-559.24	-301.56	1,901.53	1,801.67	99.86	19.041	
12,700.00	12,567.50	18,912.00	10,673.97	42.58	120.81	-1.151	-559.24	-301.56	1,936.21	1,836.33	99.88	19.385	
12,750.00	12,590.54	18,912.00	10,673.97	42.76	120.81	-1.069	-559.24	-301.56	1,968.36	1,868.49	99.86	19.711	
12,800.00	12,609.63	18,912.00	10,673.97	42.91	120.81	-1.003	-559.24	-301.56	1,997.86	1,898.05	99.81	20.017	
12,850.00	12,624.61	18,912.00	10,673.97	43.03	120.81	-0.949	-559.24	-301.56	2,024.61	1,924.89	99.72	20.303	
12,900.00	12,635.39	18,912.00	10,673.97	43.12	120.81	-0.905	-559.24	-301.56	2,048.52	1,948.93	99.59	20.570	
12,950.00	12,641.87	18,912.00	10,673.97	43.19	120.81	-0.869	-559.24	-301.56	2,069.51	1,970.09	99.42	20.816	
12,999.47	12,644.00	18,912.00	10,673.97	43.23	120.81	-0.841	-559.24	-301.56	2,087.33	1,988.12	99.21	21.039	
13,000.00	12,644.00	18,912.00	10,673.97	43.24	120.81	-0.841	-559.24	-301.56	2,087.51	1,988.30	99.21	21.041	
13,100.00	12,644.00	18,912.00	10,673.97	43.31	120.81	-0.841	-559.24	-301.56	2,122.65	2,024.04	98.61	21.525	
13,200.00	12,644.00	18,912.00	10,673.97	43.39	120.81	-0.841	-559.24	-301.56	2,161.85	2,064.05	97.80	22.104	
13,300.00	12,644.00	18,912.00	10,673.97	43.50	120.81	-0.841	-559.24	-301.56	2,204.90	2,107.96	96.94	22.745	
13,400.00	12,644.00	18,912.00	10,673.97	43.63	120.81	-0.841	-559.24	-301.56	2,251.56	2,155.53	96.03	23.446	
13,500.00	12,644.00	18,912.00	10,673.97	43.78	120.81	-0.841	-559.24	-301.56	2,301.63	2,206.53	95.10	24.203	
13,600.00	12,644.00	18,912.00	10,673.97	43.96	120.81	-0.841	-559.24	-301.56	2,354.88	2,260.74	94.14	25.014	
13,700.00	12,644.00	18,912.00	10,673.97	44.18	120.81	-0.841	-559.24	-301.56	2,411.10	2,317.92	93.18	25.876	
13,800.00	12,644.00	18,912.00	10,673.97	44.44	120.81	-0.841	-559.24	-301.56	2,470.10	2,377.88	92.22	26.786	
13,900.00	12,644.00	18,912.00	10,673.97	44.74	120.81	-0.841	-559.24	-301.56	2,531.67	2,440.41	91.26	27.742	
14,000.00	12,644.00	18,912.00	10,673.97	45.11	120.81	-0.841	-559.24	-301.56	2,595.63	2,505.32	90.31	28.740	
14,100.00	12,644.00	18,912.00	10,673.97	45.54	120.81	-0.841	-559.24	-301.56	2,661.82	2,572.43	89.39	29.779	
14,200.00	12,644.00	18,912.00	10,673.97	46.05	120.81	-0.841	-559.24	-301.56	2,730.06	2,641.58	88.48	30.856	
14,300.00	12,644.00	18,912.00	10,673.97	46.65	120.81	-0.841	-559.24	-301.56	2,800.21	2,712.62	87.60	31.968	
14,400.00	12,644.00	18,912.00	10,673.97	47.33	120.81	-0.841	-559.24	-301.56	2,872.14	2,785.40	86.74	33.113	
14,500.00	12,644.00	18,912.00	10,673.97	48.09	120.81	-0.841	-559.24	-301.56	2,945.70	2,859.79	85.91	34.288	
14,600.00	12,644.00	18,912.00	10,673.97	48.94	120.81	-0.841	-559.24	-301.56	3,020.78	2,935.67	85.11	35.493	
14,700.00	12,644.00	18,912.00	10,673.97	49.86	120.81	-0.841	-559.24	-301.56	3,097.26	3,012.92	84.34	36.724	
14,800.00	12,644.00	18,912.00	10,673.97	50.85	120.81	-0.841	-559.24	-301.56	3,175.06	3,091.46	83.60	37.979	
14,900.00	12,644.00	18,912.00	10,673.97	51.89	120.81	-0.841	-559.24	-301.56	3,254.07	3,171.18	82.89	39.257	
15,000.00	12,644.00	18,912.00	10,673.97	52.99	120.81	-0.841	-559.24	-301.56	3,334.21	3,252.00	82.21	40.557	
15,100.00	12,644.00	18,912.00	10,673.97	54.12	120.81	-0.841	-559.24	-301.56	3,415.39	3,333.83	81.56	41.876	
15,200.00	12,644.00	18,912.00	10,673.97	55.29	120.81	-0.841	-559.24	-301.56	3,497.55	3,416.61	80.94	43.213	
15,300.00	12,644.00	18,912.00	10,673.97	56.49	120.81	-0.841	-559.24	-301.56	3,580.62	3,500.27	80.34	44.566	
15,400.00	12,644.00	18,912.00	10,673.97	57.72	120.81	-0.841	-559.24	-301.56	3,664.53	3,584.75	79.78	45.934	
15,500.00	12,644.00	18,912.00	10,673.97	58.96	120.81	-0.841	-559.24	-301.56	3,749.23	3,670.00	79.24	47.316	
15,600.00	12,644.00	18,912.00	10,673.97	60.22	120.81	-0.841	-559.24	-301.56	3,834.67	3,755.95	78.72	48.711	
15,700.00	12,644.00	18,912.00	10,673.97	61.50	120.81	-0.841	-559.24	-301.56	3,920.80	3,842.57	78.23	50.117	
15,800.00	12,644.00	18,912.00	10,673.97	62.79	120.81	-0.841	-559.24	-301.56	4,007.57	3,929.81	77.77	51.533	
15,900.00	12,644.00	18,912.00	10,673.97	64.09	120.81	-0.841	-559.24	-301.56	4,094.95	4,017.62	77.32	52.958	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 3 - Cattleman Fed Com 123H - OH / 69915 - Surveys (H&P 616)													Offset Site Error: 0.00 usft	
Survey Program: 206-MWD+HRGM		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	
16,000.00	12,644.00	18,912.00	10,673.97	65.40	120.81	-0.841	-559.24	-301.56	4,182.89	4,105.99	76.90	54.392		
16,100.00	12,644.00	18,912.00	10,673.97	66.72	120.81	-0.841	-559.24	-301.56	4,271.36	4,194.86	76.50	55.833		
16,200.00	12,644.00	18,912.00	10,673.97	68.04	120.81	-0.841	-559.24	-301.56	4,360.33	4,284.21	76.12	57.280		
16,300.00	12,644.00	18,912.00	10,673.97	69.38	120.81	-0.841	-559.24	-301.56	4,449.77	4,374.01	75.76	58.734		
16,400.00	12,644.00	18,912.00	10,673.97	70.72	120.81	-0.841	-559.24	-301.56	4,539.65	4,464.23	75.42	60.192		
16,500.00	12,644.00	18,912.00	10,673.97	72.07	120.81	-0.841	-559.24	-301.56	4,629.94	4,554.85	75.10	61.654		
16,600.00	12,644.00	18,912.00	10,673.97	73.42	120.81	-0.841	-559.24	-301.56	4,720.63	4,645.84	74.79	63.120		
16,700.00	12,644.00	18,912.00	10,673.97	74.77	120.81	-0.841	-559.24	-301.56	4,811.68	4,737.19	74.50	64.589		
16,800.00	12,644.00	18,912.00	10,673.97	76.13	120.81	-0.841	-559.24	-301.56	4,903.09	4,828.87	74.22	66.061		
16,900.00	12,644.00	18,912.00	10,673.97	77.49	120.81	-0.841	-559.24	-301.56	4,994.82	4,920.86	73.96	67.534		
17,000.00	12,644.00	18,912.00	10,673.97	78.86	120.81	-0.841	-559.24	-301.56	5,086.86	5,013.15	73.71	69.008		
17,100.00	12,644.00	18,912.00	10,673.97	80.23	120.81	-0.841	-559.24	-301.56	5,179.20	5,105.72	73.48	70.484		
17,200.00	12,644.00	18,912.00	10,673.97	81.60	120.81	-0.841	-559.24	-301.56	5,271.82	5,198.56	73.26	71.959		
17,300.00	12,644.00	18,912.00	10,673.97	82.98	120.81	-0.841	-559.24	-301.56	5,364.71	5,291.65	73.05	73.435		
17,400.00	12,644.00	18,912.00	10,673.97	84.36	120.81	-0.841	-559.24	-301.56	5,457.84	5,384.98	72.86	74.910		
17,500.00	12,644.00	18,912.00	10,673.97	85.74	120.81	-0.841	-559.24	-301.56	5,551.22	5,478.54	72.67	76.384		
17,600.00	12,644.00	18,912.00	10,673.97	87.12	120.81	-0.841	-559.24	-301.56	5,644.82	5,572.32	72.50	77.858		
17,700.00	12,644.00	18,912.00	10,673.97	88.51	120.81	-0.841	-559.24	-301.56	5,738.64	5,666.30	72.34	79.329		
17,800.00	12,644.00	18,912.00	10,673.97	89.89	120.81	-0.841	-559.24	-301.56	5,832.66	5,760.47	72.19	80.799		
17,900.00	12,644.00	18,912.00	10,673.97	91.28	120.81	-0.841	-559.24	-301.56	5,926.88	5,854.83	72.05	82.266		
18,000.00	12,644.00	18,912.00	10,673.97	92.67	120.81	-0.841	-559.24	-301.56	6,021.28	5,949.37	71.91	83.731		
18,100.00	12,644.00	18,912.00	10,673.97	94.07	120.81	-0.841	-559.24	-301.56	6,115.86	6,044.08	71.79	85.193		
18,200.00	12,644.00	18,912.00	10,673.97	95.46	120.81	-0.841	-559.24	-301.56	6,210.62	6,138.94	71.67	86.652		
18,300.00	12,644.00	18,912.00	10,673.97	96.85	120.81	-0.841	-559.24	-301.56	6,305.53	6,233.96	71.57	88.108		
18,400.00	12,644.00	18,912.00	10,673.97	98.25	120.81	-0.841	-559.24	-301.56	6,400.60	6,329.13	71.47	89.561		
18,500.00	12,644.00	18,912.00	10,673.97	99.65	120.81	-0.841	-559.24	-301.56	6,495.82	6,424.44	71.37	91.010		
18,600.00	12,644.00	18,912.00	10,673.97	101.05	120.81	-0.841	-559.24	-301.56	6,591.18	6,519.89	71.29	92.455		
18,700.00	12,644.00	18,912.00	10,673.97	102.45	120.81	-0.841	-559.24	-301.56	6,686.67	6,615.46	71.21	93.896		
18,800.00	12,644.00	18,912.00	10,673.97	103.85	120.81	-0.841	-559.24	-301.56	6,782.29	6,711.15	71.14	95.333		
18,900.00	12,644.00	18,912.00	10,673.97	105.25	120.81	-0.841	-559.24	-301.56	6,878.04	6,806.96	71.08	96.765		
19,000.00	12,644.00	18,912.00	10,673.97	106.65	120.81	-0.841	-559.24	-301.56	6,973.91	6,902.89	71.02	98.193		
19,100.00	12,644.00	18,912.00	10,673.97	108.06	120.81	-0.841	-559.24	-301.56	7,069.89	6,998.92	70.97	99.617		
19,200.00	12,644.00	18,912.00	10,673.97	109.46	120.81	-0.841	-559.24	-301.56	7,165.99	7,095.06	70.93	101.035		
19,300.00	12,644.00	18,912.00	10,673.97	110.87	120.81	-0.841	-559.24	-301.56	7,262.19	7,191.30	70.89	102.449		
19,400.00	12,644.00	18,912.00	10,673.97	112.28	120.81	-0.841	-559.24	-301.56	7,358.48	7,287.63	70.85	103.857		
19,500.00	12,644.00	18,912.00	10,673.97	113.68	120.81	-0.841	-559.24	-301.56	7,454.88	7,384.06	70.82	105.261		
19,600.00	12,644.00	18,912.00	10,673.97	115.09	120.81	-0.841	-559.24	-301.56	7,551.37	7,480.57	70.80	106.659		
19,700.00	12,644.00	18,912.00	10,673.97	116.50	120.81	-0.841	-559.24	-301.56	7,647.95	7,577.17	70.78	108.052		
19,800.00	12,644.00	18,912.00	10,673.97	117.91	120.81	-0.841	-559.24	-301.56	7,744.62	7,673.85	70.77	109.439		
19,900.00	12,644.00	18,912.00	10,673.97	119.32	120.81	-0.841	-559.24	-301.56	7,841.37	7,770.61	70.76	110.821		
20,000.00	12,644.00	18,912.00	10,673.97	120.73	120.81	-0.841	-559.24	-301.56	7,938.20	7,867.45	70.75	112.197		
20,100.00	12,644.00	18,912.00	10,673.97	122.15	120.81	-0.841	-559.24	-301.56	8,035.11	7,964.36	70.75	113.567		
20,200.00	12,644.00	18,912.00	10,673.97	123.56	120.81	-0.841	-559.24	-301.56	8,132.10	8,061.34	70.76	114.932		
20,300.00	12,644.00	18,912.00	10,673.97	124.97	120.81	-0.841	-559.24	-301.56	8,229.15	8,158.39	70.76	116.290		
20,400.00	12,644.00	18,912.00	10,673.97	126.38	120.81	-0.841	-559.24	-301.56	8,326.28	8,255.50	70.78	117.643		
20,500.00	12,644.00	18,912.00	10,673.97	127.80	120.81	-0.841	-559.24	-301.56	8,423.47	8,352.68	70.79	118.990		
20,600.00	12,644.00	18,912.00	10,673.97	129.21	120.81	-0.841	-559.24	-301.56	8,520.73	8,449.92	70.81	120.331		
20,700.00	12,644.00	18,912.00	10,673.97	130.63	120.81	-0.841	-559.24	-301.56	8,618.05	8,547.22	70.83	121.666		
20,800.00	12,644.00	18,912.00	10,673.97	132.04	120.81	-0.841	-559.24	-301.56	8,715.43	8,644.57	70.86	122.995		
20,900.00	12,644.00	18,912.00	10,673.97	133.46	120.81	-0.841	-559.24	-301.56	8,812.87	8,741.98	70.89	124.317		
21,000.00	12,644.00	18,912.00	10,673.97	134.88	120.81	-0.841	-559.24	-301.56	8,910.37	8,839.45	70.92	125.634		
21,100.00	12,644.00	18,912.00	10,673.97	136.29	120.81	-0.841	-559.24	-301.56	9,007.92	8,936.96	70.96	126.944		

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 3 - Cattleman Fed Com 123H - OH / 69915 - Surveys (H&P 616)												Offset Site Error:	0.00 usft
Survey Program: 206-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		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)			
21,200.00	12,644.00	18,912.00	10,673.97	137.71	120.81	-0.841	-559.24	-301.56	9,105.53	9,034.53	71.00	128.248	
21,300.00	12,644.00	18,912.00	10,673.97	139.13	120.81	-0.841	-559.24	-301.56	9,203.18	9,132.14	71.04	129.546	
21,400.00	12,644.00	18,912.00	10,673.97	140.54	120.81	-0.841	-559.24	-301.56	9,300.89	9,229.80	71.09	130.837	
21,500.00	12,644.00	18,912.00	10,673.97	141.96	120.81	-0.841	-559.24	-301.56	9,398.64	9,327.51	71.14	132.122	
21,600.00	12,644.00	18,912.00	10,673.97	143.38	120.81	-0.841	-559.24	-301.56	9,496.45	9,425.26	71.19	133.401	
21,700.00	12,644.00	18,912.00	10,673.97	144.80	120.81	-0.841	-559.24	-301.56	9,594.29	9,523.05	71.24	134.673	
21,800.00	12,644.00	18,912.00	10,673.97	146.22	120.81	-0.841	-559.24	-301.56	9,692.18	9,620.88	71.30	135.939	
21,900.00	12,644.00	18,912.00	10,673.97	147.64	120.81	-0.841	-559.24	-301.56	9,790.12	9,718.76	71.36	137.198	
22,000.00	12,644.00	18,912.00	10,673.97	149.06	120.81	-0.841	-559.24	-301.56	9,888.09	9,816.67	71.42	138.452	
22,100.00	12,644.00	18,912.00	10,673.97	150.48	120.81	-0.841	-559.24	-301.56	9,986.11	9,914.62	71.48	139.698	
22,199.47	12,644.00	18,912.00	10,673.97	151.89	120.81	-0.841	-559.24	-301.56	10,083.64	10,012.09	71.55	140.932	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 3 - Cattleman Fed Com 213H - OH / 69914 - Surveys (H&P 616)													Offset Site Error: 0.00 usft
Survey Program: 177-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	51.18	2.18	1.00	1.05	-0.222	7,680.75	-29.81	7,680.80				
100.00	100.00	155.64	106.64	1.08	1.36	-0.219	7,680.69	-29.30	7,680.75	7,678.30	2.44	3,146.196	
200.00	200.00	254.64	205.64	1.60	1.92	-0.213	7,680.60	-28.52	7,680.66	7,677.17	3.49	2,199.921	
300.00	300.00	353.58	304.58	2.01	2.51	-0.208	7,680.54	-27.82	7,680.60	7,676.13	4.46	1,720.802	
400.00	400.00	453.38	404.37	2.35	3.06	-0.202	7,680.49	-27.09	7,680.54	7,675.21	5.33	1,442.126	
488.11	488.11	537.31	488.29	2.62	3.30	-0.198	7,680.46	-26.50	7,680.51	7,674.71	5.80	1,324.160	
500.00	500.00	547.93	498.92	2.65	3.33	-0.197	7,680.47	-26.43	7,680.51	7,674.65	5.86	1,310.893	
600.00	600.00	636.08	587.07	2.93	3.55	-0.193	7,680.55	-25.91	7,680.61	7,674.30	6.31	1,217.807	
700.00	700.00	732.88	683.86	3.18	3.77	-0.190	7,680.73	-25.49	7,680.79	7,674.05	6.74	1,139.359	
800.00	800.00	822.38	773.37	3.41	3.95	-0.189	7,680.98	-25.29	7,681.06	7,673.93	7.14	1,076.310	
900.00	900.00	910.79	861.78	3.64	4.11	-0.188	7,681.36	-25.22	7,681.50	7,673.98	7.52	1,021.782	
1,000.00	1,000.00	1,016.04	967.02	3.85	4.29	-0.188	7,681.85	-25.22	7,681.96	7,674.05	7.92	970.171	
1,100.00	1,100.00	1,121.86	1,072.84	4.05	4.44	-0.189	7,682.26	-25.34	7,682.35	7,674.05	8.30	926.004	
1,200.00	1,200.00	1,209.15	1,160.13	4.24	4.53	-0.191	7,682.60	-25.65	7,682.75	7,674.14	8.61	892.157	
1,300.00	1,300.00	1,347.61	1,298.59	4.43	4.68	-0.198	7,683.10	-26.57	7,683.15	7,674.14	9.01	852.853	
1,400.00	1,400.00	1,461.54	1,412.51	4.61	4.78	-0.201	7,682.97	-26.91	7,683.03	7,673.71	9.32	824.396	
1,500.00	1,500.00	1,553.03	1,504.00	4.78	4.87	-0.202	7,682.88	-27.02	7,682.93	7,673.32	9.60	800.184	
1,501.62	1,501.62	1,554.53	1,505.51	4.79	4.87	153.818	7,682.88	-27.02	7,682.93	7,673.32	9.61	799.797	
1,600.00	1,599.98	1,658.32	1,609.29	4.98	4.98	153.809	7,682.84	-27.28	7,684.46	7,674.55	9.90	775.959	
1,700.00	1,699.84	1,766.87	1,717.84	5.60	5.09	153.785	7,682.60	-27.58	7,688.93	7,678.37	10.56	728.185	
1,718.18	1,717.96	1,784.40	1,735.37	5.62	5.11	153.779	7,682.56	-27.61	7,690.08	7,679.49	10.59	726.179	
1,800.00	1,799.55	1,880.50	1,831.48	5.72	5.21	153.803	7,682.27	-27.65	7,695.42	7,684.63	10.79	713.012	
1,900.00	1,899.26	1,978.77	1,929.75	5.89	5.32	153.828	7,681.85	-27.59	7,701.83	7,690.76	11.07	695.829	
2,000.00	1,998.97	2,074.33	2,025.30	6.09	5.45	153.854	7,681.50	-27.22	7,708.30	7,696.93	11.37	678.093	
2,100.00	2,098.68	2,160.88	2,111.85	6.30	5.57	153.882	7,681.27	-26.47	7,714.87	7,703.20	11.67	660.945	
2,200.00	2,198.39	2,246.97	2,197.93	6.53	5.71	153.912	7,681.20	-25.32	7,721.62	7,709.63	11.99	643.976	
2,300.00	2,298.10	2,334.69	2,285.64	6.77	5.85	153.945	7,681.28	-23.81	7,728.55	7,716.23	12.32	627.277	
2,400.00	2,397.81	2,416.24	2,367.17	7.02	5.99	153.979	7,681.49	-21.90	7,735.65	7,723.00	12.65	611.398	
2,500.00	2,497.52	2,462.00	2,412.90	7.28	6.08	154.000	7,681.71	-20.59	7,743.11	7,730.17	12.95	598.017	
2,600.00	2,597.23	2,511.38	2,462.25	7.55	6.22	154.026	7,682.27	-18.78	7,751.24	7,737.96	13.28	583.654	
2,700.00	2,696.94	2,557.00	2,507.80	7.83	6.36	154.054	7,683.31	-16.55	7,760.26	7,746.65	13.61	570.052	
2,800.00	2,796.65	2,607.57	2,558.26	8.12	6.51	154.087	7,684.79	-13.69	7,769.95	7,755.99	13.96	556.469	
2,900.00	2,896.36	2,678.13	2,628.66	8.42	6.70	154.136	7,687.06	-9.36	7,780.03	7,765.69	14.34	542.430	
3,000.00	2,996.07	2,745.00	2,695.34	8.72	6.85	154.185	7,689.47	-4.99	7,790.52	7,775.82	14.70	529.854	
3,100.00	3,095.78	2,826.98	2,777.05	9.03	7.05	154.247	7,692.68	0.74	7,801.34	7,786.24	15.10	516.805	
3,200.00	3,195.49	2,897.43	2,847.25	9.34	7.22	154.303	7,695.64	6.02	7,812.44	7,796.96	15.48	504.752	
3,300.00	3,295.20	19,102.78	11,049.15	9.66	119.79	-138.402	-392.76	299.39	7,767.05	7,690.96	76.08	102.084	
3,400.00	3,394.91	19,104.10	11,049.10	9.98	119.81	-138.297	-394.08	299.38	7,667.42	7,591.21	76.21	100.610	
3,500.00	3,494.62	19,105.45	11,049.06	10.30	119.83	-138.190	-395.42	299.38	7,567.80	7,491.46	76.34	99.137	
3,600.00	3,594.33	19,106.82	11,049.01	10.63	119.85	-138.081	-396.79	299.37	7,468.19	7,391.72	76.47	97.665	
3,700.00	3,694.04	19,108.21	11,048.96	10.96	119.87	-137.970	-398.18	299.36	7,368.59	7,291.99	76.60	96.196	
3,800.00	3,793.75	19,109.62	11,048.91	11.29	119.89	-137.857	-399.59	299.35	7,269.00	7,192.26	76.74	94.728	
3,900.00	3,893.47	19,111.05	11,048.86	11.63	119.91	-137.742	-401.02	299.34	7,169.42	7,092.55	76.87	93.263	
4,000.00	3,993.18	19,112.51	11,048.81	11.97	119.93	-137.625	-402.48	299.33	7,069.85	6,992.84	77.01	91.800	
4,100.00	4,092.89	19,113.99	11,048.76	12.31	119.95	-137.506	-403.96	299.32	6,970.29	6,893.14	77.16	90.339	
4,200.00	4,192.60	19,115.50	11,048.71	12.65	119.97	-137.384	-405.47	299.31	6,870.75	6,793.45	77.30	88.881	
4,300.00	4,292.31	19,117.04	11,048.66	13.00	119.99	-137.260	-407.00	299.30	6,771.22	6,693.77	77.45	87.425	
4,400.00	4,392.02	19,118.60	11,048.61	13.34	120.01	-137.134	-408.56	299.29	6,671.70	6,594.10	77.60	85.972	
4,500.00	4,491.73	19,120.18	11,048.56	13.69	120.03	-137.006	-410.15	299.28	6,572.20	6,494.44	77.76	84.522	
4,600.00	4,591.44	19,121.80	11,048.51	14.04	120.06	-136.875	-411.77	299.27	6,472.71	6,394.79	77.91	83.075	
4,700.00	4,691.15	19,123.44	11,048.46	14.39	120.08	-136.741	-413.41	299.26	6,373.23	6,295.16	78.07	81.631	
4,800.00	4,790.86	19,125.12	11,048.41	14.74	120.10	-136.605	-415.08	299.25	6,273.77	6,195.54	78.24	80.191	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 3 - Cattleman Fed Com 213H - OH / 69914 - Surveys (H&P 616)												Offset Site Error:	0.00 usft
Survey Program: 177-MWD+HRGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Offset												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre	Distance	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,900.00	4,890.57	19,126.82	11,048.35	15.10	120.13	-136.466	-416.78	299.24	6,174.33	6,095.93	78.40	78.753	
5,000.00	4,990.28	19,128.55	11,048.30	15.45	120.15	-136.325	-418.52	299.23	6,074.90	5,996.33	78.57	77.320	
5,100.00	5,089.99	19,130.32	11,048.25	15.81	120.18	-136.180	-420.28	299.21	5,975.49	5,896.75	78.74	75.889	
5,200.00	5,189.70	19,132.12	11,048.19	16.16	120.20	-136.033	-422.08	299.20	5,876.11	5,797.19	78.91	74.463	
5,300.00	5,289.41	19,133.95	11,048.14	16.52	120.23	-135.882	-423.91	299.19	5,776.74	5,697.65	79.09	73.040	
5,400.00	5,389.12	19,135.81	11,048.09	16.88	120.25	-135.729	-425.77	299.18	5,677.39	5,598.12	79.27	71.621	
5,500.00	5,488.83	19,183.00	11,046.94	17.24	120.91	-131.750	-472.94	298.83	5,578.45	5,498.62	79.83	69.882	
5,600.00	5,588.54	19,183.00	11,046.94	17.59	120.91	-131.750	-472.94	298.83	5,479.11	5,399.12	80.00	68.492	
5,700.00	5,688.25	19,183.00	11,046.94	17.95	120.91	-131.750	-472.94	298.83	5,379.81	5,299.64	80.17	67.106	
5,800.00	5,787.96	19,183.00	11,046.94	18.32	120.91	-131.750	-472.94	298.83	5,280.52	5,200.18	80.34	65.723	
5,900.00	5,887.67	19,183.00	11,046.94	18.68	120.91	-131.750	-472.94	298.83	5,181.27	5,100.75	80.52	64.345	
6,000.00	5,987.38	19,183.00	11,046.94	19.04	120.91	-131.750	-472.94	298.83	5,082.05	5,001.34	80.70	62.971	
6,100.00	6,087.09	19,183.00	11,046.94	19.40	120.91	-131.750	-472.94	298.83	4,982.85	4,901.96	80.89	61.601	
6,200.00	6,186.80	19,183.00	11,046.94	19.76	120.91	-131.750	-472.94	298.83	4,883.69	4,802.61	81.08	60.235	
6,300.00	6,286.51	19,183.00	11,046.94	20.13	120.91	-131.750	-472.94	298.83	4,784.57	4,703.30	81.27	58.874	
6,400.00	6,386.22	19,183.00	11,046.94	20.49	120.91	-131.750	-472.94	298.83	4,685.48	4,604.02	81.46	57.517	
6,500.00	6,485.93	19,183.00	11,046.94	20.86	120.91	-131.750	-472.94	298.83	4,586.43	4,504.77	81.66	56.165	
6,600.00	6,585.64	19,183.00	11,046.94	21.22	120.91	-131.750	-472.94	298.83	4,487.42	4,405.56	81.86	54.818	
6,700.00	6,685.35	19,183.00	11,046.94	21.59	120.91	-131.750	-472.94	298.83	4,388.46	4,306.39	82.07	53.475	
6,800.00	6,785.06	19,183.00	11,046.94	21.95	120.91	-131.750	-472.94	298.83	4,289.55	4,207.27	82.27	52.137	
6,900.00	6,884.77	19,183.00	11,046.94	22.32	120.91	-131.750	-472.94	298.83	4,190.68	4,108.20	82.49	50.804	
7,000.00	6,984.48	19,183.00	11,046.94	22.68	120.91	-131.750	-472.94	298.83	4,091.88	4,009.17	82.71	49.475	
7,100.00	7,084.19	19,183.00	11,046.94	23.05	120.91	-131.750	-472.94	298.83	3,993.13	3,910.20	82.93	48.152	
7,200.00	7,183.90	19,183.00	11,046.94	23.42	120.91	-131.750	-472.94	298.83	3,894.45	3,811.29	83.15	46.834	
7,300.00	7,283.61	19,183.00	11,046.94	23.78	120.91	-131.750	-472.94	298.83	3,795.83	3,712.44	83.39	45.521	
7,400.00	7,383.32	19,183.00	11,046.94	24.15	120.91	-131.750	-472.94	298.83	3,697.29	3,613.67	83.62	44.213	
7,500.00	7,483.03	19,186.54	11,046.87	24.52	120.96	-131.445	-476.48	298.80	3,598.83	3,514.93	83.90	42.896	
7,600.00	7,582.74	19,191.45	11,046.78	24.89	121.03	-131.019	-481.39	298.76	3,500.45	3,416.26	84.19	41.579	
7,700.00	7,682.45	19,196.37	11,046.68	25.25	121.10	-130.592	-486.31	298.72	3,402.16	3,317.67	84.49	40.269	
7,800.00	7,782.16	19,201.28	11,046.59	25.62	121.16	-130.162	-491.22	298.69	3,303.96	3,219.16	84.79	38.965	
7,900.00	7,881.87	19,206.20	11,046.49	25.99	121.23	-129.731	-496.14	298.65	3,205.86	3,120.75	85.11	37.668	
8,000.00	7,981.58	19,211.11	11,046.39	26.36	121.30	-129.299	-501.05	298.61	3,107.88	3,022.45	85.43	36.378	
8,100.00	8,081.29	19,216.03	11,046.30	26.73	121.37	-128.865	-505.96	298.57	3,010.03	2,924.26	85.77	35.094	
8,200.00	8,181.00	19,220.94	11,046.20	27.10	121.44	-128.429	-510.88	298.53	2,912.31	2,826.19	86.12	33.818	
8,300.00	8,280.71	19,225.86	11,046.11	27.47	121.51	-127.992	-515.79	298.49	2,814.74	2,728.26	86.48	32.548	
8,400.00	8,380.42	19,230.77	11,046.01	27.84	121.57	-127.553	-520.71	298.45	2,717.34	2,630.48	86.86	31.284	
8,500.00	8,480.13	19,235.69	11,045.91	28.21	121.64	-127.113	-525.62	298.42	2,620.13	2,532.87	87.26	30.028	
8,600.00	8,579.84	19,240.60	11,045.82	28.58	121.71	-126.672	-530.53	298.38	2,523.12	2,435.45	87.68	28.778	
8,700.00	8,679.55	19,245.52	11,045.72	28.95	121.78	-126.229	-535.45	298.34	2,426.35	2,338.23	88.12	27.535	
8,800.00	8,779.26	19,250.00	11,045.63	29.32	121.84	-125.824	-539.93	298.30	2,329.85	2,241.26	88.59	26.300	
8,900.00	8,878.97	19,250.00	11,045.63	29.69	121.84	-125.824	-539.93	298.30	2,233.64	2,144.58	89.06	25.081	
9,000.00	8,978.68	19,250.00	11,045.63	30.06	121.84	-125.824	-539.93	298.30	2,137.78	2,048.21	89.57	23.867	
9,100.00	9,078.39	19,250.00	11,045.63	30.43	121.84	-125.824	-539.93	298.30	2,042.32	1,952.19	90.13	22.659	
9,200.00	9,178.10	19,250.00	11,045.63	30.80	121.84	-125.824	-539.93	298.30	1,947.32	1,856.56	90.75	21.457	
9,300.00	9,277.81	19,250.00	11,045.63	31.17	121.84	-125.824	-539.93	298.30	1,852.84	1,761.39	91.45	20.261	
9,400.00	9,377.52	19,250.00	11,045.63	31.54	121.84	-125.824	-539.93	298.30	1,758.97	1,666.74	92.23	19.071	
9,500.00	9,477.23	19,250.00	11,045.63	31.91	121.84	-125.824	-539.93	298.30	1,665.82	1,572.70	93.12	17.888	
9,600.00	9,576.94	19,250.00	11,045.63	32.29	121.84	-125.824	-539.93	298.30	1,573.51	1,479.36	94.15	16.713	
9,700.00	9,676.65	19,250.00	11,045.63	32.66	121.84	-125.824	-539.93	298.30	1,482.19	1,386.85	95.34	15.547	
9,800.00	9,776.36	19,250.00	11,045.63	33.03	121.84	-125.824	-539.93	298.30	1,392.07	1,295.33	96.73	14.391	
9,900.00	9,876.07	19,250.00	11,045.63	33.40	121.84	-125.824	-539.93	298.30	1,303.39	1,205.00	98.38	13.248	
10,000.00	9,975.78	19,250.00	11,045.63	33.77	121.84	-125.824	-539.93	298.30	1,216.47	1,116.12	100.35	12.122	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 3 - Cattleman Fed Com 213H - OH / 69914 - Surveys (H&P 616)												Offset Site Error:	0.00 usft
Survey Program: 177-MWD+HRGM												Offset Well Error:	1.00 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,100.00	10,075.49	19,250.00	11,045.63	34.14	121.84	-125.824	-539.93	298.30	1,131.71	1,029.00	102.71	11.019	
10,200.00	10,175.20	19,250.00	11,045.63	34.52	121.84	-125.824	-539.93	298.30	1,049.63	944.09	105.54	9.945	
10,300.00	10,274.91	19,250.00	11,045.63	34.89	121.84	-125.824	-539.93	298.30	970.92	861.97	108.95	8.912	
10,400.00	10,374.62	19,250.00	11,045.63	35.26	121.84	-125.824	-539.93	298.30	896.47	783.44	113.03	7.932	
10,500.00	10,474.33	19,250.00	11,045.63	35.63	121.84	-125.824	-539.93	298.30	827.42	709.60	117.83	7.022	
10,600.00	10,574.04	19,250.00	11,045.63	36.01	121.84	-125.824	-539.93	298.30	765.24	641.91	123.33	6.205	
10,700.00	10,673.75	19,250.00	11,045.63	36.38	121.84	-125.824	-539.93	298.30	711.73	582.37	129.36	5.502	
10,800.00	10,773.46	19,250.00	11,045.63	36.75	121.84	-125.824	-539.93	298.30	668.98	533.46	135.51	4.937	
10,900.00	10,873.18	19,250.00	11,045.63	37.12	121.84	-125.824	-539.93	298.30	639.14	498.01	141.13	4.529	
11,000.00	10,972.89	19,250.00	11,045.63	37.50	121.84	-125.824	-539.93	298.30	624.07	478.67	145.40	4.292	
11,045.16	11,017.91	19,250.00	11,045.63	37.66	121.84	-125.824	-539.93	298.30	622.44	475.72	146.72	4.242 CC, ES	
11,100.00	11,072.60	19,250.00	11,045.63	37.87	121.84	-125.824	-539.93	298.30	624.85	477.13	147.72	4.230 SF	
11,200.00	11,172.31	19,250.00	11,045.63	38.24	121.84	-125.824	-539.93	298.30	641.40	493.52	147.88	4.337	
11,300.00	11,272.02	19,250.00	11,045.63	38.62	121.84	-125.824	-539.93	298.30	672.58	526.36	146.22	4.600	
11,381.30	11,353.08	19,250.00	11,045.63	38.92	121.84	-125.824	-539.93	298.30	707.40	563.45	143.95	4.914	
11,400.00	11,371.73	19,250.00	11,045.63	38.98	121.84	-125.991	-539.93	298.30	716.44	573.10	143.34	4.998	
11,500.00	11,471.59	19,250.00	11,045.63	39.34	121.84	-127.005	-539.93	298.30	769.73	629.90	139.83	5.505	
11,599.47	11,571.04	19,250.00	11,045.63	39.49	121.84	77.782	-539.93	298.30	829.74	693.67	136.07	6.098	
11,600.00	11,571.57	19,250.00	11,045.63	39.49	121.84	77.782	-539.93	298.30	830.08	694.02	136.05	6.101	
11,700.00	11,671.57	19,250.00	11,045.63	39.52	121.84	77.782	-539.93	298.30	896.78	764.41	132.37	6.775	
11,800.00	11,771.57	19,250.00	11,045.63	39.52	121.84	77.782	-539.93	298.30	969.23	840.17	129.05	7.510	
11,900.00	11,871.57	19,250.00	11,045.63	39.53	121.84	77.782	-539.93	298.30	1,046.22	920.08	126.15	8.294	
12,000.00	11,971.57	19,250.00	11,045.63	39.54	121.84	77.782	-539.93	298.30	1,126.84	1,003.19	123.65	9.113	
12,099.47	12,071.04	19,250.00	11,045.63	39.54	121.84	77.782	-539.93	298.30	1,209.91	1,088.36	121.55	9.954	
12,100.00	12,071.57	19,250.00	11,045.63	39.55	121.84	-101.582	-539.93	298.30	1,210.36	1,088.82	121.54	9.959	
12,150.00	12,121.50	19,250.00	11,045.63	39.65	121.84	-93.349	-539.93	298.30	1,253.19	1,132.56	120.63	10.389	
12,200.00	12,171.05	19,250.00	11,045.63	39.91	121.84	-84.556	-539.93	298.30	1,296.67	1,176.83	119.84	10.820	
12,250.00	12,219.84	19,250.00	11,045.63	40.20	121.84	-75.677	-539.93	298.30	1,340.40	1,221.25	119.15	11.250	
12,300.00	12,267.50	19,250.00	11,045.63	40.50	121.84	-67.201	-539.93	298.30	1,384.05	1,265.50	118.56	11.674	
12,350.00	12,313.66	19,250.00	11,045.63	40.80	121.84	-59.499	-539.93	298.30	1,427.31	1,309.27	118.04	12.092	
12,400.00	12,357.98	19,250.00	11,045.63	41.09	121.84	-52.755	-539.93	298.30	1,469.90	1,352.30	117.60	12.500	
12,450.00	12,400.11	19,250.00	11,045.63	41.38	121.84	-46.997	-539.93	298.30	1,511.56	1,394.35	117.21	12.896	
12,500.00	12,439.74	19,250.00	11,045.63	41.66	121.84	-42.150	-539.93	298.30	1,552.06	1,435.19	116.87	13.280	
12,550.00	12,476.56	19,250.00	11,045.63	41.92	121.84	-38.097	-539.93	298.30	1,591.20	1,474.63	116.57	13.650	
12,600.00	12,510.29	19,250.00	11,045.63	42.16	121.84	-34.714	-539.93	298.30	1,628.79	1,512.49	116.30	14.005	
12,650.00	12,540.68	19,250.00	11,045.63	42.39	121.84	-31.888	-539.93	298.30	1,664.65	1,548.60	116.05	14.344	
12,700.00	12,567.50	19,250.00	11,045.63	42.58	121.84	-29.523	-539.93	298.30	1,698.63	1,582.82	115.81	14.668	
12,750.00	12,590.54	19,250.00	11,045.63	42.76	121.84	-27.537	-539.93	298.30	1,730.59	1,615.02	115.57	14.975	
12,800.00	12,609.63	19,250.00	11,045.63	42.91	121.84	-25.868	-539.93	298.30	1,760.40	1,645.07	115.33	15.264	
12,850.00	12,624.61	19,250.00	11,045.63	43.03	121.84	-24.464	-539.93	298.30	1,787.95	1,672.87	115.08	15.536	
12,900.00	12,635.39	19,250.00	11,045.63	43.12	121.84	-23.283	-539.93	298.30	1,813.14	1,698.31	114.82	15.790	
12,950.00	12,641.87	19,250.00	11,045.63	43.19	121.84	-22.294	-539.93	298.30	1,835.87	1,721.32	114.55	16.026	
12,999.47	12,644.00	19,250.00	11,045.63	43.23	121.84	-21.479	-539.93	298.30	1,855.87	1,741.60	114.27	16.241	
13,000.00	12,644.00	19,250.00	11,045.63	43.24	121.84	-21.479	-539.93	298.30	1,856.07	1,741.80	114.27	16.243	
13,100.00	12,644.00	19,250.00	11,045.63	43.31	121.84	-21.479	-539.93	298.30	1,896.22	1,782.70	113.52	16.703	
13,200.00	12,644.00	19,250.00	11,045.63	43.39	121.84	-21.479	-539.93	298.30	1,940.70	1,828.16	112.54	17.245	
13,300.00	12,644.00	19,250.00	11,045.63	43.50	121.84	-21.479	-539.93	298.30	1,989.22	1,877.77	111.45	17.848	
13,400.00	12,644.00	19,250.00	11,045.63	43.63	121.84	-21.479	-539.93	298.30	2,041.48	1,931.20	110.29	18.511	
13,500.00	12,644.00	19,250.00	11,045.63	43.78	121.84	-21.479	-539.93	298.30	2,097.22	1,988.16	109.06	19.230	
13,600.00	12,644.00	19,250.00	11,045.63	43.96	121.84	-21.479	-539.93	298.30	2,156.15	2,048.35	107.80	20.002	
13,700.00	12,644.00	19,250.00	11,045.63	44.18	121.84	-21.479	-539.93	298.30	2,218.03	2,111.51	106.52	20.823	
13,800.00	12,644.00	19,250.00	11,045.63	44.44	121.84	-21.479	-539.93	298.30	2,282.61	2,177.39	105.23	21.693	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 3 - Cattleman Fed Com 213H - OH / 69914 - Surveys (H&P 616)												Offset Site Error:	0.00 usft
Survey Program: 177-MWD+HRGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
13,900.00	12,644.00	19,250.00	11,045.63	44.74	121.84	-21.479	-539.93	298.30	2,349.68	2,245.74	103.94	22.606	
14,000.00	12,644.00	19,250.00	11,045.63	45.11	121.84	-21.479	-539.93	298.30	2,419.02	2,316.35	102.67	23.562	
14,100.00	12,644.00	19,250.00	11,045.63	45.54	121.84	-21.479	-539.93	298.30	2,490.44	2,389.03	101.42	24.556	
14,200.00	12,644.00	19,250.00	11,045.63	46.05	121.84	-21.479	-539.93	298.30	2,563.78	2,463.59	100.19	25.588	
14,300.00	12,644.00	19,250.00	11,045.63	46.65	121.84	-21.479	-539.93	298.30	2,638.87	2,539.87	99.00	26.654	
14,400.00	12,644.00	19,250.00	11,045.63	47.33	121.84	-21.479	-539.93	298.30	2,715.57	2,617.72	97.85	27.752	
14,500.00	12,644.00	19,250.00	11,045.63	48.09	121.84	-21.479	-539.93	298.30	2,793.74	2,697.00	96.73	28.881	
14,600.00	12,644.00	19,250.00	11,045.63	48.94	121.84	-21.479	-539.93	298.30	2,873.26	2,777.61	95.66	30.038	
14,700.00	12,644.00	19,250.00	11,045.63	49.86	121.84	-21.479	-539.93	298.30	2,954.03	2,859.41	94.62	31.220	
14,800.00	12,644.00	19,250.00	11,045.63	50.85	121.84	-21.479	-539.93	298.30	3,035.94	2,942.32	93.62	32.428	
14,900.00	12,644.00	19,250.00	11,045.63	51.89	121.84	-21.479	-539.93	298.30	3,118.91	3,026.25	92.66	33.658	
15,000.00	12,644.00	19,250.00	11,045.63	52.99	121.84	-21.479	-539.93	298.30	3,202.86	3,111.11	91.75	34.910	
15,100.00	12,644.00	19,250.00	11,045.63	54.12	121.84	-21.479	-539.93	298.30	3,287.70	3,196.83	90.87	36.181	
15,200.00	12,644.00	19,250.00	11,045.63	55.29	121.84	-21.479	-539.93	298.30	3,373.37	3,283.34	90.03	37.471	
15,300.00	12,644.00	19,250.00	11,045.63	56.49	121.84	-21.479	-539.93	298.30	3,459.81	3,370.59	89.22	38.777	
15,400.00	12,644.00	19,250.00	11,045.63	57.72	121.84	-21.479	-539.93	298.30	3,546.96	3,458.51	88.45	40.099	
15,500.00	12,644.00	19,250.00	11,045.63	58.96	121.84	-21.479	-539.93	298.30	3,634.78	3,547.06	87.72	41.436	
15,600.00	12,644.00	19,250.00	11,045.63	60.22	121.84	-21.479	-539.93	298.30	3,723.21	3,636.19	87.02	42.786	
15,700.00	12,644.00	19,250.00	11,045.63	61.50	121.84	-21.479	-539.93	298.30	3,812.21	3,725.86	86.35	44.149	
15,800.00	12,644.00	19,250.00	11,045.63	62.79	121.84	-21.479	-539.93	298.30	3,901.74	3,816.03	85.71	45.523	
15,900.00	12,644.00	19,250.00	11,045.63	64.09	121.84	-21.479	-539.93	298.30	3,991.78	3,906.68	85.10	46.907	
16,000.00	12,644.00	19,250.00	11,045.63	65.40	121.84	-21.479	-539.93	298.30	4,082.27	3,997.75	84.52	48.300	
16,100.00	12,644.00	19,250.00	11,045.63	66.72	121.84	-21.479	-539.93	298.30	4,173.20	4,089.24	83.96	49.703	
16,200.00	12,644.00	19,250.00	11,045.63	68.04	121.84	-21.479	-539.93	298.30	4,264.54	4,181.10	83.43	51.113	
16,300.00	12,644.00	19,250.00	11,045.63	69.38	121.84	-21.479	-539.93	298.30	4,356.25	4,273.32	82.93	52.530	
16,400.00	12,644.00	19,250.00	11,045.63	70.72	121.84	-21.479	-539.93	298.30	4,448.32	4,365.88	82.45	53.954	
16,500.00	12,644.00	19,250.00	11,045.63	72.07	121.84	-21.479	-539.93	298.30	4,540.73	4,458.75	81.99	55.383	
16,600.00	12,644.00	19,250.00	11,045.63	73.42	121.84	-21.479	-539.93	298.30	4,633.46	4,551.91	81.55	56.818	
16,700.00	12,644.00	19,250.00	11,045.63	74.77	121.84	-21.479	-539.93	298.30	4,726.48	4,645.35	81.13	58.257	
16,800.00	12,644.00	19,250.00	11,045.63	76.13	121.84	-21.479	-539.93	298.30	4,819.78	4,739.04	80.73	59.700	
16,900.00	12,644.00	19,250.00	11,045.63	77.49	121.84	-21.479	-539.93	298.30	4,913.34	4,832.99	80.35	61.146	
17,000.00	12,644.00	19,250.00	11,045.63	78.86	121.84	-21.479	-539.93	298.30	5,007.15	4,927.16	79.99	62.595	
17,100.00	12,644.00	19,250.00	11,045.63	80.23	121.84	-21.479	-539.93	298.30	5,101.20	5,021.55	79.65	64.047	
17,200.00	12,644.00	19,250.00	11,045.63	81.60	121.84	-21.479	-539.93	298.30	5,195.47	5,116.15	79.32	65.500	
17,300.00	12,644.00	19,250.00	11,045.63	82.98	121.84	-21.479	-539.93	298.30	5,289.95	5,210.94	79.01	66.955	
17,400.00	12,644.00	19,250.00	11,045.63	84.36	121.84	-21.479	-539.93	298.30	5,384.63	5,305.92	78.71	68.411	
17,500.00	12,644.00	19,250.00	11,045.63	85.74	121.84	-21.479	-539.93	298.30	5,479.50	5,401.07	78.43	69.868	
17,600.00	12,644.00	19,250.00	11,045.63	87.12	121.84	-21.479	-539.93	298.30	5,574.55	5,496.39	78.16	71.325	
17,700.00	12,644.00	19,250.00	11,045.63	88.51	121.84	-21.479	-539.93	298.30	5,669.76	5,591.86	77.90	72.782	
17,800.00	12,644.00	19,250.00	11,045.63	89.89	121.84	-21.479	-539.93	298.30	5,765.15	5,687.49	77.66	74.238	
17,900.00	12,644.00	19,250.00	11,045.63	91.28	121.84	-21.479	-539.93	298.30	5,860.68	5,783.25	77.43	75.694	
18,000.00	12,644.00	19,250.00	11,045.63	92.67	121.84	-21.479	-539.93	298.30	5,956.36	5,879.15	77.21	77.149	
18,100.00	12,644.00	19,250.00	11,045.63	94.07	121.84	-21.479	-539.93	298.30	6,052.18	5,975.18	77.00	78.603	
18,200.00	12,644.00	19,250.00	11,045.63	95.46	121.84	-21.479	-539.93	298.30	6,148.13	6,071.34	76.80	80.055	
18,300.00	12,644.00	19,250.00	11,045.63	96.85	121.84	-21.479	-539.93	298.30	6,244.22	6,167.60	76.61	81.505	
18,400.00	12,644.00	19,250.00	11,045.63	98.25	121.84	-21.479	-539.93	298.30	6,340.42	6,263.98	76.43	82.954	
18,500.00	12,644.00	19,250.00	11,045.63	99.65	121.84	-21.479	-539.93	298.30	6,436.73	6,360.47	76.27	84.400	
18,600.00	12,644.00	19,250.00	11,045.63	101.05	121.84	-21.479	-539.93	298.30	6,533.16	6,457.06	76.11	85.843	
18,700.00	12,644.00	19,250.00	11,045.63	102.45	121.84	-21.479	-539.93	298.30	6,629.70	6,553.74	75.96	87.284	
18,800.00	12,644.00	19,250.00	11,045.63	103.85	121.84	-21.479	-539.93	298.30	6,726.33	6,650.52	75.81	88.722	
18,900.00	12,644.00	19,250.00	11,045.63	105.25	121.84	-21.479	-539.93	298.30	6,823.06	6,747.38	75.68	90.157	
19,000.00	12,644.00	19,250.00	11,045.63	106.65	121.84	-21.479	-539.93	298.30	6,919.89	6,844.34	75.55	91.588	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 3 - Cattleman Fed Com 213H - OH / 69914 - Surveys (H&P 616)													Offset Site Error:	0.00 usft
Survey Program:		177-MWD+HRGM <th colspan="4">Rule Assigned:</th> <th>Offset Well Error:</th> <td>1.00 usft</td>					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	12,644.00	19,250.00	11,045.63	108.06	121.84	-21.479	-539.93	298.30	7,016.80	6,941.37	75.44	93.016		
19,200.00	12,644.00	19,250.00	11,045.63	109.46	121.84	-21.479	-539.93	298.30	7,113.80	7,038.48	75.33	94.441		
19,300.00	12,644.00	19,250.00	11,045.63	110.87	121.84	-21.479	-539.93	298.30	7,210.89	7,135.66	75.22	95.861		
19,400.00	12,644.00	19,250.00	11,045.63	112.28	121.84	-21.479	-539.93	298.30	7,308.05	7,232.92	75.13	97.278		
19,500.00	12,644.00	19,250.00	11,045.63	113.68	121.84	-21.479	-539.93	298.30	7,405.28	7,330.25	75.04	98.691		
19,600.00	12,644.00	19,250.00	11,045.63	115.09	121.84	-21.479	-539.93	298.30	7,502.59	7,427.64	74.95	100.099		
19,700.00	12,644.00	19,250.00	11,045.63	116.50	121.84	-21.479	-539.93	298.30	7,599.97	7,525.09	74.87	101.503		
19,800.00	12,644.00	19,250.00	11,045.63	117.91	121.84	-21.479	-539.93	298.30	7,697.41	7,622.61	74.80	102.903		
19,900.00	12,644.00	19,250.00	11,045.63	119.32	121.84	-21.479	-539.93	298.30	7,794.93	7,720.19	74.74	104.298		
20,000.00	12,644.00	19,250.00	11,045.63	120.73	121.84	-21.479	-539.93	298.30	7,892.50	7,817.82	74.68	105.689		
20,100.00	12,644.00	19,250.00	11,045.63	122.15	121.84	-21.479	-539.93	298.30	7,990.13	7,915.51	74.62	107.075		
20,200.00	12,644.00	19,250.00	11,045.63	123.56	121.84	-21.479	-539.93	298.30	8,087.82	8,013.25	74.57	108.456		
20,300.00	12,644.00	19,250.00	11,045.63	124.97	121.84	-21.479	-539.93	298.30	8,185.57	8,111.04	74.53	109.832		
20,400.00	12,644.00	19,250.00	11,045.63	126.38	121.84	-21.479	-539.93	298.30	8,283.37	8,208.88	74.49	111.203		
20,500.00	12,644.00	19,250.00	11,045.63	127.80	121.84	-21.479	-539.93	298.30	8,381.22	8,306.77	74.45	112.568		
20,600.00	12,644.00	19,250.00	11,045.63	129.21	121.84	-21.479	-539.93	298.30	8,479.12	8,404.70	74.42	113.929		
20,700.00	12,644.00	19,250.00	11,045.63	130.63	121.84	-21.479	-539.93	298.30	8,577.07	8,502.67	74.40	115.284		
20,800.00	12,644.00	19,250.00	11,045.63	132.04	121.84	-21.479	-539.93	298.30	8,675.07	8,600.69	74.38	116.634		
20,900.00	12,644.00	19,250.00	11,045.63	133.46	121.84	-21.479	-539.93	298.30	8,773.11	8,698.75	74.36	117.979		
21,000.00	12,644.00	19,250.00	11,045.63	134.88	121.84	-21.479	-539.93	298.30	8,871.20	8,796.85	74.35	119.318		
21,100.00	12,644.00	19,250.00	11,045.63	136.29	121.84	-21.479	-539.93	298.30	8,969.33	8,894.99	74.34	120.652		
21,200.00	12,644.00	19,250.00	11,045.63	137.71	121.84	-21.479	-539.93	298.30	9,067.50	8,993.16	74.34	121.980		
21,300.00	12,644.00	19,250.00	11,045.63	139.13	121.84	-21.479	-539.93	298.30	9,165.71	9,091.37	74.34	123.302		
21,400.00	12,644.00	19,250.00	11,045.63	140.54	121.84	-21.479	-539.93	298.30	9,263.95	9,189.61	74.34	124.619		
21,500.00	12,644.00	19,250.00	11,045.63	141.96	121.84	-21.479	-539.93	298.30	9,362.24	9,287.89	74.34	125.930		
21,600.00	12,644.00	19,250.00	11,045.63	143.38	121.84	-21.479	-539.93	298.30	9,460.56	9,386.20	74.35	127.235		
21,700.00	12,644.00	19,250.00	11,045.63	144.80	121.84	-21.479	-539.93	298.30	9,558.91	9,484.54	74.37	128.535		
21,800.00	12,644.00	19,250.00	11,045.63	146.22	121.84	-21.479	-539.93	298.30	9,657.30	9,582.92	74.39	129.828		
21,900.00	12,644.00	19,250.00	11,045.63	147.64	121.84	-21.479	-539.93	298.30	9,755.72	9,681.32	74.41	131.116		
22,000.00	12,644.00	19,250.00	11,045.63	149.06	121.84	-21.479	-539.93	298.30	9,854.18	9,779.75	74.43	132.398		
22,100.00	12,644.00	19,250.00	11,045.63	150.48	121.84	-21.479	-539.93	298.30	9,952.66	9,878.21	74.45	133.674		
22,199.47	12,644.00	19,250.00	11,045.63	151.89	121.84	-21.479	-539.93	298.30	10,050.66	9,976.17	74.48	134.937		

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 4 - Cattleman Fed Com 114H - OH / 69918 - Surveys (H&P 656)													Offset Site Error: 0.00 usft
Survey Program: 175-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	61.90	20.90	1.00	1.06	6.884	7,816.86	943.75	7,873.66				
100.00	100.00	197.55	156.54	1.08	1.61	6.884	7,816.13	943.66	7,873.09	7,870.40	2.70	2,920.927	
200.00	200.00	287.41	246.40	1.60	2.39	6.884	7,815.55	943.59	7,872.44	7,868.45	3.99	1,972.458	
300.00	300.00	380.92	339.92	2.01	3.12	6.884	7,815.05	943.54	7,871.91	7,866.78	5.13	1,535.361	
400.00	400.00	469.33	428.32	2.35	3.34	6.888	7,814.54	943.95	7,871.40	7,865.71	5.69	1,384.124	
466.26	466.26	507.27	466.26	2.55	3.40	6.889	7,814.45	944.17	7,871.28	7,865.33	5.95	1,322.244	
500.00	500.00	538.00	496.99	2.65	3.46	6.890	7,814.47	944.32	7,871.33	7,865.22	6.11	1,288.558	
600.00	600.00	661.18	620.17	2.93	3.76	6.896	7,814.26	945.04	7,871.23	7,864.56	6.66	1,181.395	
700.00	700.00	743.69	702.68	3.18	4.10	6.899	7,814.08	945.53	7,871.08	7,863.84	7.24	1,087.562	
715.31	715.31	756.33	715.31	3.21	4.15	6.900	7,814.07	945.60	7,871.08	7,863.76	7.32	1,074.865	
800.00	800.00	823.95	782.94	3.41	4.40	6.902	7,814.10	945.94	7,871.16	7,863.41	7.75	1,015.031	
900.00	900.00	900.00	858.98	3.64	4.55	6.906	7,814.34	946.46	7,871.56	7,863.45	8.11	971.140	
1,000.00	1,000.00	991.22	950.20	3.85	4.69	6.911	7,814.83	947.16	7,872.17	7,863.74	8.43	933.760	
1,100.00	1,100.00	1,097.17	1,056.15	4.05	5.00	6.916	7,815.36	947.96	7,872.77	7,863.86	8.91	884.002	
1,200.00	1,200.00	1,236.91	1,195.88	4.24	5.36	6.924	7,815.75	949.10	7,873.17	7,863.77	9.40	837.622	
1,300.00	1,300.00	1,376.26	1,335.22	4.43	5.86	6.933	7,815.31	950.29	7,872.95	7,862.92	10.02	785.389	
1,400.00	1,400.00	1,494.71	1,453.66	4.61	6.34	6.944	7,814.41	951.67	7,872.33	7,861.70	10.63	740.901	
1,500.00	1,500.00	1,594.71	1,553.65	4.78	6.77	6.953	7,813.58	952.86	7,871.65	7,860.46	11.18	703.893	
1,520.65	1,520.65	1,615.36	1,574.30	4.82	6.86	160.974	7,813.41	953.10	7,871.58	7,860.28	11.30	696.693	
1,600.00	1,599.98	1,636.00	1,594.94	4.98	6.94	160.969	7,813.24	953.34	7,872.83	7,861.31	11.53	683.104	
1,700.00	1,699.84	1,723.95	1,682.88	5.60	7.21	160.954	7,812.91	954.34	7,877.59	7,865.27	12.33	639.048	
1,718.18	1,717.96	1,734.00	1,692.93	5.62	7.24	160.948	7,812.92	954.45	7,878.89	7,866.53	12.37	637.148	
1,800.00	1,799.55	1,779.21	1,738.13	5.72	7.38	160.960	7,813.11	954.95	7,885.23	7,872.65	12.58	626.644	
1,900.00	1,899.26	1,825.00	1,783.92	5.89	7.52	160.971	7,813.51	955.46	7,893.49	7,880.62	12.87	613.329	
2,000.00	1,998.97	1,918.01	1,876.92	6.09	7.84	160.995	7,814.68	956.59	7,902.09	7,888.74	13.34	592.149	
2,100.00	2,098.68	2,014.00	1,972.89	6.30	8.17	161.021	7,816.15	957.97	7,910.97	7,897.13	13.84	571.498	
2,200.00	2,198.39	2,093.77	2,052.63	6.53	8.44	161.044	7,817.46	959.36	7,919.98	7,905.69	14.30	553.985	
2,300.00	2,298.10	2,194.56	2,153.39	6.77	8.79	161.076	7,819.06	961.53	7,929.01	7,914.19	14.82	534.936	
2,400.00	2,397.81	2,268.45	2,227.24	7.02	9.04	161.102	7,820.28	963.40	7,938.18	7,922.90	15.27	519.699	
2,500.00	2,497.52	2,339.81	2,298.56	7.28	9.30	161.128	7,821.70	965.44	7,947.70	7,931.97	15.73	505.314	
2,600.00	2,597.23	2,426.32	2,385.00	7.55	9.60	161.162	7,823.68	968.19	7,957.54	7,941.31	16.24	490.056	
2,700.00	2,696.94	18,371.80	10,543.12	7.83	118.46	-132.461	-230.27	987.61	7,914.24	7,841.30	72.94	108.503	
2,800.00	2,796.65	18,375.31	10,543.05	8.12	118.51	-132.318	-233.77	987.60	7,815.70	7,742.60	73.11	106.907	
2,900.00	2,896.36	18,389.00	10,542.79	8.42	118.71	-131.755	-247.47	987.54	7,717.21	7,643.86	73.35	105.212	
3,000.00	2,996.07	18,389.00	10,542.79	8.72	118.71	-131.755	-247.47	987.54	7,618.74	7,545.24	73.50	103.657	
3,100.00	3,095.78	18,389.00	10,542.79	9.03	118.71	-131.755	-247.47	987.54	7,520.31	7,446.65	73.65	102.103	
3,200.00	3,195.49	18,389.00	10,542.79	9.34	118.71	-131.755	-247.47	987.54	7,421.92	7,348.10	73.81	100.550	
3,300.00	3,295.20	18,389.00	10,542.79	9.66	118.71	-131.755	-247.47	987.54	7,323.57	7,249.59	73.98	98.998	
3,400.00	3,394.91	18,389.00	10,542.79	9.98	118.71	-131.755	-247.47	987.54	7,225.27	7,151.12	74.15	97.448	
3,500.00	3,494.62	18,389.00	10,542.79	10.30	118.71	-131.755	-247.47	987.54	7,127.02	7,052.70	74.32	95.899	
3,600.00	3,594.33	18,389.00	10,542.79	10.63	118.71	-131.755	-247.47	987.54	7,028.81	6,954.32	74.50	94.352	
3,700.00	3,694.04	18,389.00	10,542.79	10.96	118.71	-131.755	-247.47	987.54	6,930.66	6,855.98	74.68	92.807	
3,800.00	3,793.75	18,389.00	10,542.79	11.29	118.71	-131.755	-247.47	987.54	6,832.56	6,757.69	74.87	91.265	
3,900.00	3,893.47	18,389.00	10,542.79	11.63	118.71	-131.755	-247.47	987.54	6,734.52	6,659.46	75.06	89.724	
4,000.00	3,993.18	18,389.00	10,542.79	11.97	118.71	-131.755	-247.47	987.54	6,636.53	6,561.28	75.26	88.187	
4,100.00	4,092.89	18,389.00	10,542.79	12.31	118.71	-131.755	-247.47	987.54	6,538.61	6,463.15	75.46	86.651	
4,200.00	4,192.60	18,389.00	10,542.79	12.65	118.71	-131.755	-247.47	987.54	6,440.75	6,365.08	75.67	85.119	
4,300.00	4,292.31	18,389.00	10,542.79	13.00	118.71	-131.755	-247.47	987.54	6,342.95	6,267.07	75.88	83.589	
4,400.00	4,392.02	18,389.00	10,542.79	13.34	118.71	-131.755	-247.47	987.54	6,245.23	6,169.13	76.10	82.063	
4,500.00	4,491.73	18,389.00	10,542.79	13.69	118.71	-131.755	-247.47	987.54	6,147.58	6,071.25	76.33	80.540	
4,600.00	4,591.44	18,389.00	10,542.79	14.04	118.71	-131.755	-247.47	987.54	6,050.01	5,973.44	76.56	79.020	
4,700.00	4,691.15	18,389.00	10,542.79	14.39	118.71	-131.755	-247.47	987.54	5,952.51	5,875.71	76.80	77.503	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 4 - Cattleman Fed Com 114H - OH / 69918 - Surveys (H&P 656)													Offset Site Error:	0.00 usft	
Survey Program:		175-MWD+HRGM		Offset		Semi Maior Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
4,800.00	4,790.86	18,389.00	10,542.79	14.74	118.71	-131.755	-247.47	987.54	5,855.11	5,778.06	77.05	75.990			
4,900.00	4,890.57	18,389.00	10,542.79	15.10	118.71	-131.755	-247.47	987.54	5,757.79	5,680.48	77.31	74.481			
5,000.00	4,990.28	18,389.00	10,542.79	15.45	118.71	-131.755	-247.47	987.54	5,660.56	5,582.99	77.57	72.976			
5,100.00	5,089.99	18,389.00	10,542.79	15.81	118.71	-131.755	-247.47	987.54	5,563.43	5,485.60	77.84	71.475			
5,200.00	5,189.70	18,389.00	10,542.79	16.16	118.71	-131.755	-247.47	987.54	5,466.41	5,388.29	78.12	69.978			
5,300.00	5,289.41	18,389.00	10,542.79	16.52	118.71	-131.755	-247.47	987.54	5,369.49	5,291.09	78.40	68.485			
5,400.00	5,389.12	18,389.00	10,542.79	16.88	118.71	-131.755	-247.47	987.54	5,272.69	5,193.99	78.70	66.997			
5,500.00	5,488.83	18,389.00	10,542.79	17.24	118.71	-131.755	-247.47	987.54	5,176.02	5,097.01	79.01	65.513			
5,600.00	5,588.54	18,389.00	10,542.79	17.59	118.71	-131.755	-247.47	987.54	5,079.47	5,000.14	79.32	64.034			
5,700.00	5,688.25	18,424.52	10,542.47	17.95	119.20	-130.282	-282.98	987.43	4,982.60	4,902.71	79.90	62.364			
5,800.00	5,787.96	18,426.49	10,542.47	18.32	119.23	-130.200	-284.95	987.42	4,886.28	4,806.03	80.25	60.889			
5,900.00	5,887.67	18,428.51	10,542.47	18.68	119.26	-130.115	-286.97	987.41	4,790.11	4,709.49	80.61	59.421			
6,000.00	5,987.38	18,430.60	10,542.48	19.04	119.29	-130.028	-289.06	987.41	4,694.09	4,613.10	80.99	57.958			
6,100.00	6,087.09	18,432.75	10,542.49	19.40	119.32	-129.938	-291.21	987.40	4,598.24	4,516.85	81.38	56.500			
6,200.00	6,186.80	18,434.97	10,542.50	19.76	119.35	-129.845	-293.43	987.39	4,502.56	4,420.77	81.79	55.049			
6,300.00	6,286.51	18,437.26	10,542.51	20.13	119.38	-129.749	-295.72	987.39	4,407.08	4,324.86	82.22	53.604			
6,400.00	6,386.22	18,439.63	10,542.53	20.49	119.42	-129.649	-298.09	987.38	4,311.79	4,229.13	82.66	52.165			
6,500.00	6,485.93	18,442.08	10,542.55	20.86	119.45	-129.547	-300.54	987.37	4,216.72	4,133.60	83.12	50.732			
6,600.00	6,585.64	18,444.61	10,542.58	21.22	119.49	-129.440	-303.07	987.36	4,121.88	4,038.28	83.60	49.306			
6,700.00	6,685.35	18,447.22	10,542.61	21.59	119.52	-129.330	-305.68	987.35	4,027.28	3,943.18	84.10	47.888			
6,800.00	6,785.06	18,449.93	10,542.64	21.95	119.56	-129.216	-308.39	987.34	3,932.94	3,848.32	84.62	46.476			
6,900.00	6,884.77	18,452.74	10,542.68	22.32	119.60	-129.098	-311.20	987.34	3,838.88	3,753.71	85.17	45.072			
7,000.00	6,984.48	18,484.00	10,543.40	22.68	120.04	-127.775	-342.45	987.24	3,745.44	3,659.51	85.93	43.588			
7,100.00	7,084.19	18,484.00	10,543.40	23.05	120.04	-127.775	-342.45	987.24	3,651.95	3,565.43	86.51	42.213			
7,200.00	7,183.90	18,484.00	10,543.40	23.42	120.04	-127.775	-342.45	987.24	3,558.81	3,471.68	87.13	40.845			
7,300.00	7,283.61	18,484.00	10,543.40	23.78	120.04	-127.775	-342.45	987.24	3,466.06	3,378.28	87.78	39.487			
7,400.00	7,383.32	18,484.00	10,543.40	24.15	120.04	-127.775	-342.45	987.24	3,373.72	3,285.25	88.46	38.137			
7,500.00	7,483.03	18,484.00	10,543.40	24.52	120.04	-127.775	-342.45	987.24	3,281.83	3,192.64	89.19	36.797			
7,600.00	7,582.74	18,484.00	10,543.40	24.89	120.04	-127.775	-342.45	987.24	3,190.42	3,100.47	89.96	35.466			
7,700.00	7,682.45	18,484.00	10,543.40	25.25	120.04	-127.775	-342.45	987.24	3,099.55	3,008.78	90.77	34.147			
7,800.00	7,782.16	18,484.00	10,543.40	25.62	120.04	-127.775	-342.45	987.24	3,009.26	2,917.62	91.64	32.838			
7,900.00	7,881.87	18,493.80	10,543.70	25.99	120.18	-127.358	-352.25	987.21	2,919.58	2,826.96	92.62	31.522			
8,000.00	7,981.58	18,505.30	10,544.05	26.36	120.34	-126.867	-363.74	987.17	2,830.56	2,736.89	93.67	30.217			
8,100.00	8,081.29	18,516.65	10,544.39	26.73	120.50	-126.380	-375.09	987.13	2,742.26	2,647.46	94.79	28.929			
8,200.00	8,181.00	18,527.88	10,544.72	27.10	120.66	-125.897	-386.31	987.10	2,654.74	2,558.76	95.98	27.659			
8,300.00	8,280.71	18,538.97	10,545.04	27.47	120.81	-125.419	-397.39	987.06	2,568.09	2,470.84	97.25	26.408			
8,400.00	8,380.42	18,549.93	10,545.35	27.84	120.96	-124.945	-408.35	987.02	2,482.40	2,383.80	98.60	25.177			
8,500.00	8,480.13	18,560.76	10,545.64	28.21	121.12	-124.475	-419.18	986.98	2,397.78	2,297.73	100.04	23.967			
8,600.00	8,579.84	18,571.47	10,545.93	28.58	121.27	-124.010	-429.89	986.95	2,314.33	2,212.75	101.59	22.781			
8,700.00	8,679.55	18,582.06	10,546.21	28.95	121.42	-123.549	-440.47	986.91	2,232.21	2,128.97	103.24	21.621			
8,800.00	8,779.26	18,591.12	10,546.45	29.32	121.54	-123.153	-449.53	986.88	2,151.55	2,046.55	105.01	20.490			
8,900.00	8,878.97	18,600.60	10,546.70	29.69	121.68	-122.739	-459.00	986.85	2,072.54	1,965.65	106.90	19.388			
9,000.00	8,978.68	18,610.07	10,546.95	30.06	121.81	-122.323	-468.47	986.81	1,995.37	1,886.45	108.92	18.319			
9,100.00	9,078.39	18,619.55	10,547.20	30.43	121.94	-121.908	-477.95	986.78	1,920.26	1,809.17	111.09	17.286			
9,200.00	9,178.10	18,629.02	10,547.45	30.80	122.08	-121.491	-487.42	986.75	1,847.46	1,734.07	113.39	16.292			
9,300.00	9,277.81	18,638.50	10,547.70	31.17	122.21	-121.074	-496.89	986.71	1,777.26	1,661.42	115.84	15.342			
9,400.00	9,377.52	18,647.98	10,547.95	31.54	122.34	-120.656	-506.37	986.68	1,709.97	1,591.54	118.43	14.439			
9,500.00	9,477.23	18,657.45	10,548.20	31.91	122.48	-120.238	-515.84	986.65	1,645.96	1,524.81	121.14	13.587			
9,600.00	9,576.94	18,666.93	10,548.45	32.29	122.61	-119.820	-525.31	986.61	1,585.61	1,461.65	123.96	12.791			
9,700.00	9,676.65	18,676.41	10,548.70	32.66	122.74	-119.401	-534.78	986.58	1,529.37	1,402.52	126.86	12.056			
9,800.00	9,776.36	18,685.88	10,548.95	33.03	122.88	-118.981	-544.26	986.55	1,477.71	1,347.92	129.79	11.386			
9,900.00	9,876.07	18,695.36	10,549.20	33.40	123.01	-118.561	-553.73	986.51	1,431.11	1,298.42	132.69	10.785			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 4 - Cattleman Fed Com 114H - OH / 69918 - Surveys (H&P 656)													Offset Site Error:	0.00 usft	
Survey Program:		175-MWD+HRGM		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
10,000.00	9,975.78	18,704.83	10,549.45	33.77	123.14	-118.141	-563.20	986.48	1,390.09	1,254.58	135.51	10.258			
10,100.00	10,075.49	18,705.00	10,549.45	34.14	123.15	-118.134	-563.37	986.48	1,355.19	1,217.05	138.14	9.810			
10,200.00	10,175.20	18,705.00	10,549.45	34.52	123.15	-118.134	-563.37	986.48	1,326.92	1,186.40	140.52	9.443			
10,300.00	10,274.91	18,705.00	10,549.45	34.89	123.15	-118.134	-563.37	986.48	1,305.72	1,163.16	142.56	9.159			
10,400.00	10,374.62	18,705.00	10,549.45	35.26	123.15	-118.134	-563.37	986.48	1,291.93	1,147.76	144.17	8.961			
10,500.00	10,474.33	18,705.00	10,549.45	35.63	123.15	-118.134	-563.37	986.48	1,285.79	1,140.48	145.31	8.848			
10,529.08	10,503.33	18,705.00	10,549.45	35.74	123.15	-118.134	-563.37	986.48	1,285.47	1,139.92	145.55	8.832 CC, ES			
10,600.00	10,574.04	18,705.00	10,549.45	36.01	123.15	-118.134	-563.37	986.48	1,287.42	1,141.48	145.94	8.822 SF			
10,700.00	10,673.75	18,705.00	10,549.45	36.38	123.15	-118.134	-563.37	986.48	1,296.78	1,150.73	146.05	8.879			
10,800.00	10,773.46	18,705.00	10,549.45	36.75	123.15	-118.134	-563.37	986.48	1,313.70	1,168.03	145.68	9.018			
10,900.00	10,873.18	18,705.00	10,549.45	37.12	123.15	-118.134	-563.37	986.48	1,337.91	1,193.04	144.87	9.235			
11,000.00	10,972.89	18,705.00	10,549.45	37.50	123.15	-118.134	-563.37	986.48	1,369.01	1,225.31	143.70	9.527			
11,100.00	11,072.60	18,705.00	10,549.45	37.87	123.15	-118.134	-563.37	986.48	1,406.54	1,264.29	142.25	9.888			
11,200.00	11,172.31	18,705.00	10,549.45	38.24	123.15	-118.134	-563.37	986.48	1,450.02	1,309.42	140.60	10.313			
11,300.00	11,272.02	18,705.00	10,549.45	38.62	123.15	-118.134	-563.37	986.48	1,498.91	1,360.08	138.83	10.797			
11,381.30	11,353.08	18,705.00	10,549.45	38.92	123.15	-118.134	-563.37	986.48	1,542.30	1,404.97	137.33	11.230			
11,400.00	11,371.73	18,705.00	10,549.45	38.98	123.15	-118.354	-563.37	986.48	1,552.69	1,415.70	136.98	11.335			
11,500.00	11,471.59	18,705.00	10,549.45	39.34	123.15	-119.578	-563.37	986.48	1,609.99	1,474.89	135.10	11.917			
11,599.47	11,571.04	18,705.00	10,549.45	39.49	123.15	85.115	-563.37	986.48	1,669.64	1,536.49	133.15	12.539			
11,600.00	11,571.57	18,705.00	10,549.45	39.49	123.15	85.115	-563.37	986.48	1,669.96	1,536.82	133.14	12.543			
11,700.00	11,671.57	18,705.00	10,549.45	39.52	123.15	85.115	-563.37	986.48	1,732.97	1,601.78	131.20	13.209			
11,800.00	11,771.57	18,705.00	10,549.45	39.52	123.15	85.115	-563.37	986.48	1,799.34	1,669.98	129.36	13.910			
11,900.00	11,871.57	18,705.00	10,549.45	39.53	123.15	85.115	-563.37	986.48	1,868.70	1,741.06	127.64	14.640			
12,000.00	11,971.57	18,705.00	10,549.45	39.54	123.15	85.115	-563.37	986.48	1,940.74	1,814.69	126.05	15.396			
12,099.47	12,071.04	18,705.00	10,549.45	39.54	123.15	85.115	-563.37	986.48	2,014.77	1,890.16	124.60	16.169			
12,100.00	12,071.57	18,705.00	10,549.45	39.55	123.15	-94.271	-563.37	986.48	2,015.17	1,890.57	124.60	16.174			
12,150.00	12,121.50	18,705.00	10,549.45	39.65	123.15	-88.396	-563.37	986.48	2,053.25	1,929.33	123.93	16.568			
12,200.00	12,171.05	18,705.00	10,549.45	39.91	123.15	-82.380	-563.37	986.48	2,091.76	1,968.45	123.31	16.963			
12,250.00	12,219.84	18,705.00	10,549.45	40.20	123.15	-76.403	-563.37	986.48	2,130.39	2,007.65	122.75	17.356			
12,300.00	12,267.50	18,705.00	10,549.45	40.50	123.15	-70.638	-563.37	986.48	2,168.84	2,046.62	122.23	17.745			
12,350.00	12,313.66	18,705.00	10,549.45	40.80	123.15	-65.222	-563.37	986.48	2,206.84	2,085.09	121.75	18.126			
12,400.00	12,357.98	18,705.00	10,549.45	41.09	123.15	-60.249	-563.37	986.48	2,244.13	2,122.81	121.32	18.498			
12,450.00	12,400.11	18,705.00	10,549.45	41.38	123.15	-55.764	-563.37	986.48	2,280.46	2,159.54	120.92	18.859			
12,500.00	12,439.74	18,705.00	10,549.45	41.66	123.15	-51.776	-563.37	986.48	2,315.62	2,195.06	120.56	19.207			
12,550.00	12,476.56	18,705.00	10,549.45	41.92	123.15	-48.267	-563.37	986.48	2,349.39	2,229.16	120.23	19.541			
12,600.00	12,510.29	18,705.00	10,549.45	42.16	123.15	-45.204	-563.37	986.48	2,381.58	2,261.65	119.93	19.859			
12,650.00	12,540.68	18,705.00	10,549.45	42.39	123.15	-42.545	-563.37	986.48	2,412.01	2,292.36	119.65	20.159			
12,700.00	12,567.50	18,705.00	10,549.45	42.58	123.15	-40.249	-563.37	986.48	2,440.52	2,321.13	119.39	20.442			
12,750.00	12,590.54	18,705.00	10,549.45	42.76	123.15	-38.276	-563.37	986.48	2,466.97	2,347.82	119.15	20.704			
12,800.00	12,609.63	18,705.00	10,549.45	42.91	123.15	-36.590	-563.37	986.48	2,491.22	2,372.29	118.93	20.947			
12,850.00	12,624.61	18,705.00	10,549.45	43.03	123.15	-35.160	-563.37	986.48	2,513.15	2,394.43	118.72	21.169			
12,900.00	12,635.39	18,705.00	10,549.45	43.12	123.15	-33.957	-563.37	986.48	2,532.67	2,414.14	118.52	21.368			
12,950.00	12,641.87	18,705.00	10,549.45	43.19	123.15	-32.960	-563.37	986.48	2,549.67	2,431.32	118.34	21.545			
12,999.47	12,644.00	18,705.00	10,549.45	43.23	123.15	-32.158	-563.37	986.48	2,563.94	2,445.77	118.17	21.697			
13,000.00	12,644.00	18,705.00	10,549.45	43.24	123.15	-32.158	-563.37	986.48	2,564.08	2,445.91	118.17	21.699			
13,100.00	12,644.00	18,705.00	10,549.45	43.31	123.15	-32.158	-563.37	986.48	2,592.13	2,474.41	117.72	22.020			
13,200.00	12,644.00	18,705.00	10,549.45	43.39	123.15	-32.158	-563.37	986.48	2,623.70	2,506.62	117.07	22.411			
13,300.00	12,644.00	18,705.00	10,549.45	43.50	123.15	-32.158	-563.37	986.48	2,658.65	2,542.30	116.35	22.850			
13,400.00	12,644.00	18,705.00	10,549.45	43.63	123.15	-32.158	-563.37	986.48	2,696.86	2,581.30	115.56	23.337			
13,500.00	12,644.00	18,705.00	10,549.45	43.78	123.15	-32.158	-563.37	986.48	2,738.20	2,623.48	114.71	23.870			
13,600.00	12,644.00	18,705.00	10,549.45	43.96	123.15	-32.158	-563.37	986.48	2,782.51	2,668.70	113.81	24.448			
13,700.00	12,644.00	18,705.00	10,549.45	44.18	123.15	-32.158	-563.37	986.48	2,829.67	2,716.80	112.87	25.070			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 4 - Cattleman Fed Com 114H - OH / 69918 - Surveys (H&P 656)												Offset Site Error:	0.00 usft		
Survey Program:		175-MWD+HRGM		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
13,800.00	12,644.00	18,705.00	10,549.45	44.44	123.15	-32.158	-563.37	986.48	2,879.52	2,767.63	111.89	25.734			
13,900.00	12,644.00	18,705.00	10,549.45	44.74	123.15	-32.158	-563.37	986.48	2,931.95	2,821.05	110.89	26.439			
14,000.00	12,644.00	18,705.00	10,549.45	45.11	123.15	-32.158	-563.37	986.48	2,986.80	2,876.92	109.87	27.184			
14,100.00	12,644.00	18,705.00	10,549.45	45.54	123.15	-32.158	-563.37	986.48	3,043.95	2,935.10	108.84	27.967			
14,200.00	12,644.00	18,705.00	10,549.45	46.05	123.15	-32.158	-563.37	986.48	3,103.26	2,995.46	107.81	28.786			
14,300.00	12,644.00	18,705.00	10,549.45	46.65	123.15	-32.158	-563.37	986.48	3,164.63	3,057.86	106.77	29.640			
14,400.00	12,644.00	18,705.00	10,549.45	47.33	123.15	-32.158	-563.37	986.48	3,227.93	3,122.20	105.74	30.528			
14,500.00	12,644.00	18,705.00	10,549.45	48.09	123.15	-32.158	-563.37	986.48	3,293.05	3,188.34	104.71	31.449			
14,600.00	12,644.00	18,705.00	10,549.45	48.94	123.15	-32.158	-563.37	986.48	3,359.89	3,256.19	103.70	32.400			
14,700.00	12,644.00	18,705.00	10,549.45	49.86	123.15	-32.158	-563.37	986.48	3,428.34	3,325.63	102.70	33.381			
14,800.00	12,644.00	18,705.00	10,549.45	50.85	123.15	-32.158	-563.37	986.48	3,498.30	3,396.58	101.72	34.390			
14,900.00	12,644.00	18,705.00	10,549.45	51.89	123.15	-32.158	-563.37	986.48	3,569.70	3,468.94	100.76	35.426			
15,000.00	12,644.00	18,705.00	10,549.45	52.99	123.15	-32.158	-563.37	986.48	3,642.45	3,542.62	99.83	36.488			
15,100.00	12,644.00	18,705.00	10,549.45	54.12	123.15	-32.158	-563.37	986.48	3,716.46	3,617.55	98.91	37.574			
15,200.00	12,644.00	18,705.00	10,549.45	55.29	123.15	-32.158	-563.37	986.48	3,791.66	3,693.64	98.02	38.682			
15,300.00	12,644.00	18,705.00	10,549.45	56.49	123.15	-32.158	-563.37	986.48	3,867.99	3,770.84	97.15	39.813			
15,400.00	12,644.00	18,705.00	10,549.45	57.72	123.15	-32.158	-563.37	986.48	3,945.38	3,849.07	96.31	40.964			
15,500.00	12,644.00	18,705.00	10,549.45	58.96	123.15	-32.158	-563.37	986.48	4,023.76	3,928.26	95.50	42.135			
15,600.00	12,644.00	18,705.00	10,549.45	60.22	123.15	-32.158	-563.37	986.48	4,103.09	4,008.38	94.71	43.324			
15,700.00	12,644.00	18,705.00	10,549.45	61.50	123.15	-32.158	-563.37	986.48	4,183.30	4,089.35	93.94	44.530			
15,800.00	12,644.00	18,705.00	10,549.45	62.79	123.15	-32.158	-563.37	986.48	4,264.34	4,171.14	93.20	45.752			
15,900.00	12,644.00	18,705.00	10,549.45	64.09	123.15	-32.158	-563.37	986.48	4,346.18	4,253.69	92.49	46.990			
16,000.00	12,644.00	18,705.00	10,549.45	65.40	123.15	-32.158	-563.37	986.48	4,428.76	4,336.96	91.80	48.242			
16,100.00	12,644.00	18,705.00	10,549.45	66.72	123.15	-32.158	-563.37	986.48	4,512.04	4,420.91	91.14	49.508			
16,200.00	12,644.00	18,705.00	10,549.45	68.04	123.15	-32.158	-563.37	986.48	4,596.00	4,505.50	90.50	50.786			
16,300.00	12,644.00	18,705.00	10,549.45	69.38	123.15	-32.158	-563.37	986.48	4,680.58	4,590.70	89.88	52.075			
16,400.00	12,644.00	18,705.00	10,549.45	70.72	123.15	-32.158	-563.37	986.48	4,765.76	4,676.48	89.29	53.376			
16,500.00	12,644.00	18,705.00	10,549.45	72.07	123.15	-32.158	-563.37	986.48	4,851.51	4,762.79	88.72	54.686			
16,600.00	12,644.00	18,705.00	10,549.45	73.42	123.15	-32.158	-563.37	986.48	4,937.79	4,849.63	88.17	56.005			
16,700.00	12,644.00	18,705.00	10,549.45	74.77	123.15	-32.158	-563.37	986.48	5,024.58	4,936.94	87.64	57.333			
16,800.00	12,644.00	18,705.00	10,549.45	76.13	123.15	-32.158	-563.37	986.48	5,111.86	5,024.73	87.13	58.669			
16,900.00	12,644.00	18,705.00	10,549.45	77.49	123.15	-32.158	-563.37	986.48	5,199.59	5,112.95	86.64	60.012			
17,000.00	12,644.00	18,705.00	10,549.45	78.86	123.15	-32.158	-563.37	986.48	5,287.76	5,201.58	86.17	61.361			
17,100.00	12,644.00	18,705.00	10,549.45	80.23	123.15	-32.158	-563.37	986.48	5,376.34	5,290.61	85.72	62.716			
17,200.00	12,644.00	18,705.00	10,549.45	81.60	123.15	-32.158	-563.37	986.48	5,465.32	5,380.02	85.29	64.076			
17,300.00	12,644.00	18,705.00	10,549.45	82.98	123.15	-32.158	-563.37	986.48	5,554.67	5,469.79	84.88	65.441			
17,400.00	12,644.00	18,705.00	10,549.45	84.36	123.15	-32.158	-563.37	986.48	5,644.37	5,559.89	84.48	66.810			
17,500.00	12,644.00	18,705.00	10,549.45	85.74	123.15	-32.158	-563.37	986.48	5,734.42	5,650.32	84.10	68.183			
17,600.00	12,644.00	18,705.00	10,549.45	87.12	123.15	-32.158	-563.37	986.48	5,824.80	5,741.06	83.74	69.558			
17,700.00	12,644.00	18,705.00	10,549.45	88.51	123.15	-32.158	-563.37	986.48	5,915.48	5,832.09	83.39	70.936			
17,800.00	12,644.00	18,705.00	10,549.45	89.89	123.15	-32.158	-563.37	986.48	6,006.46	5,923.40	83.06	72.317			
17,900.00	12,644.00	18,705.00	10,549.45	91.28	123.15	-32.158	-563.37	986.48	6,097.72	6,014.98	82.74	73.699			
18,000.00	12,644.00	18,705.00	10,549.45	92.67	123.15	-32.158	-563.37	986.48	6,189.25	6,106.82	82.43	75.082			
18,100.00	12,644.00	18,705.00	10,549.45	94.07	123.15	-32.158	-563.37	986.48	6,281.04	6,198.90	82.14	76.466			
18,200.00	12,644.00	18,705.00	10,549.45	95.46	123.15	-32.158	-563.37	986.48	6,373.08	6,291.22	81.86	77.851			
18,300.00	12,644.00	18,705.00	10,549.45	96.85	123.15	-32.158	-563.37	986.48	6,465.35	6,383.76	81.60	79.235			
18,400.00	12,644.00	18,705.00	10,549.45	98.25	123.15	-32.158	-563.37	986.48	6,557.85	6,476.51	81.34	80.620			
18,500.00	12,644.00	18,705.00	10,549.45	99.65	123.15	-32.158	-563.37	986.48	6,650.57	6,569.47	81.10	82.004			
18,600.00	12,644.00	18,705.00	10,549.45	101.05	123.15	-32.158	-563.37	986.48	6,743.50	6,662.63	80.87	83.387			
18,700.00	12,644.00	18,705.00	10,549.45	102.45	123.15	-32.158	-563.37	986.48	6,836.62	6,755.97	80.65	84.768			
18,800.00	12,644.00	18,705.00	10,549.45	103.85	123.15	-32.158	-563.37	986.48	6,929.94	6,849.50	80.44	86.149			
18,900.00	12,644.00	18,705.00	10,549.45	105.25	123.15	-32.158	-563.37	986.48	7,023.44	6,943.20	80.24	87.528			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 4 - Cattleman Fed Com 114H - OH / 69918 - Surveys (H&P 656)												Offset Site Error:	0.00 usft
Survey Program: 175-MWD+HRGM												Offset Well Error:	1.00 usft
Rule Assigned:													
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	Warning
19,000.00	12,644.00	18,705.00	10,549.45	106.65	123.15	-32.158	-563.37	986.48	7,117.11	7,037.06	80.05	88.904	
19,100.00	12,644.00	18,705.00	10,549.45	108.06	123.15	-32.158	-563.37	986.48	7,210.96	7,131.09	79.87	90.279	
19,200.00	12,644.00	18,705.00	10,549.45	109.46	123.15	-32.158	-563.37	986.48	7,304.97	7,225.27	79.70	91.651	
19,300.00	12,644.00	18,705.00	10,549.45	110.87	123.15	-32.158	-563.37	986.48	7,399.14	7,319.60	79.54	93.020	
19,400.00	12,644.00	18,705.00	10,549.45	112.28	123.15	-32.158	-563.37	986.48	7,493.46	7,414.07	79.39	94.387	
19,500.00	12,644.00	18,705.00	10,549.45	113.68	123.15	-32.158	-563.37	986.48	7,587.92	7,508.67	79.25	95.750	
19,600.00	12,644.00	18,705.00	10,549.45	115.09	123.15	-32.158	-563.37	986.48	7,682.53	7,603.41	79.11	97.110	
19,700.00	12,644.00	18,705.00	10,549.45	116.50	123.15	-32.158	-563.37	986.48	7,777.27	7,698.28	78.98	98.467	
19,800.00	12,644.00	18,705.00	10,549.45	117.91	123.15	-32.158	-563.37	986.48	7,872.13	7,793.27	78.86	99.820	
19,900.00	12,644.00	18,705.00	10,549.45	119.32	123.15	-32.158	-563.37	986.48	7,967.13	7,888.38	78.75	101.169	
20,000.00	12,644.00	18,705.00	10,549.45	120.73	123.15	-32.158	-563.37	986.48	8,062.25	7,983.60	78.64	102.514	
20,100.00	12,644.00	18,705.00	10,549.45	122.15	123.15	-32.158	-563.37	986.48	8,157.48	8,078.93	78.55	103.856	
20,200.00	12,644.00	18,705.00	10,549.45	123.56	123.15	-32.158	-563.37	986.48	8,252.82	8,174.37	78.45	105.193	
20,300.00	12,644.00	18,705.00	10,549.45	124.97	123.15	-32.158	-563.37	986.48	8,348.28	8,269.91	78.37	106.525	
20,400.00	12,644.00	18,705.00	10,549.45	126.38	123.15	-32.158	-563.37	986.48	8,443.84	8,365.55	78.29	107.854	
20,500.00	12,644.00	18,705.00	10,549.45	127.80	123.15	-32.158	-563.37	986.48	8,539.50	8,461.28	78.22	109.177	
20,600.00	12,644.00	18,705.00	10,549.45	129.21	123.15	-32.158	-563.37	986.48	8,635.26	8,557.11	78.15	110.496	
20,700.00	12,644.00	18,705.00	10,549.45	130.63	123.15	-32.158	-563.37	986.48	8,731.11	8,653.02	78.09	111.810	
20,800.00	12,644.00	18,705.00	10,549.45	132.04	123.15	-32.158	-563.37	986.48	8,827.06	8,749.03	78.03	113.119	
20,900.00	12,644.00	18,705.00	10,549.45	133.46	123.15	-32.158	-563.37	986.48	8,923.09	8,845.11	77.98	114.424	
21,000.00	12,644.00	18,705.00	10,549.45	134.88	123.15	-32.158	-563.37	986.48	9,019.22	8,941.28	77.94	115.723	
21,100.00	12,644.00	18,705.00	10,549.45	136.29	123.15	-32.158	-563.37	986.48	9,115.42	9,037.52	77.90	117.017	
21,200.00	12,644.00	18,705.00	10,549.45	137.71	123.15	-32.158	-563.37	986.48	9,211.71	9,133.84	77.86	118.305	
21,300.00	12,644.00	18,705.00	10,549.45	139.13	123.15	-32.158	-563.37	986.48	9,308.07	9,230.24	77.83	119.589	
21,400.00	12,644.00	18,705.00	10,549.45	140.54	123.15	-32.158	-563.37	986.48	9,404.51	9,326.70	77.81	120.867	
21,500.00	12,644.00	18,705.00	10,549.45	141.96	123.15	-32.158	-563.37	986.48	9,501.03	9,423.24	77.79	122.140	
21,600.00	12,644.00	18,705.00	10,549.45	143.38	123.15	-32.158	-563.37	986.48	9,597.61	9,519.84	77.77	123.407	
21,700.00	12,644.00	18,705.00	10,549.45	144.80	123.15	-32.158	-563.37	986.48	9,694.27	9,616.51	77.76	124.669	
21,800.00	12,644.00	18,705.00	10,549.45	146.22	123.15	-32.158	-563.37	986.48	9,790.99	9,713.24	77.75	125.925	
21,900.00	12,644.00	18,705.00	10,549.45	147.64	123.15	-32.158	-563.37	986.48	9,887.78	9,810.03	77.75	127.175	
22,000.00	12,644.00	18,705.00	10,549.45	149.06	123.15	-32.158	-563.37	986.48	9,984.63	9,906.88	77.75	128.420	
22,100.00	12,644.00	18,705.00	10,549.45	150.48	123.15	-32.158	-563.37	986.48	10,081.54	10,003.78	77.75	129.659	
22,199.47	12,644.00	18,705.00	10,549.45	151.89	123.15	-32.158	-563.37	986.48	10,178.00	10,100.24	77.76	130.886	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 4 - Cattleman Fed Com 204H - OH / 69917 - Surveys H&P 656)												Offset Site Error:	0.00 usft
Survey Program: 175-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	95.50	55.50	1.00	1.15	7.101	7,816.82	973.72	7,877.43				
100.00	100.00	220.60	180.59	1.08	1.76	7.102	7,815.48	973.75	7,876.32	7,873.48	2.84	2,773.951	
200.00	200.00	288.97	248.96	1.60	2.28	7.102	7,814.93	973.63	7,875.50	7,871.62	3.88	2,030.583	
300.00	300.00	358.00	317.99	2.01	2.84	7.100	7,814.67	973.37	7,875.08	7,870.23	4.85	1,622.769	
394.15	394.15	434.17	394.16	2.33	3.08	7.099	7,814.61	973.22	7,874.98	7,869.56	5.42	1,454.126	
400.00	400.00	438.96	398.94	2.35	3.10	7.099	7,814.61	973.23	7,874.98	7,869.53	5.45	1,444.622	
500.00	500.00	520.69	480.68	2.65	3.36	7.102	7,814.67	973.59	7,875.11	7,869.09	6.01	1,309.646	
600.00	600.00	616.76	576.74	2.93	3.82	7.107	7,814.85	974.38	7,875.40	7,868.65	6.75	1,167.525	
700.00	700.00	716.67	676.65	3.18	4.34	7.112	7,815.06	975.05	7,875.69	7,868.18	7.51	1,048.129	
800.00	800.00	809.00	768.98	3.41	4.53	7.117	7,815.30	975.81	7,876.04	7,868.12	7.92	994.864	
900.00	900.00	902.20	862.17	3.64	4.84	7.123	7,815.61	976.62	7,876.48	7,868.05	8.44	933.699	
1,000.00	1,000.00	990.00	949.97	3.85	5.13	7.126	7,816.01	977.08	7,877.00	7,868.08	8.93	882.365	
1,100.00	1,100.00	1,068.15	1,028.12	4.05	5.37	7.127	7,816.56	977.30	7,877.74	7,868.38	9.36	841.271	
1,200.00	1,200.00	1,145.00	1,104.96	4.24	5.61	7.127	7,817.39	977.39	7,878.83	7,869.04	9.79	804.677	
1,300.00	1,300.00	1,232.24	1,192.19	4.43	5.91	7.124	7,818.58	977.16	7,880.14	7,869.84	10.30	765.301	
1,400.00	1,400.00	2,095.00	2,053.02	4.61	15.84	7.208	7,790.98	985.31	7,880.14	7,864.44	15.70	501.952	
1,500.00	1,500.00	2,095.00	2,053.02	4.78	15.84	7.208	7,790.98	985.31	7,872.49	7,856.60	15.88	495.650	
1,600.00	1,599.98	2,095.00	2,053.02	4.98	15.84	161.258	7,790.98	985.31	7,867.75	7,851.67	16.07	489.450	
1,675.20	1,675.09	2,172.85	2,130.45	5.44	16.23	161.311	7,784.46	989.86	7,865.41	7,847.68	17.73	443.575	
1,700.00	1,699.84	2,178.18	2,135.75	5.60	16.26	161.314	7,784.11	990.27	7,865.54	7,847.58	17.96	437.848	
1,718.18	1,717.96	2,182.08	2,139.64	5.62	16.28	161.316	7,783.86	990.57	7,865.81	7,847.77	18.04	436.046	
1,800.00	1,799.55	2,199.62	2,157.09	5.72	16.39	161.330	7,782.80	992.02	7,867.66	7,849.23	18.42	427.056	
1,900.00	1,899.26	2,285.00	2,241.93	5.89	16.96	161.413	7,779.47	1,000.91	7,872.03	7,852.08	19.95	394.540	
2,000.00	1,998.97	2,285.00	2,241.93	6.09	16.96	161.413	7,779.47	1,000.91	7,875.53	7,855.38	20.15	390.848	
2,100.00	2,098.68	2,285.00	2,241.93	6.30	16.96	161.413	7,779.47	1,000.91	7,880.30	7,859.94	20.36	387.068	
2,200.00	2,198.39	2,285.00	2,241.93	6.53	16.96	161.413	7,779.47	1,000.91	7,886.33	7,865.75	20.58	383.238	
2,300.00	2,298.10	2,285.00	2,241.93	6.77	16.96	161.413	7,779.47	1,000.91	7,893.62	7,872.81	20.81	379.390	
2,400.00	2,397.81	2,285.00	2,241.93	7.02	16.96	161.413	7,779.47	1,000.91	7,902.17	7,881.13	21.04	375.554	
2,500.00	2,497.52	2,372.93	2,329.32	7.28	17.62	161.498	7,778.89	1,010.62	7,910.34	7,887.30	23.04	343.282	
2,600.00	2,597.23	2,402.37	2,358.62	7.55	17.90	161.523	7,779.28	1,013.41	7,920.12	7,896.23	23.89	331.579	
2,700.00	2,696.94	2,473.00	2,428.98	7.83	18.74	161.575	7,781.40	1,019.15	7,931.14	7,905.57	25.57	310.150	
2,800.00	2,796.65	2,473.00	2,428.98	8.12	18.74	161.575	7,781.40	1,019.15	7,942.35	7,916.52	25.83	307.475	
2,900.00	2,896.36	2,530.12	2,485.89	8.42	18.90	161.613	7,783.79	1,023.37	7,954.59	7,928.29	26.30	302.452	
3,000.00	2,996.07	2,625.01	2,580.40	8.72	19.17	161.680	7,787.72	1,030.93	7,966.98	7,940.06	26.91	296.022	
3,100.00	3,095.78	2,814.49	2,768.99	9.03	19.50	161.828	7,794.47	1,048.03	7,979.07	7,951.51	27.56	289.510	
3,200.00	3,195.49	19,177.00	10,931.61	9.34	127.47	-118.319	-557.56	1,636.42	7,931.15	7,854.62	76.53	103.633	
3,300.00	3,295.20	19,177.00	10,931.61	9.66	127.47	-118.319	-557.56	1,636.42	7,834.25	7,757.56	76.69	102.157	
3,400.00	3,394.91	19,177.00	10,931.61	9.98	127.47	-118.319	-557.56	1,636.42	7,737.43	7,660.58	76.85	100.681	
3,500.00	3,494.62	19,177.00	10,931.61	10.30	127.47	-118.319	-557.56	1,636.42	7,640.70	7,563.68	77.02	99.206	
3,600.00	3,594.33	19,177.00	10,931.61	10.63	127.47	-118.319	-557.56	1,636.42	7,544.05	7,466.86	77.19	97.732	
3,700.00	3,694.04	19,177.00	10,931.61	10.96	127.47	-118.319	-557.56	1,636.42	7,447.49	7,370.12	77.37	96.259	
3,800.00	3,793.75	19,177.00	10,931.61	11.29	127.47	-118.319	-557.56	1,636.42	7,351.02	7,273.46	77.55	94.787	
3,900.00	3,893.47	19,177.00	10,931.61	11.63	127.47	-118.319	-557.56	1,636.42	7,254.64	7,176.90	77.74	93.315	
4,000.00	3,993.18	19,177.00	10,931.61	11.97	127.47	-118.319	-557.56	1,636.42	7,158.37	7,080.43	77.94	91.845	
4,100.00	4,092.89	19,177.00	10,931.61	12.31	127.47	-118.319	-557.56	1,636.42	7,062.19	6,984.05	78.14	90.377	
4,200.00	4,192.60	19,177.00	10,931.61	12.65	127.47	-118.319	-557.56	1,636.42	6,966.13	6,887.78	78.35	88.910	
4,300.00	4,292.31	19,177.00	10,931.61	13.00	127.47	-118.319	-557.56	1,636.42	6,870.18	6,791.61	78.57	87.445	
4,400.00	4,392.02	19,177.00	10,931.61	13.34	127.47	-118.319	-557.56	1,636.42	6,774.34	6,695.56	78.79	85.981	
4,500.00	4,491.73	19,177.00	10,931.61	13.69	127.47	-118.319	-557.56	1,636.42	6,678.63	6,599.61	79.02	84.519	
4,600.00	4,591.44	19,177.00	10,931.61	14.04	127.47	-118.319	-557.56	1,636.42	6,583.05	6,503.79	79.26	83.059	
4,700.00	4,691.15	19,177.00	10,931.61	14.39	127.47	-118.319	-557.56	1,636.42	6,487.60	6,408.09	79.50	81.602	
4,800.00	4,790.86	19,177.00	10,931.61	14.74	127.47	-118.319	-557.56	1,636.42	6,392.28	6,312.53	79.76	80.146	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 4 - Cattleman Fed Com 204H - OH / 69917 - Surveys H&P 656)													Offset Site Error: 0.00 usft		
Survey Program:		175-MWD+HRGM		Offset		Semi 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		
4,900.00	4,890.57	19,177.00	10,931.61	15.10	127.47	-118.319	-557.56	1,636.42	6,297.12	6,217.09	80.02	78.693			
5,000.00	4,990.28	19,177.00	10,931.61	15.45	127.47	-118.319	-557.56	1,636.42	6,202.10	6,121.81	80.29	77.243			
5,100.00	5,089.99	19,177.00	10,931.61	15.81	127.47	-118.319	-557.56	1,636.42	6,107.24	6,026.67	80.58	75.795			
5,200.00	5,189.70	19,177.00	10,931.61	16.16	127.47	-118.319	-557.56	1,636.42	6,012.56	5,931.69	80.87	74.350			
5,300.00	5,289.41	19,177.00	10,931.61	16.52	127.47	-118.319	-557.56	1,636.42	5,918.04	5,836.87	81.17	72.908			
5,400.00	5,389.12	19,177.00	10,931.61	16.88	127.47	-118.319	-557.56	1,636.42	5,823.71	5,742.22	81.49	71.469			
5,500.00	5,488.83	19,177.00	10,931.61	17.24	127.47	-118.319	-557.56	1,636.42	5,729.57	5,647.76	81.81	70.033			
5,600.00	5,588.54	19,177.00	10,931.61	17.59	127.47	-118.319	-557.56	1,636.42	5,635.63	5,553.48	82.15	68.601			
5,700.00	5,688.25	19,177.00	10,931.61	17.95	127.47	-118.319	-557.56	1,636.42	5,541.91	5,459.40	82.50	67.172			
5,800.00	5,787.96	19,177.00	10,931.61	18.32	127.47	-118.319	-557.56	1,636.42	5,448.41	5,365.54	82.87	65.746			
5,900.00	5,887.67	19,177.00	10,931.61	18.68	127.47	-118.319	-557.56	1,636.42	5,355.14	5,271.89	83.25	64.325			
6,000.00	5,987.38	19,177.00	10,931.61	19.04	127.47	-118.319	-557.56	1,636.42	5,262.12	5,178.47	83.65	62.907			
6,100.00	6,087.09	19,177.00	10,931.61	19.40	127.47	-118.319	-557.56	1,636.42	5,169.36	5,085.30	84.06	61.494			
6,200.00	6,186.80	19,177.00	10,931.61	19.76	127.47	-118.319	-557.56	1,636.42	5,076.88	4,992.38	84.49	60.085			
6,300.00	6,286.51	19,177.00	10,931.61	20.13	127.47	-118.319	-557.56	1,636.42	4,984.68	4,899.74	84.94	58.681			
6,400.00	6,386.22	19,177.00	10,931.61	20.49	127.47	-118.319	-557.56	1,636.42	4,892.79	4,807.38	85.42	57.282			
6,500.00	6,485.93	19,177.00	10,931.61	20.86	127.47	-118.319	-557.56	1,636.42	4,801.23	4,715.32	85.91	55.888			
6,600.00	6,585.64	19,177.00	10,931.61	21.22	127.47	-118.319	-557.56	1,636.42	4,710.01	4,623.59	86.42	54.500			
6,700.00	6,685.35	19,177.00	10,931.61	21.59	127.47	-118.319	-557.56	1,636.42	4,619.15	4,532.19	86.96	53.117			
6,800.00	6,785.06	19,177.00	10,931.61	21.95	127.47	-118.319	-557.56	1,636.42	4,528.68	4,441.16	87.53	51.741			
6,900.00	6,884.77	19,177.00	10,931.61	22.32	127.47	-118.319	-557.56	1,636.42	4,438.62	4,350.50	88.12	50.371			
7,000.00	6,984.48	19,177.00	10,931.61	22.68	127.47	-118.319	-557.56	1,636.42	4,348.99	4,260.25	88.74	49.008			
7,100.00	7,084.19	19,177.00	10,931.61	23.05	127.47	-118.319	-557.56	1,636.42	4,259.83	4,170.43	89.39	47.653			
7,200.00	7,183.90	19,177.00	10,931.61	23.42	127.47	-118.319	-557.56	1,636.42	4,171.15	4,081.07	90.08	46.305			
7,300.00	7,283.61	19,177.00	10,931.61	23.78	127.47	-118.319	-557.56	1,636.42	4,083.00	3,992.20	90.80	44.966			
7,400.00	7,383.32	19,177.00	10,931.61	24.15	127.47	-118.319	-557.56	1,636.42	3,995.41	3,903.84	91.56	43.635			
7,500.00	7,483.03	19,177.00	10,931.61	24.52	127.47	-118.319	-557.56	1,636.42	3,908.41	3,816.05	92.36	42.315			
7,600.00	7,582.74	19,177.00	10,931.61	24.89	127.47	-118.319	-557.56	1,636.42	3,822.05	3,728.84	93.21	41.005			
7,700.00	7,682.45	19,177.00	10,931.61	25.25	127.47	-118.319	-557.56	1,636.42	3,736.37	3,642.27	94.10	39.706			
7,800.00	7,782.16	19,177.00	10,931.61	25.62	127.47	-118.319	-557.56	1,636.42	3,651.41	3,556.37	95.04	38.419			
7,900.00	7,881.87	19,177.00	10,931.61	25.99	127.47	-118.319	-557.56	1,636.42	3,567.24	3,471.21	96.04	37.145			
8,000.00	7,981.58	19,177.00	10,931.61	26.36	127.47	-118.319	-557.56	1,636.42	3,483.91	3,386.82	97.08	35.885			
8,100.00	8,081.29	19,177.00	10,931.61	26.73	127.47	-118.319	-557.56	1,636.42	3,401.47	3,303.27	98.19	34.640			
8,200.00	8,181.00	19,177.00	10,931.61	27.10	127.47	-118.319	-557.56	1,636.42	3,319.99	3,220.63	99.37	33.412			
8,300.00	8,280.71	19,177.00	10,931.61	27.47	127.47	-118.319	-557.56	1,636.42	3,239.56	3,138.96	100.60	32.201			
8,400.00	8,380.42	19,177.00	10,931.61	27.84	127.47	-118.319	-557.56	1,636.42	3,160.24	3,058.33	101.91	31.010			
8,500.00	8,480.13	19,177.00	10,931.61	28.21	127.47	-118.319	-557.56	1,636.42	3,082.13	2,978.84	103.29	29.839			
8,600.00	8,579.84	19,177.00	10,931.61	28.58	127.47	-118.319	-557.56	1,636.42	3,005.31	2,900.56	104.75	28.690			
8,700.00	8,679.55	19,177.00	10,931.61	28.95	127.47	-118.319	-557.56	1,636.42	2,929.90	2,823.61	106.29	27.565			
8,800.00	8,779.26	19,177.00	10,931.61	29.32	127.47	-118.319	-557.56	1,636.42	2,855.99	2,748.08	107.91	26.466			
8,900.00	8,878.97	19,177.00	10,931.61	29.69	127.47	-118.319	-557.56	1,636.42	2,783.71	2,674.10	109.62	25.395			
9,000.00	8,978.68	19,177.00	10,931.61	30.06	127.47	-118.319	-557.56	1,636.42	2,713.20	2,601.79	111.41	24.354			
9,100.00	9,078.39	19,177.00	10,931.61	30.43	127.47	-118.319	-557.56	1,636.42	2,644.58	2,531.30	113.29	23.344			
9,200.00	9,178.10	19,177.00	10,931.61	30.80	127.47	-118.319	-557.56	1,636.42	2,578.02	2,462.78	115.25	22.369			
9,300.00	9,277.81	19,177.00	10,931.61	31.17	127.47	-118.319	-557.56	1,636.42	2,513.68	2,396.39	117.30	21.430			
9,400.00	9,377.52	19,177.00	10,931.61	31.54	127.47	-118.319	-557.56	1,636.42	2,451.73	2,332.31	119.42	20.530			
9,500.00	9,477.23	19,177.00	10,931.61	31.91	127.47	-118.319	-557.56	1,636.42	2,392.36	2,270.73	121.62	19.670			
9,600.00	9,576.94	19,177.00	10,931.61	32.29	127.47	-118.319	-557.56	1,636.42	2,335.76	2,211.87	123.89	18.854			
9,700.00	9,676.65	19,177.00	10,931.61	32.66	127.47	-118.319	-557.56	1,636.42	2,282.13	2,155.93	126.20	18.083			
9,800.00	9,776.36	19,177.00	10,931.61	33.03	127.47	-118.319	-557.56	1,636.42	2,231.71	2,103.15	128.56	17.359			
9,900.00	9,876.07	19,177.00	10,931.61	33.40	127.47	-118.319	-557.56	1,636.42	2,184.70	2,053.76	130.94	16.685			
10,000.00	9,975.78	19,177.00	10,931.61	33.77	127.47	-118.319	-557.56	1,636.42	2,141.33	2,008.01	133.32	16.062			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 4 - Cattleman Fed Com 204H - OH / 69917 - Surveys H&P 656)													Offset Site Error:	0.00 usft	
Survey Program:		175-MWD+HRGM		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
10,100.00	10,075.49	19,177.00	10,931.61	34.14	127.47	-118.319	-557.56	1,636.42	2,101.83	1,966.15	135.67	15.492			
10,200.00	10,175.20	19,177.00	10,931.61	34.52	127.47	-118.319	-557.56	1,636.42	2,066.41	1,928.43	137.98	14.976			
10,300.00	10,274.91	19,177.00	10,931.61	34.89	127.47	-118.319	-557.56	1,636.42	2,035.30	1,895.08	140.22	14.515			
10,400.00	10,374.62	19,177.00	10,931.61	35.26	127.47	-118.319	-557.56	1,636.42	2,008.69	1,866.34	142.35	14.111			
10,500.00	10,474.33	19,177.00	10,931.61	35.63	127.47	-118.319	-557.56	1,636.42	1,986.76	1,842.42	144.34	13.764			
10,600.00	10,574.04	19,177.00	10,931.61	36.01	127.47	-118.319	-557.56	1,636.42	1,969.67	1,823.49	146.18	13.474			
10,700.00	10,673.75	19,177.00	10,931.61	36.38	127.47	-118.319	-557.56	1,636.42	1,957.55	1,809.72	147.83	13.242			
10,800.00	10,773.46	19,177.00	10,931.61	36.75	127.47	-118.319	-557.56	1,636.42	1,950.48	1,801.21	149.27	13.067			
10,888.08	10,861.28	19,177.00	10,931.61	37.08	127.47	-118.319	-557.56	1,636.42	1,948.49	1,798.13	150.36	12.959	CC		
10,900.00	10,873.18	19,177.00	10,931.61	37.12	127.47	-118.319	-557.56	1,636.42	1,948.53	1,798.04	150.49	12.948	ES		
11,000.00	10,972.89	19,177.00	10,931.61	37.50	127.47	-118.319	-557.56	1,636.42	1,951.70	1,800.22	151.48	12.884			
11,100.00	11,072.60	19,177.00	10,931.61	37.87	127.47	-118.319	-557.56	1,636.42	1,959.98	1,807.75	152.23	12.875	SF		
11,200.00	11,172.31	19,177.00	10,931.61	38.24	127.47	-118.319	-557.56	1,636.42	1,973.30	1,820.56	152.74	12.919			
11,300.00	11,272.02	19,177.00	10,931.61	38.62	127.47	-118.319	-557.56	1,636.42	1,991.56	1,838.53	153.03	13.014			
11,381.30	11,353.08	19,177.00	10,931.61	38.92	127.47	-118.319	-557.56	1,636.42	2,009.95	1,856.84	153.10	13.128			
11,400.00	11,371.73	19,177.00	10,931.61	38.98	127.47	-118.403	-557.56	1,636.42	2,014.59	1,861.49	153.10	13.159			
11,500.00	11,471.59	19,177.00	10,931.61	39.34	127.47	-118.888	-557.56	1,636.42	2,041.20	1,888.26	152.94	13.347			
11,599.47	11,571.04	19,177.00	10,931.61	39.49	127.47	86.557	-557.56	1,636.42	2,070.54	1,918.06	152.47	13.580			
11,600.00	11,571.57	19,177.00	10,931.61	39.49	127.47	86.557	-557.56	1,636.42	2,070.70	1,918.23	152.47	13.581			
11,700.00	11,671.57	19,177.00	10,931.61	39.52	127.47	86.557	-557.56	1,636.42	2,103.75	1,951.98	151.77	13.861			
11,800.00	11,771.57	19,177.00	10,931.61	39.52	127.47	86.557	-557.56	1,636.42	2,140.98	1,990.02	150.95	14.183			
11,900.00	11,871.57	19,177.00	10,931.61	39.53	127.47	86.557	-557.56	1,636.42	2,182.15	2,032.10	150.05	14.543			
12,000.00	11,971.57	19,177.00	10,931.61	39.54	127.47	86.557	-557.56	1,636.42	2,227.05	2,077.98	149.07	14.940			
12,099.47	12,071.04	19,177.00	10,931.61	39.54	127.47	86.557	-557.56	1,636.42	2,275.20	2,127.16	148.05	15.368			
12,100.00	12,071.57	19,177.00	10,931.61	39.55	127.47	-92.859	-557.56	1,636.42	2,275.47	2,127.43	148.04	15.371			
12,150.00	12,121.50	19,177.00	10,931.61	39.65	127.47	-89.893	-557.56	1,636.42	2,300.99	2,153.44	147.54	15.595			
12,200.00	12,171.05	19,177.00	10,931.61	39.91	127.47	-86.801	-557.56	1,636.42	2,327.29	2,180.19	147.10	15.821			
12,250.00	12,219.84	19,177.00	10,931.61	40.20	127.47	-83.626	-557.56	1,636.42	2,354.16	2,207.46	146.70	16.048			
12,300.00	12,267.50	19,177.00	10,931.61	40.50	127.47	-80.414	-557.56	1,636.42	2,381.38	2,235.04	146.34	16.273			
12,350.00	12,313.66	19,177.00	10,931.61	40.80	127.47	-77.211	-557.56	1,636.42	2,408.72	2,262.70	146.02	16.496			
12,400.00	12,357.98	19,177.00	10,931.61	41.09	127.47	-74.061	-557.56	1,636.42	2,435.98	2,290.24	145.74	16.714			
12,450.00	12,400.11	19,177.00	10,931.61	41.38	127.47	-71.005	-557.56	1,636.42	2,462.96	2,317.45	145.50	16.927			
12,500.00	12,439.74	19,177.00	10,931.61	41.66	127.47	-68.076	-557.56	1,636.42	2,489.46	2,344.16	145.30	17.133			
12,550.00	12,476.56	19,177.00	10,931.61	41.92	127.47	-65.304	-557.56	1,636.42	2,515.31	2,370.18	145.13	17.331			
12,600.00	12,510.29	19,177.00	10,931.61	42.16	127.47	-62.707	-557.56	1,636.42	2,540.33	2,395.33	144.99	17.520			
12,650.00	12,540.68	19,177.00	10,931.61	42.39	127.47	-60.300	-557.56	1,636.42	2,564.34	2,419.46	144.88	17.699			
12,700.00	12,567.50	19,177.00	10,931.61	42.58	127.47	-58.091	-557.56	1,636.42	2,587.22	2,442.41	144.80	17.867			
12,750.00	12,590.54	19,177.00	10,931.61	42.76	127.47	-56.082	-557.56	1,636.42	2,608.80	2,464.05	144.74	18.024			
12,800.00	12,609.63	19,177.00	10,931.61	42.91	127.47	-54.273	-557.56	1,636.42	2,628.96	2,484.25	144.71	18.167			
12,850.00	12,624.61	19,177.00	10,931.61	43.03	127.47	-52.661	-557.56	1,636.42	2,647.58	2,502.89	144.69	18.298			
12,900.00	12,635.39	19,177.00	10,931.61	43.12	127.47	-51.239	-557.56	1,636.42	2,664.56	2,519.86	144.69	18.415			
12,950.00	12,641.87	19,177.00	10,931.61	43.19	127.47	-50.003	-557.56	1,636.42	2,679.79	2,535.08	144.71	18.518			
12,999.47	12,644.00	19,177.00	10,931.61	43.23	127.47	-48.956	-557.56	1,636.42	2,693.06	2,548.31	144.75	18.605			
13,000.00	12,644.00	19,177.00	10,931.61	43.24	127.47	-48.956	-557.56	1,636.42	2,693.19	2,548.44	144.75	18.606			
13,100.00	12,644.00	19,177.00	10,931.61	43.31	127.47	-48.956	-557.56	1,636.42	2,719.90	2,575.16	144.73	18.793			
13,200.00	12,644.00	19,177.00	10,931.61	43.39	127.47	-48.956	-557.56	1,636.42	2,749.98	2,605.45	144.53	19.028			
13,300.00	12,644.00	19,177.00	10,931.61	43.50	127.47	-48.956	-557.56	1,636.42	2,783.33	2,639.13	144.20	19.301			
13,400.00	12,644.00	19,177.00	10,931.61	43.63	127.47	-48.956	-557.56	1,636.42	2,819.84	2,676.06	143.77	19.613			
13,500.00	12,644.00	19,177.00	10,931.61	43.78	127.47	-48.956	-557.56	1,636.42	2,859.38	2,716.13	143.24	19.962			
13,600.00	12,644.00	19,177.00	10,931.61	43.96	127.47	-48.956	-557.56	1,636.42	2,901.83	2,759.20	142.62	20.346			
13,700.00	12,644.00	19,177.00	10,931.61	44.18	127.47	-48.956	-557.56	1,636.42	2,947.06	2,805.14	141.92	20.765			
13,800.00	12,644.00	19,177.00	10,931.61	44.44	127.47	-48.956	-557.56	1,636.42	2,994.95	2,853.80	141.15	21.218			



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 4 - Cattleman Fed Com 204H - OH / 69917 - Surveys H&P 656)													Offset Site Error: 0.00 usft		
Survey Program: 175-MWD+HRGM		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		
13,900.00	12,644.00	19,177.00	10,931.61	44.74	127.47	-48.956	-557.56	1,636.42	3,045.37	2,905.05	140.31	21.704			
14,000.00	12,644.00	19,177.00	10,931.61	45.11	127.47	-48.956	-557.56	1,636.42	3,098.19	2,958.77	139.43	22.221			
14,100.00	12,644.00	19,177.00	10,931.61	45.54	127.47	-48.956	-557.56	1,636.42	3,153.31	3,014.81	138.49	22.769			
14,200.00	12,644.00	19,177.00	10,931.61	46.05	127.47	-48.956	-557.56	1,636.42	3,210.59	3,073.07	137.53	23.345			
14,300.00	12,644.00	19,177.00	10,931.61	46.65	127.47	-48.956	-557.56	1,636.42	3,269.93	3,133.40	136.53	23.950			
14,400.00	12,644.00	19,177.00	10,931.61	47.33	127.47	-48.956	-557.56	1,636.42	3,331.22	3,195.71	135.51	24.582			
14,500.00	12,644.00	19,177.00	10,931.61	48.09	127.47	-48.956	-557.56	1,636.42	3,394.34	3,259.86	134.48	25.241			
14,600.00	12,644.00	19,177.00	10,931.61	48.94	127.47	-48.956	-557.56	1,636.42	3,459.21	3,325.77	133.44	25.924			
14,700.00	12,644.00	19,177.00	10,931.61	49.86	127.47	-48.956	-557.56	1,636.42	3,525.72	3,393.33	132.39	26.632			
14,800.00	12,644.00	19,177.00	10,931.61	50.85	127.47	-48.956	-557.56	1,636.42	3,593.78	3,462.44	131.34	27.362			
14,900.00	12,644.00	19,177.00	10,931.61	51.89	127.47	-48.956	-557.56	1,636.42	3,663.30	3,533.01	130.30	28.115			
15,000.00	12,644.00	19,177.00	10,931.61	52.99	127.47	-48.956	-557.56	1,636.42	3,734.21	3,604.95	129.26	28.889			
15,100.00	12,644.00	19,177.00	10,931.61	54.12	127.47	-48.956	-557.56	1,636.42	3,806.43	3,678.20	128.23	29.684			
15,200.00	12,644.00	19,177.00	10,931.61	55.29	127.47	-48.956	-557.56	1,636.42	3,879.88	3,752.66	127.22	30.498			
15,300.00	12,644.00	19,177.00	10,931.61	56.49	127.47	-48.956	-557.56	1,636.42	3,954.49	3,828.27	126.22	31.331			
15,400.00	12,644.00	19,177.00	10,931.61	57.72	127.47	-48.956	-557.56	1,636.42	4,030.20	3,904.97	125.23	32.182			
15,500.00	12,644.00	19,177.00	10,931.61	58.96	127.47	-48.956	-557.56	1,636.42	4,106.96	3,982.69	124.27	33.050			
15,600.00	12,644.00	19,177.00	10,931.61	60.22	127.47	-48.956	-557.56	1,636.42	4,184.69	4,061.37	123.32	33.934			
15,700.00	12,644.00	19,177.00	10,931.61	61.50	127.47	-48.956	-557.56	1,636.42	4,263.36	4,140.96	122.39	34.834			
15,800.00	12,644.00	19,177.00	10,931.61	62.79	127.47	-48.956	-557.56	1,636.42	4,342.90	4,221.41	121.49	35.748			
15,900.00	12,644.00	19,177.00	10,931.61	64.09	127.47	-48.956	-557.56	1,636.42	4,423.27	4,302.67	120.60	36.677			
16,000.00	12,644.00	19,177.00	10,931.61	65.40	127.47	-48.956	-557.56	1,636.42	4,504.43	4,384.69	119.74	37.620			
16,100.00	12,644.00	19,177.00	10,931.61	66.72	127.47	-48.956	-557.56	1,636.42	4,586.33	4,467.44	118.89	38.575			
16,200.00	12,644.00	19,177.00	10,931.61	68.04	127.47	-48.956	-557.56	1,636.42	4,668.94	4,550.86	118.07	39.543			
16,300.00	12,644.00	19,177.00	10,931.61	69.38	127.47	-48.956	-557.56	1,636.42	4,752.21	4,634.94	117.27	40.522			
16,400.00	12,644.00	19,177.00	10,931.61	70.72	127.47	-48.956	-557.56	1,636.42	4,836.12	4,719.62	116.50	41.512			
16,500.00	12,644.00	19,177.00	10,931.61	72.07	127.47	-48.956	-557.56	1,636.42	4,920.63	4,804.89	115.74	42.513			
16,600.00	12,644.00	19,177.00	10,931.61	73.42	127.47	-48.956	-557.56	1,636.42	5,005.71	4,890.70	115.01	43.524			
16,700.00	12,644.00	19,177.00	10,931.61	74.77	127.47	-48.956	-557.56	1,636.42	5,091.34	4,977.04	114.30	44.545			
16,800.00	12,644.00	19,177.00	10,931.61	76.13	127.47	-48.956	-557.56	1,636.42	5,177.48	5,063.87	113.61	45.574			
16,900.00	12,644.00	19,177.00	10,931.61	77.49	127.47	-48.956	-557.56	1,636.42	5,264.11	5,151.17	112.93	46.612			
17,000.00	12,644.00	19,177.00	10,931.61	78.86	127.47	-48.956	-557.56	1,636.42	5,351.20	5,238.92	112.28	47.658			
17,100.00	12,644.00	19,177.00	10,931.61	80.23	127.47	-48.956	-557.56	1,636.42	5,438.74	5,327.09	111.65	48.711			
17,200.00	12,644.00	19,177.00	10,931.61	81.60	127.47	-48.956	-557.56	1,636.42	5,526.71	5,415.67	111.04	49.772			
17,300.00	12,644.00	19,177.00	10,931.61	82.98	127.47	-48.956	-557.56	1,636.42	5,615.07	5,504.63	110.45	50.839			
17,400.00	12,644.00	19,177.00	10,931.61	84.36	127.47	-48.956	-557.56	1,636.42	5,703.82	5,593.95	109.87	51.913			
17,500.00	12,644.00	19,177.00	10,931.61	85.74	127.47	-48.956	-557.56	1,636.42	5,792.94	5,683.62	109.32	52.993			
17,600.00	12,644.00	19,177.00	10,931.61	87.12	127.47	-48.956	-557.56	1,636.42	5,882.41	5,773.63	108.78	54.078			
17,700.00	12,644.00	19,177.00	10,931.61	88.51	127.47	-48.956	-557.56	1,636.42	5,972.21	5,863.95	108.25	55.168			
17,800.00	12,644.00	19,177.00	10,931.61	89.89	127.47	-48.956	-557.56	1,636.42	6,062.33	5,954.58	107.75	56.263			
17,900.00	12,644.00	19,177.00	10,931.61	91.28	127.47	-48.956	-557.56	1,636.42	6,152.75	6,045.49	107.26	57.363			
18,000.00	12,644.00	19,177.00	10,931.61	92.67	127.47	-48.956	-557.56	1,636.42	6,243.47	6,136.68	106.79	58.467			
18,100.00	12,644.00	19,177.00	10,931.61	94.07	127.47	-48.956	-557.56	1,636.42	6,334.47	6,228.14	106.33	59.575			
18,200.00	12,644.00	19,177.00	10,931.61	95.46	127.47	-48.956	-557.56	1,636.42	6,425.73	6,319.85	105.88	60.686			
18,300.00	12,644.00	19,177.00	10,931.61	96.85	127.47	-48.956	-557.56	1,636.42	6,517.25	6,411.80	105.46	61.801			
18,400.00	12,644.00	19,177.00	10,931.61	98.25	127.47	-48.956	-557.56	1,636.42	6,609.02	6,503.98	105.04	62.918			
18,500.00	12,644.00	19,177.00	10,931.61	99.65	127.47	-48.956	-557.56	1,636.42	6,701.02	6,596.38	104.64	64.038			
18,600.00	12,644.00	19,177.00	10,931.61	101.05	127.47	-48.956	-557.56	1,636.42	6,793.25	6,689.00	104.25	65.161			
18,700.00	12,644.00	19,177.00	10,931.61	102.45	127.47	-48.956	-557.56	1,636.42	6,885.69	6,781.82	103.88	66.286			
18,800.00	12,644.00	19,177.00	10,931.61	103.85	127.47	-48.956	-557.56	1,636.42	6,978.35	6,874.83	103.52	67.413			
18,900.00	12,644.00	19,177.00	10,931.61	105.25	127.47	-48.956	-557.56	1,636.42	7,071.20	6,968.04	103.17	68.542			
19,000.00	12,644.00	19,177.00	10,931.61	106.65	127.47	-48.956	-557.56	1,636.42	7,164.25	7,061.42	102.83	69.672			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 4 - Cattleman Fed Com 204H - OH / 69917 - Surveys H&P 656)													Offset Site Error:	0.00 usft
Survey Program:		175-MWD+HRGM		Semi Major Axis			Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,100.00	12,644.00	19,177.00	10,931.61	108.06	127.47	-48.956	-557.56	1,636.42	7,257.48	7,154.98	102.50	70.804		
19,200.00	12,644.00	19,177.00	10,931.61	109.46	127.47	-48.956	-557.56	1,636.42	7,350.89	7,248.70	102.19	71.936		
19,300.00	12,644.00	19,177.00	10,931.61	110.87	127.47	-48.956	-557.56	1,636.42	7,444.47	7,342.59	101.88	73.070		
19,400.00	12,644.00	19,177.00	10,931.61	112.28	127.47	-48.956	-557.56	1,636.42	7,538.21	7,436.63	101.59	74.204		
19,500.00	12,644.00	19,177.00	10,931.61	113.68	127.47	-48.956	-557.56	1,636.42	7,632.12	7,530.81	101.30	75.338		
19,600.00	12,644.00	19,177.00	10,931.61	115.09	127.47	-48.956	-557.56	1,636.42	7,726.17	7,625.14	101.03	76.473		
19,700.00	12,644.00	19,177.00	10,931.61	116.50	127.47	-48.956	-557.56	1,636.42	7,820.38	7,719.61	100.77	77.608		
19,800.00	12,644.00	19,177.00	10,931.61	117.91	127.47	-48.956	-557.56	1,636.42	7,914.72	7,814.21	100.51	78.743		
19,900.00	12,644.00	19,177.00	10,931.61	119.32	127.47	-48.956	-557.56	1,636.42	8,009.21	7,908.94	100.27	79.878		
20,000.00	12,644.00	19,177.00	10,931.61	120.73	127.47	-48.956	-557.56	1,636.42	8,103.82	8,003.79	100.03	81.013		
20,100.00	12,644.00	19,177.00	10,931.61	122.15	127.47	-48.956	-557.56	1,636.42	8,198.57	8,098.76	99.80	82.147		
20,200.00	12,644.00	19,177.00	10,931.61	123.56	127.47	-48.956	-557.56	1,636.42	8,293.44	8,193.85	99.58	83.280		
20,300.00	12,644.00	19,177.00	10,931.61	124.97	127.47	-48.956	-557.56	1,636.42	8,388.42	8,289.05	99.37	84.413		
20,400.00	12,644.00	19,177.00	10,931.61	126.38	127.47	-48.956	-557.56	1,636.42	8,483.52	8,384.35	99.17	85.545		
20,500.00	12,644.00	19,177.00	10,931.61	127.80	127.47	-48.956	-557.56	1,636.42	8,578.74	8,479.76	98.98	86.675		
20,600.00	12,644.00	19,177.00	10,931.61	129.21	127.47	-48.956	-557.56	1,636.42	8,674.06	8,575.27	98.79	87.805		
20,700.00	12,644.00	19,177.00	10,931.61	130.63	127.47	-48.956	-557.56	1,636.42	8,769.48	8,670.88	98.61	88.933		
20,800.00	12,644.00	19,177.00	10,931.61	132.04	127.47	-48.956	-557.56	1,636.42	8,865.01	8,766.57	98.43	90.060		
20,900.00	12,644.00	19,177.00	10,931.61	133.46	127.47	-48.956	-557.56	1,636.42	8,960.63	8,862.36	98.27	91.185		
21,000.00	12,644.00	19,177.00	10,931.61	134.88	127.47	-48.956	-557.56	1,636.42	9,056.35	8,958.24	98.11	92.308		
21,100.00	12,644.00	19,177.00	10,931.61	136.29	127.47	-48.956	-557.56	1,636.42	9,152.16	9,054.20	97.96	93.430		
21,200.00	12,644.00	19,177.00	10,931.61	137.71	127.47	-48.956	-557.56	1,636.42	9,248.06	9,150.25	97.81	94.550		
21,300.00	12,644.00	19,177.00	10,931.61	139.13	127.47	-48.956	-557.56	1,636.42	9,344.04	9,246.37	97.67	95.668		
21,400.00	12,644.00	19,177.00	10,931.61	140.54	127.47	-48.956	-557.56	1,636.42	9,440.11	9,342.57	97.54	96.784		
21,500.00	12,644.00	19,177.00	10,931.61	141.96	127.47	-48.956	-557.56	1,636.42	9,536.26	9,438.85	97.41	97.898		
21,600.00	12,644.00	19,177.00	10,931.61	143.38	127.47	-48.956	-557.56	1,636.42	9,632.49	9,535.20	97.29	99.010		
21,700.00	12,644.00	19,177.00	10,931.61	144.80	127.47	-48.956	-557.56	1,636.42	9,728.79	9,631.62	97.17	100.120		
21,800.00	12,644.00	19,177.00	10,931.61	146.22	127.47	-48.956	-557.56	1,636.42	9,825.17	9,728.11	97.06	101.227		
21,900.00	12,644.00	19,177.00	10,931.61	147.64	127.47	-48.956	-557.56	1,636.42	9,921.62	9,824.66	96.96	102.331		
22,000.00	12,644.00	19,177.00	10,931.61	149.06	127.47	-48.956	-557.56	1,636.42	10,018.14	9,921.28	96.86	103.434		
22,100.00	12,644.00	19,177.00	10,931.61	150.48	127.47	-48.956	-557.56	1,636.42	10,114.72	10,017.96	96.76	104.533		
22,199.47	12,644.00	19,177.00	10,931.61	151.89	127.47	-48.956	-557.56	1,636.42	10,210.86	10,114.19	96.67	105.624		

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 403H - OH / 68704 - Surveys (H&P 656)													Offset Site Error: 0.00 usft
Survey Program: 188-MWD+HDGM													Offset Well Error: 1.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	61.76	9.76	1.00	1.00	-0.125	7,906.83	-17.21	7,906.85				
100.00	100.00	180.53	128.53	1.08	1.04	-0.128	7,906.54	-17.71	7,906.61	7,904.49	2.12	3,725.824	
200.00	200.00	274.89	222.89	1.60	1.17	-0.133	7,906.22	-18.38	7,906.28	7,903.51	2.77	2,859.059	
300.00	300.00	367.55	315.54	2.01	1.37	-0.139	7,906.00	-19.19	7,906.03	7,902.66	3.38	2,340.943	
400.00	400.00	460.04	408.03	2.35	1.61	-0.145	7,905.86	-20.01	7,905.89	7,901.92	3.96	1,994.112	
500.00	500.00	555.78	503.76	2.65	1.89	-0.151	7,905.80	-20.82	7,905.82	7,901.28	4.55	1,738.654	
600.00	600.00	657.47	605.45	2.93	2.21	-0.157	7,905.73	-21.70	7,905.77	7,900.63	5.14	1,538.764	
700.00	700.00	754.98	702.96	3.18	2.53	-0.164	7,905.67	-22.59	7,905.70	7,900.00	5.71	1,385.523	
753.91	753.91	805.93	753.91	3.31	2.70	-0.167	7,905.66	-23.08	7,905.69	7,899.69	6.00	1,317.378	
800.00	800.00	849.50	797.47	3.41	2.84	-0.170	7,905.66	-23.51	7,905.70	7,899.44	6.26	1,263.862	
900.00	900.00	949.75	897.71	3.64	3.18	-0.178	7,905.70	-24.54	7,905.74	7,898.93	6.82	1,159.924	
1,000.00	1,000.00	1,053.14	1,001.10	3.85	3.54	-0.186	7,905.71	-25.60	7,905.75	7,898.37	7.38	1,071.214	
1,025.66	1,025.66	1,077.51	1,025.47	3.90	3.62	-0.187	7,905.70	-25.85	7,905.75	7,898.23	7.52	1,051.908	
1,100.00	1,100.00	1,139.23	1,087.18	4.05	3.83	-0.192	7,905.77	-26.55	7,905.83	7,897.95	7.88	1,003.478	
1,200.00	1,200.00	1,239.09	1,187.03	4.24	4.18	-0.203	7,905.93	-27.95	7,905.99	7,897.57	8.42	939.219	
1,300.00	1,300.00	1,336.32	1,284.26	4.43	4.50	-0.208	7,906.10	-28.75	7,906.17	7,897.24	8.93	885.645	
1,400.00	1,400.00	1,425.00	1,372.94	4.61	4.80	-0.205	7,906.30	-28.30	7,906.39	7,896.99	9.40	840.839	
1,500.00	1,500.00	1,493.36	1,441.30	4.78	5.02	-0.199	7,906.63	-27.43	7,906.90	7,897.10	9.80	806.839	
1,600.00	1,599.98	1,556.16	1,504.09	4.98	5.22	153.808	7,907.25	-26.49	7,909.44	7,899.26	10.18	777.072	
1,700.00	1,699.84	1,614.00	1,561.91	5.60	5.41	153.771	7,908.08	-25.49	7,915.58	7,904.69	10.90	726.361	
1,718.18	1,717.96	1,636.91	1,584.81	5.62	5.49	153.766	7,908.46	-25.07	7,917.07	7,906.09	10.99	720.648	
1,800.00	1,799.55	1,709.35	1,657.23	5.72	5.73	153.793	7,909.72	-23.74	7,924.08	7,912.76	11.32	699.704	
1,900.00	1,899.26	1,803.00	1,750.85	5.89	6.04	153.829	7,911.48	-21.99	7,932.78	7,920.97	11.80	672.126	
2,000.00	1,998.97	1,850.82	1,798.64	6.09	6.21	153.848	7,912.55	-20.95	7,941.82	7,929.67	12.15	653.751	
2,100.00	2,098.68	1,901.50	1,849.28	6.30	6.38	153.870	7,913.98	-19.54	7,951.47	7,938.96	12.52	635.283	
2,200.00	2,198.39	1,993.00	1,940.66	6.53	6.69	153.917	7,917.36	-16.17	7,961.95	7,948.91	13.04	610.690	
2,300.00	2,298.10	2,012.78	1,960.40	6.77	6.76	153.928	7,918.19	-15.33	7,972.61	7,959.29	13.32	598.435	
2,400.00	2,397.81	2,117.26	2,064.68	7.02	7.12	153.987	7,922.57	-10.61	7,983.64	7,969.73	13.91	573.803	
2,500.00	2,497.52	2,214.23	2,161.46	7.28	7.45	154.044	7,926.59	-5.87	7,994.63	7,980.14	14.49	551.774	
2,600.00	2,597.23	2,298.99	2,246.02	7.55	7.75	154.097	7,930.21	-1.38	8,005.76	7,990.73	15.03	532.602	
2,700.00	2,696.94	2,371.00	2,317.84	7.83	8.00	154.143	7,933.40	2.68	8,017.08	8,001.55	15.54	516.035	
2,800.00	2,796.65	2,464.80	2,411.38	8.12	8.33	154.206	7,937.75	8.27	8,028.60	8,012.47	16.13	497.804	
2,900.00	2,896.36	2,561.00	2,507.27	8.42	8.67	154.271	7,942.44	14.29	8,040.36	8,023.62	16.74	480.446	
3,000.00	2,996.07	2,695.42	2,641.24	8.72	9.15	154.366	7,948.72	23.17	8,051.98	8,034.49	17.49	460.371	
3,100.00	3,095.78	2,874.01	2,819.29	9.03	9.78	154.495	7,955.42	35.37	8,062.59	8,044.17	18.41	437.869	
3,200.00	3,195.49	2,946.49	2,891.59	9.34	10.04	154.544	7,957.97	39.87	8,073.04	8,054.09	18.95	425.920	
3,300.00	3,295.20	3,033.00	2,977.90	9.66	10.35	154.598	7,961.34	44.73	8,083.85	8,064.30	19.55	413.477	
3,400.00	3,394.91	3,097.91	3,042.68	9.98	10.58	154.634	7,964.06	47.70	8,094.93	8,074.86	20.07	403.315	
3,500.00	3,494.62	3,178.48	3,123.14	10.30	10.87	154.670	7,967.63	50.15	8,106.27	8,085.61	20.65	392.525	
3,600.00	3,594.33	3,223.00	3,167.60	10.63	11.03	154.686	7,969.68	50.91	8,117.93	8,096.83	21.10	384.707	
3,700.00	3,694.04	3,317.53	3,262.00	10.96	11.36	154.716	7,974.40	52.25	8,129.82	8,108.08	21.74	373.982	
3,800.00	3,793.75	3,559.05	3,503.21	11.29	12.23	154.800	7,985.74	56.33	8,141.81	8,118.89	22.92	355.206	
3,900.00	3,893.47	3,624.01	3,568.11	11.63	12.46	154.823	7,988.18	57.54	8,152.46	8,129.01	23.46	347.563	
4,000.00	3,993.18	3,974.87	3,918.81	11.97	13.70	154.927	7,996.48	61.14	8,161.57	8,136.53	25.03	326.021	
4,100.00	4,092.89	4,073.00	4,016.93	12.31	14.05	154.950	7,997.58	61.21	8,169.57	8,143.88	25.69	317.968	
4,200.00	4,192.60	4,137.33	4,081.25	12.65	14.28	154.965	7,998.44	61.28	8,177.74	8,151.50	26.23	311.734	
4,300.00	4,292.31	4,231.75	4,175.67	13.00	14.61	154.986	7,999.75	61.23	8,186.03	8,159.14	26.88	304.501	
4,400.00	4,392.02	4,267.68	4,215.01	13.34	14.94	155.000	-243.94	311.50	8,172.19	8,095.68	76.51	106.816	
4,500.00	4,491.73	4,267.73	4,215.01	13.69	15.23	155.000	-245.99	311.51	8,072.73	7,996.04	76.68	105.271	
4,600.00	4,591.44	4,267.71	4,215.01	14.04	15.53	155.000	-248.07	311.53	7,973.28	7,896.41	76.87	103.729	
4,700.00	4,691.15	4,267.93	4,215.01	14.39	15.83	155.000	-250.19	311.55	7,873.84	7,796.79	77.05	102.190	
4,800.00	4,790.86	4,268.08	4,215.01	14.74	16.13	155.000	-252.34	311.57	7,774.42	7,697.18	77.24	100.654	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 403H - OH / 68704 - Surveys (H&P 656)												Offset Site Error:	0.00 usft
Survey Program: 188-MWD+HDGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Offset												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,900.00	4,890.57	20,684.27	12,553.95	15.10	126.35	-152.135	-254.53	311.59	7,675.01	7,597.58	77.43	99.121	
5,000.00	4,990.28	20,686.49	12,553.94	15.45	126.38	-152.011	-256.75	311.61	7,575.62	7,497.99	77.63	97.592	
5,100.00	5,089.99	20,688.76	12,553.94	15.81	126.41	-151.885	-259.02	311.63	7,476.24	7,398.41	77.82	96.066	
5,200.00	5,189.70	20,691.06	12,553.93	16.16	126.44	-151.756	-261.32	311.65	7,376.87	7,298.84	78.03	94.544	
5,300.00	5,289.41	20,693.40	12,553.92	16.52	126.47	-151.624	-263.66	311.67	7,277.52	7,199.29	78.23	93.026	
5,400.00	5,389.12	20,724.00	12,553.97	16.88	126.88	-149.868	-294.26	311.96	7,178.34	7,099.68	78.65	91.264	
5,500.00	5,488.83	20,724.00	12,553.97	17.24	126.88	-149.868	-294.26	311.96	7,078.99	7,000.14	78.85	89.779	
5,600.00	5,588.54	20,724.00	12,553.97	17.59	126.88	-149.868	-294.26	311.96	6,979.67	6,900.62	79.05	88.299	
5,700.00	5,688.25	20,724.00	12,553.97	17.95	126.88	-149.868	-294.26	311.96	6,880.36	6,801.12	79.25	86.822	
5,800.00	5,787.96	20,724.00	12,553.97	18.32	126.88	-149.868	-294.26	311.96	6,781.08	6,701.63	79.45	85.349	
5,900.00	5,887.67	20,724.00	12,553.97	18.68	126.88	-149.868	-294.26	311.96	6,681.81	6,602.16	79.66	83.880	
6,000.00	5,987.38	20,724.00	12,553.97	19.04	126.88	-149.868	-294.26	311.96	6,582.57	6,502.70	79.87	82.416	
6,100.00	6,087.09	20,724.00	12,553.97	19.40	126.88	-149.868	-294.26	311.96	6,483.36	6,403.27	80.09	80.955	
6,200.00	6,186.80	20,724.00	12,553.97	19.76	126.88	-149.868	-294.26	311.96	6,384.16	6,303.86	80.30	79.500	
6,300.00	6,286.51	20,724.00	12,553.97	20.13	126.88	-149.868	-294.26	311.96	6,284.99	6,204.47	80.53	78.048	
6,400.00	6,386.22	20,724.00	12,553.97	20.49	126.88	-149.868	-294.26	311.96	6,185.85	6,105.10	80.75	76.602	
6,500.00	6,485.93	20,729.68	12,554.00	20.86	126.96	-149.534	-299.93	312.02	6,086.74	6,005.71	81.03	75.119	
6,600.00	6,585.64	20,744.65	12,554.06	21.22	127.16	-148.639	-314.91	312.20	5,987.64	5,906.26	81.38	73.580	
6,700.00	6,685.35	20,759.01	12,554.10	21.59	127.36	-147.764	-329.27	312.40	5,888.55	5,806.83	81.72	72.054	
6,800.00	6,785.06	20,772.78	12,554.12	21.95	127.54	-146.908	-343.03	312.63	5,789.48	5,707.41	82.07	70.541	
6,900.00	6,884.77	20,786.00	12,554.12	22.32	127.72	-146.071	-356.25	312.87	5,690.42	5,608.00	82.42	69.041	
7,000.00	6,984.48	20,798.70	12,554.10	22.68	127.89	-145.253	-368.95	313.13	5,591.38	5,508.61	82.77	67.553	
7,100.00	7,084.19	20,810.92	12,554.07	23.05	128.06	-144.453	-381.16	313.41	5,492.37	5,409.25	83.12	66.078	
7,200.00	7,183.90	20,822.67	12,554.03	23.42	128.22	-143.672	-392.91	313.69	5,393.37	5,309.90	83.47	64.614	
7,300.00	7,283.61	20,833.98	12,553.97	23.78	128.37	-142.910	-404.22	313.99	5,294.40	5,210.57	83.82	63.161	
7,400.00	7,383.32	20,813.06	12,554.04	24.15	128.09	-144.310	-383.30	313.49	5,195.49	5,111.55	83.94	61.898	
7,500.00	7,483.03	20,818.00	12,554.05	24.52	128.15	-143.984	-388.24	313.58	5,096.61	5,012.36	84.25	60.493	
7,600.00	7,582.74	20,818.00	12,554.05	24.89	128.15	-143.984	-388.24	313.58	4,997.78	4,913.24	84.53	59.121	
7,700.00	7,682.45	20,818.00	12,554.05	25.25	128.15	-143.984	-388.24	313.58	4,898.99	4,814.17	84.82	57.755	
7,800.00	7,782.16	20,840.58	12,554.00	25.62	128.46	-142.460	-410.82	314.17	4,800.16	4,714.87	85.29	56.280	
7,900.00	7,881.87	20,844.32	12,554.00	25.99	128.51	-142.204	-414.55	314.28	4,701.44	4,615.82	85.62	54.910	
8,000.00	7,981.58	20,848.12	12,554.00	26.36	128.56	-141.942	-418.35	314.39	4,602.77	4,516.82	85.96	53.547	
8,100.00	8,081.29	20,851.98	12,554.00	26.73	128.61	-141.675	-422.21	314.51	4,504.16	4,417.86	86.30	52.190	
8,200.00	8,181.00	20,855.90	12,554.01	27.10	128.67	-141.403	-426.13	314.63	4,405.60	4,318.94	86.66	50.840	
8,300.00	8,280.71	20,859.89	12,554.02	27.47	128.72	-141.125	-430.12	314.75	4,307.10	4,220.08	87.02	49.497	
8,400.00	8,380.42	20,863.95	12,554.03	27.84	128.77	-140.841	-434.17	314.88	4,208.66	4,121.28	87.39	48.161	
8,500.00	8,480.13	20,868.07	12,554.04	28.21	128.83	-140.550	-438.29	315.01	4,110.30	4,022.53	87.77	46.832	
8,600.00	8,579.84	20,872.26	12,554.06	28.58	128.89	-140.254	-442.48	315.15	4,012.00	3,923.85	88.16	45.509	
8,700.00	8,679.55	20,876.53	12,554.08	28.95	128.95	-139.951	-446.75	315.30	3,913.79	3,825.23	88.56	44.194	
8,800.00	8,779.26	20,880.87	12,554.10	29.32	129.00	-139.641	-451.08	315.45	3,815.66	3,726.69	88.97	42.886	
8,900.00	8,878.97	20,885.28	12,554.13	29.69	129.06	-139.325	-455.50	315.61	3,717.62	3,628.22	89.40	41.585	
9,000.00	8,978.68	20,889.78	12,554.16	30.06	129.13	-139.001	-459.99	315.77	3,619.68	3,529.84	89.84	40.292	
9,100.00	9,078.39	20,912.00	12,554.35	30.43	129.43	-137.379	-482.19	316.63	3,521.92	3,431.49	90.42	38.949	
9,200.00	9,178.10	20,912.00	12,554.35	30.80	129.43	-137.379	-482.19	316.63	3,424.17	3,333.31	90.86	37.687	
9,300.00	9,277.81	20,912.00	12,554.35	31.17	129.43	-137.379	-482.19	316.63	3,326.55	3,235.24	91.31	36.431	
9,400.00	9,377.52	20,912.00	12,554.35	31.54	129.43	-137.379	-482.19	316.63	3,229.08	3,137.29	91.78	35.182	
9,500.00	9,477.23	20,914.31	12,554.38	31.91	129.46	-137.208	-484.50	316.72	3,131.76	3,039.47	92.29	33.933	
9,600.00	9,576.94	20,922.04	12,554.45	32.29	129.56	-136.635	-492.22	317.03	3,034.61	2,941.74	92.86	32.678	
9,700.00	9,676.65	20,929.77	12,554.53	32.66	129.67	-136.059	-499.94	317.35	2,937.63	2,844.16	93.46	31.431	
9,800.00	9,776.36	20,937.49	12,554.61	33.03	129.77	-135.478	-507.66	317.66	2,840.83	2,746.74	94.09	30.193	
9,900.00	9,876.07	20,945.22	12,554.69	33.40	129.88	-134.894	-515.38	317.97	2,744.25	2,649.50	94.75	28.964	
10,000.00	9,975.78	20,952.94	12,554.77	33.77	129.98	-134.306	-523.10	318.29	2,647.89	2,552.45	95.44	27.744	

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



Anticollision Report



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Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 403H - OH / 68704 - Surveys (H&P 656)													Offset Site Error: 0.00 usft
Survey Program: 188-MWD+HDCM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,100.00	10,075.49	20,960.67	12,554.85	34.14	130.09	-133.715	-530.82	318.60	2,551.79	2,455.62	96.17	26.533	
10,200.00	10,175.20	20,968.39	12,554.93	34.52	130.19	-133.121	-538.53	318.91	2,455.98	2,359.03	96.95	25.332	
10,300.00	10,274.91	20,976.12	12,555.01	34.89	130.30	-132.523	-546.25	319.22	2,360.49	2,262.71	97.78	24.140	
10,400.00	10,374.62	20,983.84	12,555.09	35.26	130.40	-131.922	-553.97	319.54	2,265.36	2,166.69	98.68	22.958	
10,500.00	10,474.33	20,991.00	12,555.16	35.63	130.50	-131.363	-561.12	319.83	2,170.65	2,071.02	99.63	21.786	
10,600.00	10,574.04	20,991.00	12,555.16	36.01	130.50	-131.363	-561.12	319.83	2,076.42	1,975.80	100.62	20.636	
10,700.00	10,673.75	20,991.00	12,555.16	36.38	130.50	-131.363	-561.12	319.83	1,982.75	1,881.04	101.71	19.495	
10,800.00	10,773.46	20,991.00	12,555.16	36.75	130.50	-131.363	-561.12	319.83	1,889.73	1,786.83	102.90	18.365	
10,900.00	10,873.18	20,991.00	12,555.16	37.12	130.50	-131.363	-561.12	319.83	1,797.46	1,693.24	104.22	17.246	
11,000.00	10,972.89	20,991.00	12,555.16	37.50	130.50	-131.363	-561.12	319.83	1,706.07	1,600.37	105.70	16.141	
11,100.00	11,072.60	20,991.00	12,555.16	37.87	130.50	-131.363	-561.12	319.83	1,615.69	1,508.34	107.35	15.050	
11,200.00	11,172.31	20,991.00	12,555.16	38.24	130.50	-131.363	-561.12	319.83	1,526.52	1,417.30	109.22	13.977	
11,300.00	11,272.02	20,991.00	12,555.16	38.62	130.50	-131.363	-561.12	319.83	1,438.76	1,327.44	111.33	12.924	
11,381.30	11,353.08	20,991.00	12,555.16	38.92	130.50	-131.363	-561.12	319.83	1,368.66	1,255.41	113.25	12.085	
11,400.00	11,371.73	20,991.00	12,555.16	38.98	130.50	-130.900	-561.12	319.83	1,352.69	1,238.97	113.72	11.894	
11,500.00	11,471.59	20,991.00	12,555.16	39.34	130.50	-128.431	-561.12	319.83	1,267.83	1,151.42	116.41	10.891	
11,599.47	11,571.04	20,991.00	12,555.16	39.49	130.50	79.979	-561.12	319.83	1,184.52	1,065.20	119.32	9.927	
11,600.00	11,571.57	20,991.00	12,555.16	39.49	130.50	79.979	-561.12	319.83	1,184.08	1,064.74	119.34	9.922	
11,700.00	11,671.57	20,991.00	12,555.16	39.52	130.50	79.979	-561.12	319.83	1,102.42	979.82	122.60	8.992	
11,800.00	11,771.57	20,991.00	12,555.16	39.52	130.50	79.979	-561.12	319.83	1,024.02	897.71	126.30	8.108	
11,900.00	11,871.57	20,991.00	12,555.16	39.53	130.50	79.979	-561.12	319.83	949.68	819.20	130.47	7.279	
12,000.00	11,971.57	20,991.00	12,555.16	39.54	130.50	79.979	-561.12	319.83	880.44	745.35	135.09	6.517	
12,099.47	12,071.04	20,991.00	12,555.16	39.54	130.50	79.979	-561.12	319.83	817.90	677.87	140.03	5.841	
12,100.00	12,071.57	20,991.00	12,555.16	39.55	130.50	-99.506	-561.12	319.83	817.59	677.53	140.06	5.837	
12,150.00	12,121.50	20,991.00	12,555.16	39.65	130.50	-102.858	-561.12	319.83	789.39	646.75	142.64	5.534	
12,200.00	12,171.05	20,991.00	12,555.16	39.91	130.50	-105.676	-561.12	319.83	764.27	619.01	145.27	5.261	
12,250.00	12,219.84	20,991.00	12,555.16	40.20	130.50	-107.961	-561.12	319.83	742.75	594.91	147.84	5.024	
12,300.00	12,267.50	20,991.00	12,555.16	40.50	130.50	-109.724	-561.12	319.83	725.31	575.06	150.26	4.827	
12,350.00	12,313.66	20,991.00	12,555.16	40.80	130.50	-110.979	-561.12	319.83	712.40	560.00	152.39	4.675	
12,400.00	12,357.98	20,991.00	12,555.16	41.09	130.50	-111.739	-561.12	319.83	704.35	550.22	154.13	4.570	
12,450.00	12,400.11	20,991.00	12,555.16	41.38	130.50	-112.013	-561.12	319.83	701.40	546.04	155.37	4.514	
12,453.41	12,402.89	20,991.00	12,555.16	41.40	130.50	-112.014	-561.12	319.83	701.39	545.96	155.43	4.513 CC, ES	
12,500.00	12,439.74	20,991.00	12,555.16	41.66	130.50	-111.805	-561.12	319.83	703.64	547.62	156.02	4.510 SF	
12,550.00	12,476.56	20,991.00	12,555.16	41.92	130.50	-111.111	-561.12	319.83	711.01	554.93	156.07	4.556	
12,600.00	12,510.29	20,991.00	12,555.16	42.16	130.50	-109.924	-561.12	319.83	723.28	567.74	155.53	4.650	
12,650.00	12,540.68	20,991.00	12,555.16	42.39	130.50	-108.231	-561.12	319.83	740.12	585.66	154.46	4.792	
12,700.00	12,567.50	20,991.00	12,555.16	42.58	130.50	-106.018	-561.12	319.83	761.12	608.16	152.95	4.976	
12,750.00	12,590.54	20,991.00	12,555.16	42.76	130.50	-103.274	-561.12	319.83	785.78	634.67	151.10	5.200	
12,800.00	12,609.63	20,991.00	12,555.16	42.91	130.50	-99.994	-561.12	319.83	813.59	664.57	149.01	5.460	
12,850.00	12,624.61	20,991.00	12,555.16	43.03	130.50	-96.191	-561.12	319.83	844.03	697.26	146.77	5.751	
12,900.00	12,635.39	20,991.00	12,555.16	43.12	130.50	-91.902	-561.12	319.83	876.63	732.17	144.46	6.068	
12,950.00	12,641.87	20,991.00	12,555.16	43.19	130.50	-87.194	-561.12	319.83	910.91	768.78	142.13	6.409	
12,999.47	12,644.00	20,991.00	12,555.16	43.23	130.50	-82.221	-561.12	319.83	946.06	806.20	139.86	6.765	
13,000.00	12,644.00	20,991.00	12,555.16	43.24	130.50	-82.221	-561.12	319.83	946.43	806.60	139.83	6.768	
13,100.00	12,644.00	20,991.00	12,555.16	43.31	130.50	-82.221	-561.12	319.83	1,020.84	885.43	135.42	7.538	
13,200.00	12,644.00	20,991.00	12,555.16	43.39	130.50	-82.221	-561.12	319.83	1,099.32	968.00	131.32	8.371	
13,300.00	12,644.00	20,991.00	12,555.16	43.50	130.50	-82.221	-561.12	319.83	1,181.06	1,053.47	127.59	9.257	
13,400.00	12,644.00	20,991.00	12,555.16	43.63	130.50	-82.221	-561.12	319.83	1,265.42	1,141.19	124.23	10.186	
13,500.00	12,644.00	20,991.00	12,555.16	43.78	130.50	-82.221	-561.12	319.83	1,351.91	1,230.69	121.22	11.152	
13,600.00	12,644.00	20,991.00	12,555.16	43.96	130.50	-82.221	-561.12	319.83	1,440.15	1,321.61	118.54	12.149	
13,700.00	12,644.00	20,991.00	12,555.16	44.18	130.50	-82.221	-561.12	319.83	1,529.85	1,413.69	116.16	13.170	
13,800.00	12,644.00	20,991.00	12,555.16	44.44	130.50	-82.221	-561.12	319.83	1,620.75	1,506.71	114.04	14.212	

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Anticollision Report



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Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 403H - OH / 68704 - Surveys (H&P 656)												Offset Site Error:	0.00 usft
Survey Program: 188-MWD+H2GM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
13,900.00	12,644.00	20,991.00	12,555.16	44.74	130.50	-82.221	-561.12	319.83	1,712.66	1,600.51	112.15	15.272	
14,000.00	12,644.00	20,991.00	12,555.16	45.11	130.50	-82.221	-561.12	319.83	1,805.43	1,694.98	110.46	16.345	
14,100.00	12,644.00	20,991.00	12,555.16	45.54	130.50	-82.221	-561.12	319.83	1,898.94	1,789.99	108.95	17.430	
14,200.00	12,644.00	20,991.00	12,555.16	46.05	130.50	-82.221	-561.12	319.83	1,993.08	1,885.49	107.59	18.525	
14,300.00	12,644.00	20,991.00	12,555.16	46.65	130.50	-82.221	-561.12	319.83	2,087.76	1,981.39	106.37	19.627	
14,400.00	12,644.00	20,991.00	12,555.16	47.33	130.50	-82.221	-561.12	319.83	2,182.92	2,077.64	105.28	20.735	
14,500.00	12,644.00	20,991.00	12,555.16	48.09	130.50	-82.221	-561.12	319.83	2,278.49	2,174.20	104.29	21.848	
14,600.00	12,644.00	20,991.00	12,555.16	48.94	130.50	-82.221	-561.12	319.83	2,374.42	2,271.03	103.39	22.965	
14,700.00	12,644.00	20,991.00	12,555.16	49.86	130.50	-82.221	-561.12	319.83	2,470.68	2,368.10	102.58	24.085	
14,800.00	12,644.00	20,991.00	12,555.16	50.85	130.50	-82.221	-561.12	319.83	2,567.23	2,465.38	101.85	25.207	
14,900.00	12,644.00	20,991.00	12,555.16	51.89	130.50	-82.221	-561.12	319.83	2,664.03	2,562.85	101.18	26.330	
15,000.00	12,644.00	20,991.00	12,555.16	52.99	130.50	-82.221	-561.12	319.83	2,761.06	2,660.49	100.57	27.455	
15,100.00	12,644.00	20,991.00	12,555.16	54.12	130.50	-82.221	-561.12	319.83	2,858.29	2,758.28	100.01	28.580	
15,200.00	12,644.00	20,991.00	12,555.16	55.29	130.50	-82.221	-561.12	319.83	2,955.71	2,856.21	99.50	29.706	
15,300.00	12,644.00	20,991.00	12,555.16	56.49	130.50	-82.221	-561.12	319.83	3,053.29	2,954.26	99.03	30.831	
15,400.00	12,644.00	20,991.00	12,555.16	57.72	130.50	-82.221	-561.12	319.83	3,151.03	3,052.42	98.60	31.956	
15,500.00	12,644.00	20,991.00	12,555.16	58.96	130.50	-82.221	-561.12	319.83	3,248.90	3,150.69	98.21	33.081	
15,600.00	12,644.00	20,991.00	12,555.16	60.22	130.50	-82.221	-561.12	319.83	3,346.90	3,249.05	97.85	34.204	
15,700.00	12,644.00	20,991.00	12,555.16	61.50	130.50	-82.221	-561.12	319.83	3,445.01	3,347.50	97.52	35.327	
15,800.00	12,644.00	20,991.00	12,555.16	62.79	130.50	-82.221	-561.12	319.83	3,543.23	3,446.02	97.21	36.448	
15,900.00	12,644.00	20,991.00	12,555.16	64.09	130.50	-82.221	-561.12	319.83	3,641.55	3,544.62	96.93	37.568	
16,000.00	12,644.00	20,991.00	12,555.16	65.40	130.50	-82.221	-561.12	319.83	3,739.96	3,643.28	96.67	38.686	
16,100.00	12,644.00	20,991.00	12,555.16	66.72	130.50	-82.221	-561.12	319.83	3,838.45	3,742.01	96.44	39.803	
16,200.00	12,644.00	20,991.00	12,555.16	68.04	130.50	-82.221	-561.12	319.83	3,937.01	3,840.79	96.22	40.918	
16,300.00	12,644.00	20,991.00	12,555.16	69.38	130.50	-82.221	-561.12	319.83	4,035.64	3,939.63	96.02	42.031	
16,400.00	12,644.00	20,991.00	12,555.16	70.72	130.50	-82.221	-561.12	319.83	4,134.35	4,038.52	95.83	43.143	
16,500.00	12,644.00	20,991.00	12,555.16	72.07	130.50	-82.221	-561.12	319.83	4,233.11	4,137.45	95.66	44.252	
16,600.00	12,644.00	20,991.00	12,555.16	73.42	130.50	-82.221	-561.12	319.83	4,331.93	4,236.42	95.50	45.360	
16,700.00	12,644.00	20,991.00	12,555.16	74.77	130.50	-82.221	-561.12	319.83	4,430.80	4,335.44	95.36	46.465	
16,800.00	12,644.00	20,991.00	12,555.16	76.13	130.50	-82.221	-561.12	319.83	4,529.72	4,434.49	95.23	47.568	
16,900.00	12,644.00	20,991.00	12,555.16	77.49	130.50	-82.221	-561.12	319.83	4,628.69	4,533.58	95.11	48.669	
17,000.00	12,644.00	20,991.00	12,555.16	78.86	130.50	-82.221	-561.12	319.83	4,727.70	4,632.70	95.00	49.768	
17,100.00	12,644.00	20,991.00	12,555.16	80.23	130.50	-82.221	-561.12	319.83	4,826.75	4,731.85	94.89	50.864	
17,200.00	12,644.00	20,991.00	12,555.16	81.60	130.50	-82.221	-561.12	319.83	4,925.84	4,831.04	94.80	51.958	
17,300.00	12,644.00	20,991.00	12,555.16	82.98	130.50	-82.221	-561.12	319.83	5,024.97	4,930.24	94.72	53.050	
17,400.00	12,644.00	20,991.00	12,555.16	84.36	130.50	-82.221	-561.12	319.83	5,124.13	5,029.48	94.65	54.140	
17,500.00	12,644.00	20,991.00	12,555.16	85.74	130.50	-82.221	-561.12	319.83	5,223.32	5,128.74	94.58	55.227	
17,600.00	12,644.00	20,991.00	12,555.16	87.12	130.50	-82.221	-561.12	319.83	5,322.54	5,228.02	94.52	56.311	
17,700.00	12,644.00	20,991.00	12,555.16	88.51	130.50	-82.221	-561.12	319.83	5,421.79	5,327.32	94.47	57.393	
17,800.00	12,644.00	20,991.00	12,555.16	89.89	130.50	-82.221	-561.12	319.83	5,521.07	5,426.65	94.42	58.472	
17,900.00	12,644.00	20,991.00	12,555.16	91.28	130.50	-82.221	-561.12	319.83	5,620.37	5,525.99	94.38	59.549	
18,000.00	12,644.00	20,991.00	12,555.16	92.67	130.50	-82.221	-561.12	319.83	5,719.70	5,625.35	94.35	60.624	
18,100.00	12,644.00	20,991.00	12,555.16	94.07	130.50	-82.221	-561.12	319.83	5,819.05	5,724.73	94.32	61.695	
18,200.00	12,644.00	20,991.00	12,555.16	95.46	130.50	-82.221	-561.12	319.83	5,918.42	5,824.13	94.30	62.764	
18,300.00	12,644.00	20,991.00	12,555.16	96.85	130.50	-82.221	-561.12	319.83	6,017.82	5,923.54	94.28	63.831	
18,400.00	12,644.00	20,991.00	12,555.16	98.25	130.50	-82.221	-561.12	319.83	6,117.23	6,022.97	94.26	64.894	
18,500.00	12,644.00	20,991.00	12,555.16	99.65	130.50	-82.221	-561.12	319.83	6,216.66	6,122.41	94.26	65.955	
18,600.00	12,644.00	20,991.00	12,555.16	101.05	130.50	-82.221	-561.12	319.83	6,316.11	6,221.86	94.25	67.013	
18,700.00	12,644.00	20,991.00	12,555.16	102.45	130.50	-82.221	-561.12	319.83	6,415.58	6,321.33	94.25	68.068	
18,800.00	12,644.00	20,991.00	12,555.16	103.85	130.50	-82.221	-561.12	319.83	6,515.06	6,420.81	94.26	69.121	
18,900.00	12,644.00	20,991.00	12,555.16	105.25	130.50	-82.221	-561.12	319.83	6,614.56	6,520.30	94.26	70.171	
19,000.00	12,644.00	20,991.00	12,555.16	106.65	130.50	-82.221	-561.12	319.83	6,714.08	6,619.80	94.28	71.218	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 403H - OH / 68704 - Surveys (H&P 656)												Offset Site Error:	0.00 usft
Survey Program: 188-MWD+HDGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
19,100.00	12,644.00	20,991.00	12,555.16	108.06	130.50	-82.221	-561.12	319.83	6,813.60	6,719.31	94.29	72.262	
19,200.00	12,644.00	20,991.00	12,555.16	109.46	130.50	-82.221	-561.12	319.83	6,913.15	6,818.84	94.31	73.303	
19,300.00	12,644.00	20,991.00	12,555.16	110.87	130.50	-82.221	-561.12	319.83	7,012.70	6,918.37	94.33	74.341	
19,400.00	12,644.00	20,991.00	12,555.16	112.28	130.50	-82.221	-561.12	319.83	7,112.27	7,017.91	94.36	75.377	
19,500.00	12,644.00	20,991.00	12,555.16	113.68	130.50	-82.221	-561.12	319.83	7,211.85	7,117.46	94.38	76.409	
19,600.00	12,644.00	20,991.00	12,555.16	115.09	130.50	-82.221	-561.12	319.83	7,311.44	7,217.02	94.42	77.439	
19,700.00	12,644.00	20,991.00	12,555.16	116.50	130.50	-82.221	-561.12	319.83	7,411.04	7,316.59	94.45	78.465	
19,800.00	12,644.00	20,991.00	12,555.16	117.91	130.50	-82.221	-561.12	319.83	7,510.65	7,416.16	94.49	79.489	
19,900.00	12,644.00	20,991.00	12,555.16	119.32	130.50	-82.221	-561.12	319.83	7,610.27	7,515.75	94.53	80.509	
20,000.00	12,644.00	20,991.00	12,555.16	120.73	130.50	-82.221	-561.12	319.83	7,709.91	7,615.34	94.57	81.527	
20,100.00	12,644.00	20,991.00	12,555.16	122.15	130.50	-82.221	-561.12	319.83	7,809.55	7,714.93	94.61	82.542	
20,200.00	12,644.00	20,991.00	12,555.16	123.56	130.50	-82.221	-561.12	319.83	7,909.20	7,814.54	94.66	83.553	
20,300.00	12,644.00	20,991.00	12,555.16	124.97	130.50	-82.221	-561.12	319.83	8,008.86	7,914.15	94.71	84.562	
20,400.00	12,644.00	20,991.00	12,555.16	126.38	130.50	-82.221	-561.12	319.83	8,108.53	8,013.76	94.76	85.567	
20,500.00	12,644.00	20,991.00	12,555.16	127.80	130.50	-82.221	-561.12	319.83	8,208.20	8,113.39	94.82	86.569	
20,600.00	12,644.00	20,991.00	12,555.16	129.21	130.50	-82.221	-561.12	319.83	8,307.89	8,213.01	94.87	87.569	
20,700.00	12,644.00	20,991.00	12,555.16	130.63	130.50	-82.221	-561.12	319.83	8,407.58	8,312.65	94.93	88.565	
20,800.00	12,644.00	20,991.00	12,555.16	132.04	130.50	-82.221	-561.12	319.83	8,507.28	8,412.28	94.99	89.558	
20,900.00	12,644.00	20,991.00	12,555.16	133.46	130.50	-82.221	-561.12	319.83	8,606.98	8,511.93	95.05	90.548	
21,000.00	12,644.00	20,991.00	12,555.16	134.88	130.50	-82.221	-561.12	319.83	8,706.69	8,611.57	95.12	91.535	
21,100.00	12,644.00	20,991.00	12,555.16	136.29	130.50	-82.221	-561.12	319.83	8,806.41	8,711.23	95.19	92.518	
21,200.00	12,644.00	20,991.00	12,555.16	137.71	130.50	-82.221	-561.12	319.83	8,906.14	8,810.88	95.25	93.499	
21,300.00	12,644.00	20,991.00	12,555.16	139.13	130.50	-82.221	-561.12	319.83	9,005.87	8,910.54	95.32	94.476	
21,400.00	12,644.00	20,991.00	12,555.16	140.54	130.50	-82.221	-561.12	319.83	9,105.61	9,010.21	95.40	95.450	
21,500.00	12,644.00	20,991.00	12,555.16	141.96	130.50	-82.221	-561.12	319.83	9,205.35	9,109.88	95.47	96.421	
21,600.00	12,644.00	20,991.00	12,555.16	143.38	130.50	-82.221	-561.12	319.83	9,305.10	9,209.55	95.55	97.389	
21,700.00	12,644.00	20,991.00	12,555.16	144.80	130.50	-82.221	-561.12	319.83	9,404.85	9,309.23	95.62	98.354	
21,800.00	12,644.00	20,991.00	12,555.16	146.22	130.50	-82.221	-561.12	319.83	9,504.61	9,408.91	95.70	99.315	
21,900.00	12,644.00	20,991.00	12,555.16	147.64	130.50	-82.221	-561.12	319.83	9,604.37	9,508.59	95.78	100.274	
22,000.00	12,644.00	20,991.00	12,555.16	149.06	130.50	-82.221	-561.12	319.83	9,704.14	9,608.28	95.86	101.229	
22,100.00	12,644.00	20,991.00	12,555.16	150.48	130.50	-82.221	-561.12	319.83	9,803.91	9,707.97	95.95	102.180	
22,199.47	12,644.00	20,991.00	12,555.16	151.89	130.50	-82.221	-561.12	319.83	9,903.17	9,807.14	96.03	103.124	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 422H - OH / 68635 - Surveys (H&P 625)													Offset Site Error: 0.00 usft
Survey Program: 154-MWD+HDGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	54.29	0.29	1.00	1.00	-9.584	7,890.35	-1,332.31	8,002.04				
100.00	100.00	154.00	100.00	1.08	1.03	-9.590	7,890.20	-1,333.12	8,002.03	7,999.92	2.11	3,792.421	
200.00	200.00	254.51	200.50	1.60	1.16	-9.598	7,890.03	-1,334.21	8,002.04	7,999.28	2.76	2,899.956	
300.00	300.00	362.74	308.73	2.01	1.40	-9.604	7,889.83	-1,335.00	8,001.99	7,998.58	3.41	2,348.160	
400.00	400.00	473.39	419.38	2.35	1.70	-9.608	7,889.55	-1,335.51	8,001.81	7,997.76	4.05	1,975.097	
500.00	500.00	574.00	519.98	2.65	2.00	-9.612	7,889.15	-1,336.03	8,001.51	7,996.85	4.66	1,718.884	
600.00	600.00	669.38	615.36	2.93	2.30	-9.616	7,888.78	-1,336.60	8,001.23	7,996.00	5.23	1,529.856	
700.00	700.00	754.00	699.98	3.18	2.58	-9.621	7,888.59	-1,337.16	8,001.12	7,995.36	5.76	1,389.582	
728.81	728.81	782.83	728.81	3.25	2.68	-9.622	7,888.55	-1,337.36	8,001.11	7,995.19	5.92	1,351.358	
728.81	728.81	782.83	728.81	3.25	2.68	-9.622	7,888.55	-1,337.36	8,001.11	7,995.19	5.92	1,351.357	
800.00	800.00	848.35	794.33	3.41	2.89	-9.625	7,888.50	-1,337.79	8,001.14	7,994.83	6.31	1,268.637	
900.00	900.00	934.00	879.98	3.64	3.18	-9.629	7,888.52	-1,338.31	8,001.26	7,994.44	6.82	1,173.606	
1,000.00	1,000.00	1,027.62	973.60	3.85	3.50	-9.632	7,888.68	-1,338.76	8,001.51	7,994.17	7.34	1,089.904	
1,100.00	1,100.00	1,119.00	1,064.97	4.05	3.80	-9.633	7,889.01	-1,339.02	8,001.92	7,994.07	7.85	1,019.233	
1,200.00	1,200.00	1,278.03	1,224.00	4.24	4.34	-9.635	7,889.11	-1,339.37	8,002.03	7,993.45	8.58	932.231	
1,213.97	1,213.97	1,301.26	1,247.23	4.27	4.42	-9.636	7,889.01	-1,339.42	8,001.98	7,993.29	8.69	920.943	
1,300.00	1,300.00	1,322.13	1,268.10	4.43	4.49	-9.634	7,889.20	-1,339.19	8,002.12	7,993.20	8.92	897.445	
1,400.00	1,400.00	1,371.85	1,317.81	4.61	4.66	-9.629	7,889.67	-1,338.53	8,002.83	7,993.57	9.26	863.990	
1,500.00	1,500.00	1,454.00	1,399.92	4.78	4.93	-9.611	7,891.33	-1,336.32	8,004.30	7,994.59	9.71	824.139	
1,600.00	1,599.98	1,454.00	1,399.92	4.98	4.93	144.369	7,891.33	-1,336.32	8,007.60	7,997.73	9.87	811.170	
1,700.00	1,699.84	1,551.17	1,496.98	5.60	5.25	144.339	7,894.17	-1,332.90	8,014.16	8,003.50	10.65	752.162	
1,718.18	1,717.96	1,564.25	1,510.05	5.62	5.30	144.329	7,894.59	-1,332.44	8,015.70	8,004.99	10.71	748.546	
1,800.00	1,799.55	1,643.00	1,588.70	5.72	5.56	144.377	7,897.28	-1,329.66	8,023.03	8,011.97	11.06	725.315	
1,900.00	1,899.26	1,727.01	1,672.61	5.89	5.84	144.427	7,900.22	-1,326.76	8,032.09	8,020.58	11.50	698.275	
2,000.00	1,998.97	1,843.26	1,788.73	6.09	6.23	144.495	7,904.05	-1,322.97	8,041.00	8,028.92	12.07	666.038	
2,100.00	2,098.68	1,895.17	1,840.57	6.30	6.41	144.529	7,905.97	-1,320.88	8,050.14	8,037.71	12.44	647.238	
2,200.00	2,198.39	1,953.00	1,898.27	6.53	6.61	144.571	7,908.49	-1,317.89	8,059.81	8,046.97	12.83	628.066	
2,300.00	2,298.10	2,019.00	1,964.04	6.77	6.84	144.626	7,911.87	-1,313.59	8,070.00	8,056.73	13.27	608.335	
2,400.00	2,397.81	2,103.51	2,048.19	7.02	7.13	144.701	7,916.56	-1,307.38	8,080.51	8,066.73	13.78	586.525	
2,500.00	2,497.52	2,202.43	2,146.66	7.28	7.48	144.791	7,922.09	-1,299.84	8,091.05	8,076.70	14.35	563.915	
2,600.00	2,597.23	2,288.63	2,232.46	7.55	7.79	144.871	7,927.00	-1,293.05	8,101.68	8,086.79	14.88	544.294	
2,700.00	2,696.94	2,374.01	2,317.41	7.83	8.09	144.952	7,932.03	-1,286.18	8,112.49	8,097.06	15.43	525.910	
2,800.00	2,796.65	2,470.49	2,413.39	8.12	8.44	145.043	7,937.85	-1,278.21	8,123.43	8,107.42	16.02	507.201	
2,900.00	2,896.36	2,570.79	2,513.14	8.42	8.80	145.141	7,943.92	-1,269.70	8,134.38	8,117.75	16.63	489.205	
3,000.00	2,996.07	2,775.42	2,716.71	8.72	9.54	145.338	7,955.07	-1,252.09	8,144.79	8,127.16	17.64	461.840	
3,100.00	3,095.78	3,086.22	3,026.65	9.03	10.66	145.582	7,964.31	-1,232.02	8,152.77	8,133.74	19.03	428.508	
3,200.00	3,195.49	3,218.08	3,158.51	9.34	11.12	145.627	7,965.14	-1,231.36	8,159.57	8,139.82	19.76	413.022	
3,300.00	3,295.20	3,317.73	3,258.15	9.66	11.47	145.657	7,965.59	-1,231.44	8,166.31	8,145.94	20.37	400.847	
3,400.00	3,394.91	3,406.88	3,347.30	9.98	11.78	145.685	7,966.05	-1,231.36	8,173.10	8,152.15	20.96	389.995	
3,500.00	3,494.62	3,493.12	3,433.54	10.30	12.08	145.715	7,966.71	-1,230.84	8,180.06	8,158.52	21.53	379.858	
3,600.00	3,594.33	3,585.81	3,526.22	10.63	12.41	145.751	7,967.61	-1,229.83	8,187.16	8,165.02	22.14	369.811	
3,700.00	3,694.04	3,682.88	3,623.27	10.96	12.75	145.791	7,968.63	-1,228.49	8,194.30	8,171.54	22.76	360.000	
3,800.00	3,793.75	3,836.14	3,776.51	11.29	13.28	145.852	7,969.87	-1,226.43	8,201.25	8,177.67	23.58	347.736	
3,900.00	3,893.47	3,956.23	3,896.60	11.63	13.70	145.893	7,969.94	-1,225.63	8,207.50	8,183.21	24.29	337.882	
4,000.00	3,993.18	4,038.42	3,978.79	11.97	13.99	145.922	7,970.08	-1,225.05	8,213.87	8,189.01	24.87	330.330	
4,100.00	4,092.89	4,127.01	4,067.37	12.31	14.30	145.954	7,970.43	-1,224.29	8,220.45	8,194.99	25.47	322.802	
4,200.00	4,192.60	4,228.33	4,168.69	12.65	14.65	145.991	7,970.86	-1,223.44	8,227.06	8,200.95	26.12	315.030	
4,300.00	4,292.31	4,328.86	4,269.22	13.00	15.00	146.026	7,971.25	-1,222.67	8,233.66	8,206.90	26.76	307.642	
4,400.00	4,392.02	4,428.53	4,368.89	13.34	15.36	146.060	7,971.61	-1,222.11	8,240.26	8,212.84	27.41	300.616	
4,500.00	4,491.73	20,579.00	12,682.74	13.69	124.74	106.817	-162.43	-1,014.03	8,242.33	8,165.80	76.53	107.702	
4,600.00	4,591.44	20,579.00	12,682.74	14.04	124.74	106.817	-162.43	-1,014.03	8,142.91	8,066.21	76.70	106.167	
4,700.00	4,691.15	20,579.00	12,682.74	14.39	124.74	106.817	-162.43	-1,014.03	8,043.50	7,966.63	76.87	104.635	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 422H - OH / 68635 - Surveys (H&P 625)													Offset Site Error:	0.00 usft
Survey Program:		154-MWD+HDCM					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)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,800.00	4,790.86	20,618.99	12,682.08	14.74	125.27	104.753	-202.36	-1,016.20	7,943.52	7,866.15	77.37	102.670		
4,900.00	4,890.57	20,620.16	12,682.08	15.10	125.29	104.692	-203.52	-1,016.25	7,844.11	7,766.55	77.56	101.137		
5,000.00	4,990.28	20,621.36	12,682.08	15.45	125.30	104.629	-204.72	-1,016.30	7,744.71	7,666.95	77.75	99.609		
5,100.00	5,089.99	20,622.58	12,682.08	15.81	125.32	104.564	-205.94	-1,016.35	7,645.32	7,567.37	77.95	98.083		
5,200.00	5,189.70	20,623.82	12,682.08	16.16	125.34	104.498	-207.18	-1,016.41	7,545.95	7,467.80	78.15	96.562		
5,300.00	5,289.41	20,625.10	12,682.08	16.52	125.35	104.431	-208.46	-1,016.46	7,446.59	7,368.24	78.35	95.044		
5,400.00	5,389.12	20,626.41	12,682.08	16.88	125.37	104.361	-209.77	-1,016.52	7,347.25	7,268.70	78.56	93.530		
5,500.00	5,488.83	20,627.75	12,682.08	17.24	125.39	104.290	-211.11	-1,016.57	7,247.93	7,169.17	78.77	92.019		
5,600.00	5,588.54	20,629.13	12,682.09	17.59	125.41	104.217	-212.48	-1,016.63	7,148.63	7,069.65	78.98	90.513		
5,700.00	5,688.25	20,630.53	12,682.09	17.95	125.42	104.142	-213.89	-1,016.69	7,049.34	6,970.14	79.20	89.011		
5,800.00	5,787.96	20,631.98	12,682.10	18.32	125.44	104.065	-215.33	-1,016.74	6,950.07	6,870.65	79.42	87.514		
5,900.00	5,887.67	20,633.45	12,682.11	18.68	125.46	103.986	-216.80	-1,016.80	6,850.82	6,771.18	79.64	86.021		
6,000.00	5,987.38	20,634.97	12,682.12	19.04	125.48	103.905	-218.32	-1,016.86	6,751.59	6,671.72	79.87	84.532		
6,100.00	6,087.09	20,674.00	12,682.90	19.40	126.00	101.773	-257.32	-1,017.99	6,652.91	6,572.50	80.41	82.738		
6,200.00	6,186.80	20,674.00	12,682.90	19.76	126.00	101.773	-257.32	-1,017.99	6,553.68	6,473.05	80.63	81.278		
6,300.00	6,286.51	20,674.00	12,682.90	20.13	126.00	101.773	-257.32	-1,017.99	6,454.48	6,373.62	80.86	79.822		
6,400.00	6,386.22	20,674.00	12,682.90	20.49	126.00	101.773	-257.32	-1,017.99	6,355.30	6,274.21	81.09	78.371		
6,500.00	6,485.93	20,674.00	12,682.90	20.86	126.00	101.773	-257.32	-1,017.99	6,256.15	6,174.82	81.33	76.925		
6,600.00	6,585.64	20,674.00	12,682.90	21.22	126.00	101.773	-257.32	-1,017.99	6,157.03	6,075.46	81.57	75.484		
6,700.00	6,685.35	20,674.00	12,682.90	21.59	126.00	101.773	-257.32	-1,017.99	6,057.93	5,976.12	81.81	74.048		
6,800.00	6,785.06	20,674.00	12,682.90	21.95	126.00	101.773	-257.32	-1,017.99	5,958.87	5,876.81	82.06	72.618		
6,900.00	6,884.77	20,674.00	12,682.90	22.32	126.00	101.773	-257.32	-1,017.99	5,859.83	5,777.52	82.31	71.192		
7,000.00	6,984.48	20,674.00	12,682.90	22.68	126.00	101.773	-257.32	-1,017.99	5,760.83	5,678.27	82.57	69.773		
7,100.00	7,084.19	20,674.00	12,682.90	23.05	126.00	101.773	-257.32	-1,017.99	5,661.87	5,579.04	82.83	68.359		
7,200.00	7,183.90	20,674.00	12,682.90	23.42	126.00	101.773	-257.32	-1,017.99	5,562.94	5,479.85	83.09	66.951		
7,300.00	7,283.61	20,674.00	12,682.90	23.78	126.00	101.773	-257.32	-1,017.99	5,464.05	5,380.69	83.36	65.548		
7,400.00	7,383.32	20,674.00	12,682.90	24.15	126.00	101.773	-257.32	-1,017.99	5,365.20	5,281.57	83.63	64.152		
7,500.00	7,483.03	20,674.00	12,682.90	24.52	126.00	101.773	-257.32	-1,017.99	5,266.40	5,182.49	83.91	62.761		
7,600.00	7,582.74	20,674.00	12,682.90	24.89	126.00	101.773	-257.32	-1,017.99	5,167.64	5,083.45	84.20	61.377		
7,700.00	7,682.45	20,674.00	12,682.90	25.25	126.00	101.773	-257.32	-1,017.99	5,068.93	4,984.45	84.48	59.999		
7,800.00	7,782.16	20,674.00	12,682.90	25.62	126.00	101.773	-257.32	-1,017.99	4,970.28	4,885.50	84.78	58.627		
7,900.00	7,881.87	20,674.00	12,682.90	25.99	126.00	101.773	-257.32	-1,017.99	4,871.67	4,786.60	85.08	57.262		
8,000.00	7,981.58	20,709.37	12,683.97	26.36	126.47	99.749	-292.67	-1,018.70	4,773.10	4,687.40	85.69	55.699		
8,100.00	8,081.29	20,747.06	12,684.88	26.73	126.98	97.476	-330.34	-1,019.48	4,674.50	4,588.16	86.34	54.140		
8,200.00	8,181.00	20,780.24	12,685.49	27.10	127.42	95.374	-363.51	-1,020.17	4,575.89	4,488.93	86.96	52.622		
8,300.00	8,280.71	20,746.50	12,684.74	27.47	126.97	97.510	-329.79	-1,019.48	4,477.29	4,390.31	86.99	51.472		
8,400.00	8,380.42	20,803.76	12,685.85	27.84	127.74	93.827	-387.02	-1,020.65	4,378.77	4,290.93	87.84	49.850		
8,500.00	8,480.13	20,817.94	12,686.04	28.21	127.93	92.872	-401.20	-1,020.94	4,280.27	4,191.96	88.31	48.466		
8,600.00	8,579.84	20,831.67	12,686.21	28.58	128.11	91.930	-414.93	-1,021.21	4,181.81	4,093.01	88.80	47.095		
8,700.00	8,679.55	20,844.98	12,686.36	28.95	128.29	91.003	-428.22	-1,021.47	4,083.40	3,994.12	89.28	45.735		
8,800.00	8,779.26	20,857.87	12,686.48	29.32	128.46	90.090	-441.11	-1,021.72	3,985.04	3,895.26	89.78	44.387		
8,900.00	8,878.97	20,898.30	12,686.66	29.69	129.00	87.132	-481.53	-1,022.65	3,886.72	3,796.17	90.55	42.925		
9,000.00	8,978.68	20,896.16	12,686.58	30.06	128.97	87.290	-479.39	-1,022.65	3,788.39	3,697.46	90.93	41.663		
9,100.00	9,078.39	20,923.75	12,686.56	30.43	129.34	85.198	-506.97	-1,023.40	3,690.20	3,598.59	91.61	40.283		
9,200.00	9,178.10	20,930.18	12,686.53	30.80	129.43	84.702	-513.40	-1,023.60	3,592.06	3,499.96	92.10	39.002		
9,300.00	9,277.81	20,936.62	12,686.49	31.17	129.51	84.202	-519.83	-1,023.79	3,494.01	3,401.41	92.60	37.731		
9,400.00	9,377.52	20,943.05	12,686.46	31.54	129.60	83.699	-526.26	-1,023.99	3,396.07	3,302.94	93.13	36.467		
9,500.00	9,477.23	20,949.48	12,686.43	31.91	129.68	83.194	-532.69	-1,024.19	3,298.24	3,204.57	93.67	35.212		
9,600.00	9,576.94	20,955.92	12,686.40	32.29	129.77	82.686	-539.12	-1,024.38	3,200.53	3,106.30	94.23	33.966		
9,700.00	9,676.65	20,962.35	12,686.36	32.66	129.86	82.175	-545.55	-1,024.58	3,102.95	3,008.14	94.81	32.728		
9,800.00	9,776.36	20,968.78	12,686.33	33.03	129.94	81.661	-551.98	-1,024.77	3,005.52	2,910.10	95.41	31.500		
9,900.00	9,876.07	20,972.00	12,686.32	33.40	129.98	81.403	-555.20	-1,024.87	2,908.25	2,812.24	96.01	30.291		

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 422H - OH / 68635 - Surveys (H&P 625)													Offset Site Error:	0.00 usft
Survey Program:		154-MWD+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)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,000.00	9,975.78	20,972.00	12,686.32	33.77	129.98	81.403	-555.20	-1,024.87	2,811.17	2,714.57	96.60	29.101		
10,100.00	10,075.49	20,972.00	12,686.32	34.14	129.98	81.403	-555.20	-1,024.87	2,714.30	2,617.08	97.22	27.920		
10,200.00	10,175.20	20,972.00	12,686.32	34.52	129.98	81.403	-555.20	-1,024.87	2,617.66	2,519.80	97.87	26.747		
10,300.00	10,274.91	20,972.00	12,686.32	34.89	129.98	81.403	-555.20	-1,024.87	2,521.29	2,422.74	98.55	25.583		
10,400.00	10,374.62	20,972.00	12,686.32	35.26	129.98	81.403	-555.20	-1,024.87	2,425.22	2,325.94	99.28	24.428		
10,500.00	10,474.33	20,972.00	12,686.32	35.63	129.98	81.403	-555.20	-1,024.87	2,329.47	2,229.41	100.05	23.282		
10,600.00	10,574.04	20,972.00	12,686.32	36.01	129.98	81.403	-555.20	-1,024.87	2,234.09	2,133.21	100.88	22.146		
10,700.00	10,673.75	20,972.00	12,686.32	36.38	129.98	81.403	-555.20	-1,024.87	2,139.14	2,037.38	101.76	21.020		
10,800.00	10,773.46	20,972.00	12,686.32	36.75	129.98	81.403	-555.20	-1,024.87	2,044.67	1,941.95	102.72	19.906		
10,900.00	10,873.18	20,972.00	12,686.32	37.12	129.98	81.403	-555.20	-1,024.87	1,950.75	1,847.00	103.75	18.802		
11,000.00	10,972.89	20,972.00	12,686.32	37.50	129.98	81.403	-555.20	-1,024.87	1,857.47	1,752.60	104.87	17.712		
11,100.00	11,072.60	20,972.00	12,686.32	37.87	129.98	81.403	-555.20	-1,024.87	1,764.92	1,658.82	106.10	16.635		
11,200.00	11,172.31	20,972.00	12,686.32	38.24	129.98	81.403	-555.20	-1,024.87	1,673.23	1,565.78	107.44	15.573		
11,300.00	11,272.02	20,972.00	12,686.32	38.62	129.98	81.403	-555.20	-1,024.87	1,582.54	1,473.62	108.93	14.528		
11,381.30	11,353.08	20,972.00	12,686.32	38.92	129.98	81.403	-555.20	-1,024.87	1,509.69	1,399.43	110.25	13.693		
11,400.00	11,371.73	20,972.00	12,686.32	38.98	129.98	80.684	-555.20	-1,024.87	1,493.06	1,382.48	110.57	13.503		
11,500.00	11,471.59	20,972.00	12,686.32	39.34	129.98	77.070	-555.20	-1,024.87	1,405.19	1,292.72	112.47	12.494		
11,599.47	11,571.04	20,972.00	12,686.32	39.49	129.98	-80.160	-555.20	-1,024.87	1,319.90	1,205.25	114.65	11.513		
11,600.00	11,571.57	20,972.00	12,686.32	39.49	129.98	-80.160	-555.20	-1,024.87	1,319.46	1,204.80	114.66	11.507		
11,700.00	11,671.57	20,972.00	12,686.32	39.52	129.98	-80.160	-555.20	-1,024.87	1,236.13	1,118.96	117.17	10.550		
11,800.00	11,771.57	20,972.00	12,686.32	39.52	129.98	-80.160	-555.20	-1,024.87	1,155.45	1,035.48	119.97	9.631		
11,900.00	11,871.57	20,972.00	12,686.32	39.53	129.98	-80.160	-555.20	-1,024.87	1,078.02	954.91	123.11	8.757		
12,000.00	11,971.57	20,972.00	12,686.32	39.54	129.98	-80.160	-555.20	-1,024.87	1,004.57	878.00	126.57	7.937		
12,099.47	12,071.04	20,972.00	12,686.32	39.54	129.98	-80.160	-555.20	-1,024.87	936.41	806.10	130.32	7.186		
12,100.00	12,071.57	20,972.00	12,686.32	39.55	129.98	100.439	-555.20	-1,024.87	936.07	805.73	130.34	7.182		
12,150.00	12,121.50	20,972.00	12,686.32	39.65	129.98	104.442	-555.20	-1,024.87	904.37	772.13	132.24	6.839		
12,200.00	12,171.05	20,972.00	12,686.32	39.91	129.98	107.880	-555.20	-1,024.87	875.28	741.24	134.04	6.530		
12,250.00	12,219.84	20,972.00	12,686.32	40.20	129.98	110.754	-555.20	-1,024.87	849.29	713.63	135.66	6.260		
12,300.00	12,267.50	20,972.00	12,686.32	40.50	129.98	113.080	-555.20	-1,024.87	826.90	689.88	137.02	6.035		
12,350.00	12,313.66	20,972.00	12,686.32	40.80	129.98	114.880	-555.20	-1,024.87	808.59	670.53	138.05	5.857		
12,400.00	12,357.98	20,972.00	12,686.32	41.09	129.98	116.179	-555.20	-1,024.87	794.77	656.08	138.70	5.730		
12,450.00	12,400.11	20,972.00	12,686.32	41.38	129.98	116.995	-555.20	-1,024.87	785.81	646.89	138.91	5.657		
12,500.00	12,439.74	20,972.00	12,686.32	41.66	129.98	117.342	-555.20	-1,024.87	781.92	643.22	138.70	5.638 SF		
12,512.49	12,449.21	20,972.00	12,686.32	41.72	129.98	117.357	-555.20	-1,024.87	781.76	643.18	138.58	5.641 CC, ES		
12,550.00	12,476.56	20,972.00	12,686.32	41.92	129.98	117.227	-555.20	-1,024.87	783.22	645.16	138.06	5.673		
12,600.00	12,510.29	20,972.00	12,686.32	42.16	129.98	116.646	-555.20	-1,024.87	789.67	652.62	137.05	5.762		
12,650.00	12,540.68	20,972.00	12,686.32	42.39	129.98	115.590	-555.20	-1,024.87	801.10	665.37	135.73	5.902		
12,700.00	12,567.50	20,972.00	12,686.32	42.58	129.98	114.043	-555.20	-1,024.87	817.21	683.05	134.16	6.091		
12,750.00	12,590.54	20,972.00	12,686.32	42.76	129.98	111.983	-555.20	-1,024.87	837.63	705.21	132.41	6.326		
12,800.00	12,609.63	20,972.00	12,686.32	42.91	129.98	109.386	-555.20	-1,024.87	861.88	731.34	130.54	6.602		
12,850.00	12,624.61	20,972.00	12,686.32	43.03	129.98	106.231	-555.20	-1,024.87	889.48	760.88	128.60	6.917		
12,900.00	12,635.39	20,972.00	12,686.32	43.12	129.98	102.509	-555.20	-1,024.87	919.94	793.29	126.64	7.264		
12,950.00	12,641.87	20,972.00	12,686.32	43.19	129.98	98.229	-555.20	-1,024.87	952.75	828.05	124.70	7.640		
12,999.47	12,644.00	20,972.00	12,686.32	43.23	129.98	93.488	-555.20	-1,024.87	987.07	864.24	122.83	8.036		
13,000.00	12,644.00	20,972.00	12,686.32	43.24	129.98	93.488	-555.20	-1,024.87	987.45	864.64	122.81	8.040		
13,100.00	12,644.00	20,972.00	12,686.32	43.31	129.98	93.488	-555.20	-1,024.87	1,060.76	941.50	119.26	8.894		
13,200.00	12,644.00	20,972.00	12,686.32	43.39	129.98	93.488	-555.20	-1,024.87	1,138.15	1,022.07	116.08	9.805		
13,300.00	12,644.00	20,972.00	12,686.32	43.50	129.98	93.488	-555.20	-1,024.87	1,218.83	1,105.59	113.24	10.763		
13,400.00	12,644.00	20,972.00	12,686.32	43.63	129.98	93.488	-555.20	-1,024.87	1,302.20	1,191.47	110.73	11.760		
13,500.00	12,644.00	20,972.00	12,686.32	43.78	129.98	93.488	-555.20	-1,024.87	1,387.76	1,279.25	108.52	12.789		
13,600.00	12,644.00	20,972.00	12,686.32	43.96	129.98	93.488	-555.20	-1,024.87	1,475.15	1,368.57	106.57	13.842		
13,700.00	12,644.00	20,972.00	12,686.32	44.18	129.98	93.488	-555.20	-1,024.87	1,564.04	1,459.17	104.87	14.914		

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 422H - OH / 68635 - Surveys (H&P 625)													Offset Site Error:	0.00 usft	
Survey Program:		154-MWD+HDGM								Rule Assigned:				Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
13,800.00	12,644.00	20,972.00	12,686.32	44.44	129.98	93.488	-555.20	-1,024.87	1,654.20	1,550.83	103.37	16.002			
13,900.00	12,644.00	20,972.00	12,686.32	44.74	129.98	93.488	-555.20	-1,024.87	1,745.44	1,643.38	102.06	17.102			
14,000.00	12,644.00	20,972.00	12,686.32	45.11	129.98	93.488	-555.20	-1,024.87	1,837.59	1,736.67	100.91	18.210			
14,100.00	12,644.00	20,972.00	12,686.32	45.54	129.98	93.488	-555.20	-1,024.87	1,930.52	1,830.62	99.90	19.325			
14,200.00	12,644.00	20,972.00	12,686.32	46.05	129.98	93.488	-555.20	-1,024.87	2,024.12	1,925.11	99.01	20.444			
14,300.00	12,644.00	20,972.00	12,686.32	46.65	129.98	93.488	-555.20	-1,024.87	2,118.31	2,020.08	98.22	21.566			
14,400.00	12,644.00	20,972.00	12,686.32	47.33	129.98	93.488	-555.20	-1,024.87	2,213.01	2,115.47	97.53	22.690			
14,500.00	12,644.00	20,972.00	12,686.32	48.09	129.98	93.488	-555.20	-1,024.87	2,308.15	2,211.23	96.92	23.815			
14,600.00	12,644.00	20,972.00	12,686.32	48.94	129.98	93.488	-555.20	-1,024.87	2,403.69	2,307.31	96.38	24.940			
14,700.00	12,644.00	20,972.00	12,686.32	49.86	129.98	93.488	-555.20	-1,024.87	2,499.58	2,403.68	95.90	26.064			
14,800.00	12,644.00	20,972.00	12,686.32	50.85	129.98	93.488	-555.20	-1,024.87	2,595.78	2,500.30	95.48	27.188			
14,900.00	12,644.00	20,972.00	12,686.32	51.89	129.98	93.488	-555.20	-1,024.87	2,692.25	2,597.15	95.10	28.310			
15,000.00	12,644.00	20,972.00	12,686.32	52.99	129.98	93.488	-555.20	-1,024.87	2,788.98	2,694.21	94.77	29.430			
15,100.00	12,644.00	20,972.00	12,686.32	54.12	129.98	93.488	-555.20	-1,024.87	2,885.93	2,791.45	94.47	30.548			
15,200.00	12,644.00	20,972.00	12,686.32	55.29	129.98	93.488	-555.20	-1,024.87	2,983.07	2,888.86	94.21	31.664			
15,300.00	12,644.00	20,972.00	12,686.32	56.49	129.98	93.488	-555.20	-1,024.87	3,080.41	2,986.43	93.98	32.778			
15,400.00	12,644.00	20,972.00	12,686.32	57.72	129.98	93.488	-555.20	-1,024.87	3,177.90	3,084.13	93.77	33.889			
15,500.00	12,644.00	20,972.00	12,686.32	58.96	129.98	93.488	-555.20	-1,024.87	3,275.55	3,181.96	93.59	34.998			
15,600.00	12,644.00	20,972.00	12,686.32	60.22	129.98	93.488	-555.20	-1,024.87	3,373.34	3,279.90	93.43	36.104			
15,700.00	12,644.00	20,972.00	12,686.32	61.50	129.98	93.488	-555.20	-1,024.87	3,471.25	3,377.96	93.29	37.208			
15,800.00	12,644.00	20,972.00	12,686.32	62.79	129.98	93.488	-555.20	-1,024.87	3,569.28	3,476.11	93.17	38.309			
15,900.00	12,644.00	20,972.00	12,686.32	64.09	129.98	93.488	-555.20	-1,024.87	3,667.41	3,574.35	93.06	39.407			
16,000.00	12,644.00	20,972.00	12,686.32	65.40	129.98	93.488	-555.20	-1,024.87	3,765.64	3,672.67	92.97	40.503			
16,100.00	12,644.00	20,972.00	12,686.32	66.72	129.98	93.488	-555.20	-1,024.87	3,863.97	3,771.07	92.89	41.595			
16,200.00	12,644.00	20,972.00	12,686.32	68.04	129.98	93.488	-555.20	-1,024.87	3,962.37	3,869.55	92.83	42.686			
16,300.00	12,644.00	20,972.00	12,686.32	69.38	129.98	93.488	-555.20	-1,024.87	4,060.86	3,968.09	92.77	43.773			
16,400.00	12,644.00	20,972.00	12,686.32	70.72	129.98	93.488	-555.20	-1,024.87	4,159.42	4,066.69	92.72	44.858			
16,500.00	12,644.00	20,972.00	12,686.32	72.07	129.98	93.488	-555.20	-1,024.87	4,258.04	4,165.35	92.69	45.940			
16,600.00	12,644.00	20,972.00	12,686.32	73.42	129.98	93.488	-555.20	-1,024.87	4,356.73	4,264.07	92.66	47.019			
16,700.00	12,644.00	20,972.00	12,686.32	74.77	129.98	93.488	-555.20	-1,024.87	4,455.47	4,362.83	92.64	48.095			
16,800.00	12,644.00	20,972.00	12,686.32	76.13	129.98	93.488	-555.20	-1,024.87	4,554.27	4,461.65	92.62	49.169			
16,900.00	12,644.00	20,972.00	12,686.32	77.49	129.98	93.488	-555.20	-1,024.87	4,653.13	4,560.51	92.62	50.240			
17,000.00	12,644.00	20,972.00	12,686.32	78.86	129.98	93.488	-555.20	-1,024.87	4,752.03	4,659.41	92.62	51.309			
17,100.00	12,644.00	20,972.00	12,686.32	80.23	129.98	93.488	-555.20	-1,024.87	4,850.97	4,758.35	92.62	52.374			
17,200.00	12,644.00	20,972.00	12,686.32	81.60	129.98	93.488	-555.20	-1,024.87	4,949.96	4,857.33	92.63	53.437			
17,300.00	12,644.00	20,972.00	12,686.32	82.98	129.98	93.488	-555.20	-1,024.87	5,048.98	4,956.34	92.65	54.498			
17,400.00	12,644.00	20,972.00	12,686.32	84.36	129.98	93.488	-555.20	-1,024.87	5,148.05	5,055.38	92.67	55.555			
17,500.00	12,644.00	20,972.00	12,686.32	85.74	129.98	93.488	-555.20	-1,024.87	5,247.15	5,154.46	92.69	56.610			
17,600.00	12,644.00	20,972.00	12,686.32	87.12	129.98	93.488	-555.20	-1,024.87	5,346.28	5,253.57	92.72	57.662			
17,700.00	12,644.00	20,972.00	12,686.32	88.51	129.98	93.488	-555.20	-1,024.87	5,445.45	5,352.70	92.75	58.711			
17,800.00	12,644.00	20,972.00	12,686.32	89.89	129.98	93.488	-555.20	-1,024.87	5,544.64	5,451.86	92.79	59.758			
17,900.00	12,644.00	20,972.00	12,686.32	91.28	129.98	93.488	-555.20	-1,024.87	5,643.87	5,551.04	92.82	60.802			
18,000.00	12,644.00	20,972.00	12,686.32	92.67	129.98	93.488	-555.20	-1,024.87	5,743.12	5,650.25	92.87	61.843			
18,100.00	12,644.00	20,972.00	12,686.32	94.07	129.98	93.488	-555.20	-1,024.87	5,842.40	5,749.48	92.91	62.881			
18,200.00	12,644.00	20,972.00	12,686.32	95.46	129.98	93.488	-555.20	-1,024.87	5,941.70	5,848.74	92.96	63.917			
18,300.00	12,644.00	20,972.00	12,686.32	96.85	129.98	93.488	-555.20	-1,024.87	6,041.02	5,948.01	93.01	64.950			
18,400.00	12,644.00	20,972.00	12,686.32	98.25	129.98	93.488	-555.20	-1,024.87	6,140.37	6,047.30	93.06	65.980			
18,500.00	12,644.00	20,972.00	12,686.32	99.65	129.98	93.488	-555.20	-1,024.87	6,239.73	6,146.61	93.12	67.008			
18,600.00	12,644.00	20,972.00	12,686.32	101.05	129.98	93.488	-555.20	-1,024.87	6,339.12	6,245.94	93.18	68.032			
18,700.00	12,644.00	20,972.00	12,686.32	102.45	129.98	93.488	-555.20	-1,024.87	6,438.52	6,345.29	93.24	69.054			
18,800.00	12,644.00	20,972.00	12,686.32	103.85	129.98	93.488	-555.20	-1,024.87	6,537.95	6,444.65	93.30	70.074			
18,900.00	12,644.00	20,972.00	12,686.32	105.25	129.98	93.488	-555.20	-1,024.87	6,637.39	6,544.02	93.37	71.090			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 422H - OH / 68635 - Surveys (H&P 625)												Offset Site Error:	0.00 usft
Survey Program:		154-MWD+HDGM <th colspan="2">Rule Assigned:</th> <th colspan="3"></th> <th>Offset Well Error:</th> <td>1.00 usft</td>					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)
19,000.00	12,644.00	20,972.00	12,686.32	106.65	129.98	93.488	-555.20	-1,024.87	6,736.85	6,643.41	93.43	72.104	
19,100.00	12,644.00	20,972.00	12,686.32	108.06	129.98	93.488	-555.20	-1,024.87	6,836.32	6,742.82	93.50	73.114	
19,200.00	12,644.00	20,972.00	12,686.32	109.46	129.98	93.488	-555.20	-1,024.87	6,935.81	6,842.23	93.57	74.122	
19,300.00	12,644.00	20,972.00	12,686.32	110.87	129.98	93.488	-555.20	-1,024.87	7,035.31	6,941.67	93.64	75.128	
19,400.00	12,644.00	20,972.00	12,686.32	112.28	129.98	93.488	-555.20	-1,024.87	7,134.83	7,041.11	93.72	76.130	
19,500.00	12,644.00	20,972.00	12,686.32	113.68	129.98	93.488	-555.20	-1,024.87	7,234.36	7,140.56	93.80	77.129	
19,600.00	12,644.00	20,972.00	12,686.32	115.09	129.98	93.488	-555.20	-1,024.87	7,333.90	7,240.03	93.87	78.126	
19,700.00	12,644.00	20,972.00	12,686.32	116.50	129.98	93.488	-555.20	-1,024.87	7,433.46	7,339.50	93.95	79.120	
19,800.00	12,644.00	20,972.00	12,686.32	117.91	129.98	93.488	-555.20	-1,024.87	7,533.02	7,438.99	94.03	80.111	
19,900.00	12,644.00	20,972.00	12,686.32	119.32	129.98	93.488	-555.20	-1,024.87	7,632.60	7,538.49	94.11	81.099	
20,000.00	12,644.00	20,972.00	12,686.32	120.73	129.98	93.488	-555.20	-1,024.87	7,732.19	7,637.99	94.20	82.085	
20,100.00	12,644.00	20,972.00	12,686.32	122.15	129.98	93.488	-555.20	-1,024.87	7,831.79	7,737.51	94.28	83.067	
20,200.00	12,644.00	20,972.00	12,686.32	123.56	129.98	93.488	-555.20	-1,024.87	7,931.40	7,837.03	94.37	84.047	
20,300.00	12,644.00	20,972.00	12,686.32	124.97	129.98	93.488	-555.20	-1,024.87	8,031.02	7,936.56	94.46	85.023	
20,400.00	12,644.00	20,972.00	12,686.32	126.38	129.98	93.488	-555.20	-1,024.87	8,130.65	8,036.10	94.55	85.997	
20,500.00	12,644.00	20,972.00	12,686.32	127.80	129.98	93.488	-555.20	-1,024.87	8,230.29	8,135.65	94.64	86.968	
20,600.00	12,644.00	20,972.00	12,686.32	129.21	129.98	93.488	-555.20	-1,024.87	8,329.93	8,235.20	94.73	87.936	
20,700.00	12,644.00	20,972.00	12,686.32	130.63	129.98	93.488	-555.20	-1,024.87	8,429.59	8,334.77	94.82	88.901	
20,800.00	12,644.00	20,972.00	12,686.32	132.04	129.98	93.488	-555.20	-1,024.87	8,529.25	8,434.34	94.91	89.863	
20,900.00	12,644.00	20,972.00	12,686.32	133.46	129.98	93.488	-555.20	-1,024.87	8,628.92	8,533.91	95.01	90.822	
21,000.00	12,644.00	20,972.00	12,686.32	134.88	129.98	93.488	-555.20	-1,024.87	8,728.60	8,633.49	95.10	91.779	
21,100.00	12,644.00	20,972.00	12,686.32	136.29	129.98	93.488	-555.20	-1,024.87	8,828.28	8,733.08	95.20	92.732	
21,200.00	12,644.00	20,972.00	12,686.32	137.71	129.98	93.488	-555.20	-1,024.87	8,927.98	8,832.68	95.30	93.683	
21,300.00	12,644.00	20,972.00	12,686.32	139.13	129.98	93.488	-555.20	-1,024.87	9,027.68	8,932.28	95.40	94.630	
21,400.00	12,644.00	20,972.00	12,686.32	140.54	129.98	93.488	-555.20	-1,024.87	9,127.38	9,031.88	95.50	95.575	
21,500.00	12,644.00	20,972.00	12,686.32	141.96	129.98	93.488	-555.20	-1,024.87	9,227.09	9,131.49	95.60	96.516	
21,600.00	12,644.00	20,972.00	12,686.32	143.38	129.98	93.488	-555.20	-1,024.87	9,326.81	9,231.11	95.70	97.455	
21,700.00	12,644.00	20,972.00	12,686.32	144.80	129.98	93.488	-555.20	-1,024.87	9,426.54	9,330.73	95.81	98.391	
21,800.00	12,644.00	20,972.00	12,686.32	146.22	129.98	93.488	-555.20	-1,024.87	9,526.27	9,430.36	95.91	99.323	
21,900.00	12,644.00	20,972.00	12,686.32	147.64	129.98	93.488	-555.20	-1,024.87	9,626.00	9,529.99	96.02	100.253	
22,000.00	12,644.00	20,972.00	12,686.32	149.06	129.98	93.488	-555.20	-1,024.87	9,725.74	9,629.62	96.12	101.180	
22,100.00	12,644.00	20,972.00	12,686.32	150.48	129.98	93.488	-555.20	-1,024.87	9,825.49	9,729.26	96.23	102.103	
22,199.47	12,644.00	20,972.00	12,686.32	151.89	129.98	93.488	-555.20	-1,024.87	9,924.72	9,828.38	96.34	103.019	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 432H - OH / 68636 - Surveys (H&P 625)													Offset Site Error: 0.00 usft
Survey Program: 154-MWD+HDGM													Offset Well Error: 1.00 usft
Rule Assigned:													Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	61.80	7.80	1.00	1.00	-10.006	7,889.84	-1,392.03	8,011.70				
100.00	100.00	173.36	119.36	1.08	1.04	-10.006	7,889.63	-1,392.02	8,011.51	8,009.39	2.13	3,765.525	
200.00	200.00	273.02	219.02	1.60	1.20	-10.006	7,889.39	-1,392.02	8,011.27	8,008.48	2.79	2,867.206	
300.00	300.00	379.11	325.11	2.01	1.44	-10.007	7,889.09	-1,392.10	8,011.01	8,007.56	3.45	2,323.187	
400.00	400.00	487.96	433.96	2.35	1.74	-10.010	7,888.63	-1,392.41	8,010.64	8,006.55	4.09	1,957.730	
500.00	500.00	574.43	520.43	2.65	2.00	-10.012	7,888.30	-1,392.62	8,010.31	8,005.66	4.65	1,722.983	
600.00	600.00	663.00	609.00	2.93	2.27	-10.012	7,888.14	-1,392.59	8,010.13	8,004.94	5.20	1,541.497	
680.65	680.65	734.65	680.65	3.13	2.49	-10.011	7,888.13	-1,392.47	8,010.09	8,004.47	5.62	1,424.752	
700.00	700.00	752.17	698.17	3.18	2.55	-10.011	7,888.14	-1,392.44	8,010.10	8,004.37	5.73	1,398.867	
800.00	800.00	845.00	791.00	3.41	2.84	-10.010	7,888.25	-1,392.27	8,010.18	8,003.92	6.26	1,280.225	
900.00	900.00	958.66	904.66	3.64	3.22	-10.008	7,888.33	-1,392.06	8,010.22	8,003.37	6.85	1,168.934	
1,000.00	1,000.00	1,057.46	1,003.46	3.85	3.55	-10.007	7,888.25	-1,391.88	8,010.11	8,002.72	7.39	1,083.527	
1,014.46	1,014.46	1,068.47	1,014.46	3.88	3.58	-10.007	7,888.25	-1,391.86	8,010.11	8,002.65	7.46	1,073.937	
1,100.00	1,100.00	1,133.56	1,079.56	4.05	3.80	-10.005	7,888.37	-1,391.69	8,010.22	8,002.37	7.85	1,020.413	
1,200.00	1,200.00	1,313.52	1,259.51	4.24	4.41	-10.003	7,887.68	-1,391.18	8,009.64	8,000.99	8.65	925.681	
1,300.00	1,300.00	1,370.83	1,316.82	4.43	4.61	-10.003	7,887.39	-1,391.24	8,009.17	8,000.13	9.03	886.647	
1,339.39	1,339.39	1,393.40	1,339.39	4.50	4.68	-10.004	7,887.35	-1,391.31	8,009.13	7,999.95	9.18	872.400	
1,400.00	1,400.00	1,461.00	1,406.99	4.61	4.91	-10.007	7,887.50	-1,391.70	8,009.34	7,999.82	9.52	841.383	
1,406.99	1,406.99	1,461.00	1,406.99	4.62	4.91	-10.007	7,887.50	-1,391.70	8,009.34	7,999.81	9.53	840.305	
1,500.00	1,500.00	1,461.00	1,406.99	4.78	4.91	-10.007	7,887.50	-1,391.70	8,009.88	8,000.18	9.69	826.297	
1,600.00	1,599.98	1,529.60	1,475.58	4.98	5.14	143.980	7,888.12	-1,392.52	8,012.46	8,002.38	10.08	794.627	
1,700.00	1,699.84	1,577.59	1,523.55	5.60	5.30	143.913	7,888.87	-1,393.42	8,018.57	8,007.87	10.70	749.214	
1,718.18	1,717.96	1,586.29	1,532.26	5.62	5.33	143.897	7,889.04	-1,393.61	8,020.05	8,009.31	10.74	746.614	
1,800.00	1,799.55	1,649.00	1,594.92	5.72	5.54	143.908	7,890.49	-1,395.27	8,027.27	8,016.22	11.04	726.838	
1,900.00	1,899.26	1,695.75	1,641.63	5.89	5.70	143.914	7,891.74	-1,396.75	8,036.44	8,025.08	11.36	707.476	
2,000.00	1,998.97	1,787.77	1,733.56	6.09	6.02	143.923	7,894.19	-1,400.09	8,045.84	8,033.99	11.85	679.083	
2,100.00	2,098.68	1,879.74	1,825.42	6.30	6.33	143.928	7,896.64	-1,403.93	8,055.33	8,042.98	12.35	652.262	
2,200.00	2,198.39	1,971.66	1,917.22	6.53	6.65	143.933	7,899.16	-1,407.84	8,064.92	8,052.06	12.86	626.958	
2,300.00	2,298.10	2,067.73	2,013.17	6.77	6.98	143.939	7,901.89	-1,411.88	8,074.59	8,061.19	13.40	602.461	
2,400.00	2,397.81	2,169.82	2,115.13	7.02	7.34	143.946	7,904.80	-1,416.03	8,084.26	8,070.28	13.97	578.560	
2,500.00	2,497.52	2,256.99	2,202.20	7.28	7.64	143.953	7,907.32	-1,419.45	8,093.94	8,079.44	14.50	558.229	
2,600.00	2,597.23	2,332.28	2,277.38	7.55	7.91	143.959	7,909.71	-1,422.44	8,103.89	8,088.90	14.99	540.586	
2,700.00	2,696.94	2,403.00	2,348.01	7.83	8.16	143.964	7,912.14	-1,425.28	8,114.13	8,098.66	15.47	524.425	
2,800.00	2,796.65	2,488.48	2,433.37	8.12	8.46	143.972	7,915.33	-1,428.64	8,124.64	8,108.62	16.01	507.366	
2,900.00	2,896.36	2,569.08	2,513.84	8.42	8.74	143.981	7,918.56	-1,431.61	8,135.37	8,118.83	16.54	491.804	
3,000.00	2,996.07	2,654.77	2,599.40	8.72	9.05	143.990	7,922.18	-1,434.80	8,146.32	8,129.22	17.09	476.544	
3,100.00	3,095.78	2,742.38	2,686.84	9.03	9.36	143.995	7,925.90	-1,438.67	8,157.41	8,139.75	17.66	461.948	
3,200.00	3,195.49	2,840.01	2,784.26	9.34	9.71	143.998	7,930.07	-1,443.48	8,168.61	8,150.34	18.26	447.252	
3,300.00	3,295.20	2,945.22	2,889.27	9.66	10.08	144.004	7,934.59	-1,448.18	8,179.75	8,160.85	18.90	432.761	
3,400.00	3,394.91	3,141.07	3,084.84	9.98	10.78	144.023	7,942.12	-1,455.64	8,190.40	8,170.53	19.87	412.120	
3,500.00	3,494.62	3,312.28	3,255.87	10.30	11.40	144.041	7,946.87	-1,461.63	8,199.89	8,179.13	20.76	394.998	
3,600.00	3,594.33	3,428.39	3,371.88	10.63	11.81	144.050	7,949.37	-1,465.96	8,208.80	8,187.35	21.45	382.737	
3,700.00	3,694.04	3,531.58	3,474.96	10.96	12.18	144.055	7,951.42	-1,470.36	8,217.65	8,195.55	22.09	371.981	
3,800.00	3,793.75	3,643.63	3,586.86	11.29	12.58	144.056	7,953.46	-1,475.58	8,226.40	8,203.63	22.77	361.263	
3,900.00	3,893.47	3,762.58	3,705.66	11.63	13.01	144.056	7,955.39	-1,481.31	8,234.99	8,211.51	23.48	350.757	
4,000.00	3,993.18	3,897.64	3,840.63	11.97	13.49	144.071	7,957.48	-1,485.57	8,243.22	8,218.97	24.24	339.998	
4,100.00	4,092.89	4,015.31	3,958.27	12.31	13.91	144.097	7,959.22	-1,487.49	8,251.11	8,226.16	24.95	330.716	
4,200.00	4,192.60	4,126.69	4,069.63	12.65	14.31	144.123	7,960.72	-1,488.89	8,258.82	8,233.19	25.63	322.200	
4,300.00	4,292.31	4,226.10	4,169.03	13.00	14.66	144.147	7,962.01	-1,490.14	8,266.48	8,240.21	26.27	314.622	
4,400.00	4,392.02	4,317.23	4,260.14	13.34	14.98	144.169	7,963.19	-1,491.35	8,274.16	8,247.28	26.89	307.747	
4,500.00	4,491.73	4,394.62	4,337.52	13.69	15.25	144.191	7,964.48	-1,491.78	8,282.06	8,254.62	27.45	301.740	
4,600.00	4,591.44	20,305.00	12,714.60	14.04	119.18	101.065	207.07	-1,653.33	8,280.64	8,205.27	75.37	109.870	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 432H - OH / 68636 - Surveys (H&P 625)													Offset Site Error:	0.00 usft
Survey Program:		154-MWD+HDCM					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	
4,700.00	4,691.15	20,305.00	12,714.60	14.39	119.18	101.065	207.07	-1,653.33	8,182.56	8,106.99	75.57	108.280		
4,800.00	4,790.86	20,305.00	12,714.60	14.74	119.18	101.065	207.07	-1,653.33	8,084.53	8,008.76	75.77	106.694		
4,900.00	4,890.57	20,305.00	12,714.60	15.10	119.18	101.065	207.07	-1,653.33	7,986.55	7,910.57	75.98	105.112		
5,000.00	4,990.28	20,305.00	12,714.60	15.45	119.18	101.065	207.07	-1,653.33	7,888.62	7,812.43	76.19	103.534		
5,100.00	5,089.99	20,305.00	12,714.60	15.81	119.18	101.065	207.07	-1,653.33	7,790.75	7,714.34	76.41	101.959		
5,200.00	5,189.70	20,305.00	12,714.60	16.16	119.18	101.065	207.07	-1,653.33	7,692.92	7,616.29	76.63	100.389		
5,300.00	5,289.41	20,305.00	12,714.60	16.52	119.18	101.065	207.07	-1,653.33	7,595.16	7,518.30	76.86	98.822		
5,400.00	5,389.12	21,094.00	12,727.58	16.88	129.79	72.333	-580.60	-1,624.79	7,496.77	7,413.43	83.34	89.949		
5,500.00	5,488.83	21,094.00	12,727.58	17.24	129.79	72.333	-580.60	-1,624.79	7,398.23	7,314.64	83.59	88.505		
5,600.00	5,588.54	21,094.00	12,727.58	17.59	129.79	72.333	-580.60	-1,624.79	7,299.72	7,215.88	83.84	87.065		
5,700.00	5,688.25	21,094.00	12,727.58	17.95	129.79	72.333	-580.60	-1,624.79	7,201.26	7,117.16	84.10	85.629		
5,800.00	5,787.96	21,094.00	12,727.58	18.32	129.79	72.333	-580.60	-1,624.79	7,102.84	7,018.48	84.36	84.196		
5,900.00	5,887.67	21,094.00	12,727.58	18.68	129.79	72.333	-580.60	-1,624.79	7,004.46	6,919.84	84.63	82.767		
6,000.00	5,987.38	21,094.00	12,727.58	19.04	129.79	72.333	-580.60	-1,624.79	6,906.13	6,821.23	84.90	81.343		
6,100.00	6,087.09	21,094.00	12,727.58	19.40	129.79	72.333	-580.60	-1,624.79	6,807.85	6,722.67	85.18	79.923		
6,200.00	6,186.80	21,094.00	12,727.58	19.76	129.79	72.333	-580.60	-1,624.79	6,709.62	6,624.16	85.47	78.507		
6,300.00	6,286.51	21,094.00	12,727.58	20.13	129.79	72.333	-580.60	-1,624.79	6,611.45	6,525.69	85.76	77.095		
6,400.00	6,386.22	21,094.00	12,727.58	20.49	129.79	72.333	-580.60	-1,624.79	6,513.32	6,427.27	86.05	75.688		
6,500.00	6,485.93	21,094.00	12,727.58	20.86	129.79	72.333	-580.60	-1,624.79	6,415.26	6,328.90	86.36	74.286		
6,600.00	6,585.64	21,094.00	12,727.58	21.22	129.79	72.333	-580.60	-1,624.79	6,317.26	6,230.59	86.67	72.889		
6,700.00	6,685.35	21,094.00	12,727.58	21.59	129.79	72.333	-580.60	-1,624.79	6,219.32	6,132.33	86.99	71.496		
6,800.00	6,785.06	21,094.00	12,727.58	21.95	129.79	72.333	-580.60	-1,624.79	6,121.45	6,034.13	87.31	70.109		
6,900.00	6,884.77	21,094.00	12,727.58	22.32	129.79	72.333	-580.60	-1,624.79	6,023.64	5,936.00	87.65	68.727		
7,000.00	6,984.48	21,094.00	12,727.58	22.68	129.79	72.333	-580.60	-1,624.79	5,925.91	5,837.93	87.99	67.350		
7,100.00	7,084.19	21,094.00	12,727.58	23.05	129.79	72.333	-580.60	-1,624.79	5,828.26	5,739.93	88.34	65.978		
7,200.00	7,183.90	21,094.00	12,727.58	23.42	129.79	72.333	-580.60	-1,624.79	5,730.69	5,642.00	88.69	64.612		
7,300.00	7,283.61	21,094.00	12,727.58	23.78	129.79	72.333	-580.60	-1,624.79	5,633.20	5,544.14	89.06	63.251		
7,400.00	7,383.32	21,094.00	12,727.58	24.15	129.79	72.333	-580.60	-1,624.79	5,535.81	5,446.37	89.44	61.896		
7,500.00	7,483.03	21,094.00	12,727.58	24.52	129.79	72.333	-580.60	-1,624.79	5,438.51	5,348.68	89.82	60.547		
7,600.00	7,582.74	21,094.00	12,727.58	24.89	129.79	72.333	-580.60	-1,624.79	5,341.30	5,251.09	90.22	59.204		
7,700.00	7,682.45	21,094.00	12,727.58	25.25	129.79	72.333	-580.60	-1,624.79	5,244.21	5,153.58	90.62	57.867		
7,800.00	7,782.16	21,094.00	12,727.58	25.62	129.79	72.333	-580.60	-1,624.79	5,147.22	5,056.18	91.04	56.537		
7,900.00	7,881.87	21,094.00	12,727.58	25.99	129.79	72.333	-580.60	-1,624.79	5,050.35	4,958.88	91.47	55.212		
8,000.00	7,981.58	21,094.00	12,727.58	26.36	129.79	72.333	-580.60	-1,624.79	4,953.61	4,861.70	91.91	53.894		
8,100.00	8,081.29	21,094.00	12,727.58	26.73	129.79	72.333	-580.60	-1,624.79	4,857.00	4,764.63	92.37	52.583		
8,200.00	8,181.00	21,094.00	12,727.58	27.10	129.79	72.333	-580.60	-1,624.79	4,760.52	4,667.69	92.84	51.279		
8,300.00	8,280.71	21,094.00	12,727.58	27.47	129.79	72.333	-580.60	-1,624.79	4,664.20	4,570.88	93.32	49.981		
8,400.00	8,380.42	21,094.00	12,727.58	27.84	129.79	72.333	-580.60	-1,624.79	4,568.03	4,474.22	93.82	48.690		
8,500.00	8,480.13	21,094.00	12,727.58	28.21	129.79	72.333	-580.60	-1,624.79	4,472.04	4,377.70	94.33	47.407		
8,600.00	8,579.84	21,094.00	12,727.58	28.58	129.79	72.333	-580.60	-1,624.79	4,376.22	4,281.35	94.86	46.131		
8,700.00	8,679.55	21,094.00	12,727.58	28.95	129.79	72.333	-580.60	-1,624.79	4,280.59	4,185.18	95.42	44.863		
8,800.00	8,779.26	21,094.00	12,727.58	29.32	129.79	72.333	-580.60	-1,624.79	4,185.17	4,089.18	95.99	43.602		
8,900.00	8,878.97	21,094.00	12,727.58	29.69	129.79	72.333	-580.60	-1,624.79	4,089.97	3,993.39	96.58	42.349		
9,000.00	8,978.68	21,094.00	12,727.58	30.06	129.79	72.333	-580.60	-1,624.79	3,995.00	3,897.81	97.19	41.105		
9,100.00	9,078.39	21,094.00	12,727.58	30.43	129.79	72.333	-580.60	-1,624.79	3,900.28	3,802.45	97.83	39.869		
9,200.00	9,178.10	21,094.00	12,727.58	30.80	129.79	72.333	-580.60	-1,624.79	3,805.83	3,707.34	98.49	38.641		
9,300.00	9,277.81	21,094.00	12,727.58	31.17	129.79	72.333	-580.60	-1,624.79	3,711.68	3,612.49	99.18	37.423		
9,400.00	9,377.52	21,094.00	12,727.58	31.54	129.79	72.333	-580.60	-1,624.79	3,617.83	3,517.93	99.90	36.214		
9,500.00	9,477.23	21,094.00	12,727.58	31.91	129.79	72.333	-580.60	-1,624.79	3,524.33	3,423.67	100.65	35.014		
9,600.00	9,576.94	21,094.00	12,727.58	32.29	129.79	72.333	-580.60	-1,624.79	3,431.19	3,329.75	101.44	33.825		
9,700.00	9,676.65	21,094.00	12,727.58	32.66	129.79	72.333	-580.60	-1,624.79	3,338.45	3,236.19	102.26	32.645		
9,800.00	9,776.36	21,094.00	12,727.58	33.03	129.79	72.333	-580.60	-1,624.79	3,246.14	3,143.01	103.13	31.477		

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 432H - OH / 68636 - Surveys (H&P 625)													Offset Site Error:	0.00 usft	
Survey Program:		154-MWD+HDGM								Rule Assigned:				Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
9,900.00	9,876.07	21,094.00	12,727.58	33.40	129.79	72.333	-580.60	-1,624.79	3,154.30	3,050.27	104.03	30.320			
10,000.00	9,975.78	21,094.00	12,727.58	33.77	129.79	72.333	-580.60	-1,624.79	3,062.97	2,957.98	104.99	29.175			
10,100.00	10,075.49	21,094.00	12,727.58	34.14	129.79	72.333	-580.60	-1,624.79	2,972.20	2,866.21	105.99	28.042			
10,200.00	10,175.20	21,094.00	12,727.58	34.52	129.79	72.333	-580.60	-1,624.79	2,882.04	2,774.99	107.05	26.923			
10,300.00	10,274.91	21,094.00	12,727.58	34.89	129.79	72.333	-580.60	-1,624.79	2,792.55	2,684.38	108.16	25.818			
10,400.00	10,374.62	21,094.00	12,727.58	35.26	129.79	72.333	-580.60	-1,624.79	2,703.79	2,594.45	109.34	24.727			
10,500.00	10,474.33	21,094.00	12,727.58	35.63	129.79	72.333	-580.60	-1,624.79	2,615.85	2,505.26	110.59	23.653			
10,600.00	10,574.04	21,094.00	12,727.58	36.01	129.79	72.333	-580.60	-1,624.79	2,528.80	2,416.89	111.92	22.596			
10,700.00	10,673.75	21,094.00	12,727.58	36.38	129.79	72.333	-580.60	-1,624.79	2,442.75	2,329.43	113.32	21.557			
10,800.00	10,773.46	21,094.00	12,727.58	36.75	129.79	72.333	-580.60	-1,624.79	2,357.79	2,242.99	114.81	20.537			
10,900.00	10,873.18	21,094.00	12,727.58	37.12	129.79	72.333	-580.60	-1,624.79	2,274.07	2,157.68	116.39	19.539			
11,000.00	10,972.89	21,094.00	12,727.58	37.50	129.79	72.333	-580.60	-1,624.79	2,191.70	2,073.64	118.06	18.564			
11,100.00	11,072.60	21,094.00	12,727.58	37.87	129.79	72.333	-580.60	-1,624.79	2,110.86	1,991.02	119.84	17.614			
11,200.00	11,172.31	21,094.00	12,727.58	38.24	129.79	72.333	-580.60	-1,624.79	2,031.72	1,910.00	121.72	16.692			
11,300.00	11,272.02	21,094.00	12,727.58	38.62	129.79	72.333	-580.60	-1,624.79	1,954.50	1,830.79	123.71	15.799			
11,381.30	11,353.08	21,094.00	12,727.58	38.92	129.79	72.333	-580.60	-1,624.79	1,893.30	1,767.89	125.41	15.097			
11,400.00	11,371.73	21,094.00	12,727.58	38.98	129.79	71.941	-580.60	-1,624.79	1,879.44	1,753.63	125.81	14.939			
11,500.00	11,471.59	21,094.00	12,727.58	39.34	129.79	69.972	-580.60	-1,624.79	1,807.32	1,679.28	128.05	14.114			
11,599.47	11,571.04	21,094.00	12,727.58	39.49	129.79	-85.795	-580.60	-1,624.79	1,739.20	1,608.81	130.39	13.338			
11,600.00	11,571.57	21,094.00	12,727.58	39.49	129.79	-85.795	-580.60	-1,624.79	1,738.85	1,608.44	130.41	13.334			
11,700.00	11,671.57	21,094.00	12,727.58	39.52	129.79	-85.795	-580.60	-1,624.79	1,674.04	1,541.19	132.84	12.602			
11,800.00	11,771.57	21,094.00	12,727.58	39.52	129.79	-85.795	-580.60	-1,624.79	1,612.82	1,477.49	135.34	11.917			
11,900.00	11,871.57	21,094.00	12,727.58	39.53	129.79	-85.795	-580.60	-1,624.79	1,555.63	1,417.78	137.85	11.285			
12,000.00	11,971.57	21,094.00	12,727.58	39.54	129.79	-85.795	-580.60	-1,624.79	1,502.93	1,362.58	140.35	10.708			
12,099.47	12,071.04	21,094.00	12,727.58	39.54	129.79	-85.795	-580.60	-1,624.79	1,455.43	1,312.67	142.76	10.195			
12,100.00	12,071.57	21,094.00	12,727.58	39.55	129.79	94.785	-580.60	-1,624.79	1,455.19	1,312.42	142.77	10.192			
12,150.00	12,121.50	21,094.00	12,727.58	39.65	129.79	97.174	-580.60	-1,624.79	1,433.54	1,289.63	143.91	9.961			
12,200.00	12,171.05	21,094.00	12,727.58	39.91	129.79	99.297	-580.60	-1,624.79	1,413.83	1,268.87	144.96	9.753			
12,250.00	12,219.84	21,094.00	12,727.58	40.20	129.79	101.140	-580.60	-1,624.79	1,396.30	1,250.41	145.89	9.571			
12,300.00	12,267.50	21,094.00	12,727.58	40.50	129.79	102.695	-580.60	-1,624.79	1,381.16	1,234.49	146.67	9.417			
12,350.00	12,313.66	21,094.00	12,727.58	40.80	129.79	103.957	-580.60	-1,624.79	1,368.61	1,221.31	147.30	9.291			
12,400.00	12,357.98	21,094.00	12,727.58	41.09	129.79	104.925	-580.60	-1,624.79	1,358.81	1,211.05	147.76	9.196			
12,450.00	12,400.11	21,094.00	12,727.58	41.38	129.79	105.597	-580.60	-1,624.79	1,351.91	1,203.86	148.05	9.131			
12,500.00	12,439.74	21,094.00	12,727.58	41.66	129.79	105.975	-580.60	-1,624.79	1,348.00	1,199.83	148.17	9.097			
12,539.12	12,468.80	21,094.00	12,727.58	41.86	129.79	106.065	-580.60	-1,624.79	1,347.06	1,198.91	148.15	9.092	CC, ES, SF		
12,550.00	12,476.56	21,094.00	12,727.58	41.92	129.79	106.058	-580.60	-1,624.79	1,347.14	1,199.01	148.13	9.095			
12,600.00	12,510.29	21,094.00	12,727.58	42.16	129.79	105.847	-580.60	-1,624.79	1,349.33	1,201.41	147.92	9.122			
12,650.00	12,540.68	21,094.00	12,727.58	42.39	129.79	105.341	-580.60	-1,624.79	1,354.55	1,206.97	147.58	9.178			
12,700.00	12,567.50	21,094.00	12,727.58	42.58	129.79	104.540	-580.60	-1,624.79	1,362.73	1,215.61	147.12	9.263			
12,750.00	12,590.54	21,094.00	12,727.58	42.76	129.79	103.444	-580.60	-1,624.79	1,373.74	1,227.19	146.55	9.374			
12,800.00	12,609.63	21,094.00	12,727.58	42.91	129.79	102.054	-580.60	-1,624.79	1,387.44	1,241.56	145.88	9.511			
12,850.00	12,624.61	21,094.00	12,727.58	43.03	129.79	100.373	-580.60	-1,624.79	1,403.65	1,258.50	145.15	9.670			
12,900.00	12,635.39	21,094.00	12,727.58	43.12	129.79	98.407	-580.60	-1,624.79	1,422.16	1,277.81	144.35	9.852			
12,950.00	12,641.87	21,094.00	12,727.58	43.19	129.79	96.166	-580.60	-1,624.79	1,442.74	1,299.24	143.50	10.054			
12,999.47	12,644.00	21,094.00	12,727.58	43.23	129.79	93.694	-580.60	-1,624.79	1,464.91	1,322.28	142.63	10.271			
13,000.00	12,644.00	21,094.00	12,727.58	43.24	129.79	93.694	-580.60	-1,624.79	1,465.16	1,322.54	142.62	10.273			
13,100.00	12,644.00	21,094.00	12,727.58	43.31	129.79	93.694	-580.60	-1,624.79	1,514.24	1,373.44	140.80	10.755			
13,200.00	12,644.00	21,094.00	12,727.58	43.39	129.79	93.694	-580.60	-1,624.79	1,568.18	1,429.23	138.95	11.286			
13,300.00	12,644.00	21,094.00	12,727.58	43.50	129.79	93.694	-580.60	-1,624.79	1,626.48	1,489.39	137.09	11.864			
13,400.00	12,644.00	21,094.00	12,727.58	43.63	129.79	93.694	-580.60	-1,624.79	1,688.69	1,553.46	135.23	12.488			
13,500.00	12,644.00	21,094.00	12,727.58	43.78	129.79	93.694	-580.60	-1,624.79	1,754.40	1,621.01	133.39	13.152			
13,600.00	12,644.00	21,094.00	12,727.58	43.96	129.79	93.694	-580.60	-1,624.79	1,823.23	1,691.63	131.60	13.855			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 432H - OH / 68636 - Surveys (H&P 625)													Offset Site Error:	0.00 usft	
Survey Program:		154-MWD+HDGM		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
13,700.00	12,644.00	21,094.00	12,727.58	44.18	129.79	93.694	-580.60	-1,624.79	1,894.84	1,764.99	129.85	14.592			
13,800.00	12,644.00	21,094.00	12,727.58	44.44	129.79	93.694	-580.60	-1,624.79	1,968.92	1,840.75	128.17	15.362			
13,900.00	12,644.00	21,094.00	12,727.58	44.74	129.79	93.694	-580.60	-1,624.79	2,045.22	1,918.66	126.56	16.160			
14,000.00	12,644.00	21,094.00	12,727.58	45.11	129.79	93.694	-580.60	-1,624.79	2,123.48	1,998.46	125.02	16.985			
14,100.00	12,644.00	21,094.00	12,727.58	45.54	129.79	93.694	-580.60	-1,624.79	2,203.50	2,079.94	123.56	17.834			
14,200.00	12,644.00	21,094.00	12,727.58	46.05	129.79	93.694	-580.60	-1,624.79	2,285.09	2,162.92	122.18	18.703			
14,300.00	12,644.00	21,094.00	12,727.58	46.65	129.79	93.694	-580.60	-1,624.79	2,368.10	2,247.23	120.87	19.592			
14,400.00	12,644.00	21,094.00	12,727.58	47.33	129.79	93.694	-580.60	-1,624.79	2,452.37	2,332.74	119.64	20.498			
14,500.00	12,644.00	21,094.00	12,727.58	48.09	129.79	93.694	-580.60	-1,624.79	2,537.79	2,419.31	118.48	21.419			
14,600.00	12,644.00	21,094.00	12,727.58	48.94	129.79	93.694	-580.60	-1,624.79	2,624.24	2,506.85	117.39	22.354			
14,700.00	12,644.00	21,094.00	12,727.58	49.86	129.79	93.694	-580.60	-1,624.79	2,711.62	2,595.25	116.37	23.302			
14,800.00	12,644.00	21,094.00	12,727.58	50.85	129.79	93.694	-580.60	-1,624.79	2,799.84	2,684.43	115.41	24.260			
14,900.00	12,644.00	21,094.00	12,727.58	51.89	129.79	93.694	-580.60	-1,624.79	2,888.84	2,774.32	114.51	25.227			
15,000.00	12,644.00	21,094.00	12,727.58	52.99	129.79	93.694	-580.60	-1,624.79	2,978.53	2,864.86	113.67	26.203			
15,100.00	12,644.00	21,094.00	12,727.58	54.12	129.79	93.694	-580.60	-1,624.79	3,068.85	2,955.97	112.88	27.186			
15,200.00	12,644.00	21,094.00	12,727.58	55.29	129.79	93.694	-580.60	-1,624.79	3,159.76	3,047.62	112.14	28.176			
15,300.00	12,644.00	21,094.00	12,727.58	56.49	129.79	93.694	-580.60	-1,624.79	3,251.21	3,139.76	111.45	29.172			
15,400.00	12,644.00	21,094.00	12,727.58	57.72	129.79	93.694	-580.60	-1,624.79	3,343.14	3,232.34	110.80	30.173			
15,500.00	12,644.00	21,094.00	12,727.58	58.96	129.79	93.694	-580.60	-1,624.79	3,435.53	3,325.34	110.19	31.177			
15,600.00	12,644.00	21,094.00	12,727.58	60.22	129.79	93.694	-580.60	-1,624.79	3,528.33	3,418.71	109.62	32.186			
15,700.00	12,644.00	21,094.00	12,727.58	61.50	129.79	93.694	-580.60	-1,624.79	3,621.51	3,512.42	109.09	33.198			
15,800.00	12,644.00	21,094.00	12,727.58	62.79	129.79	93.694	-580.60	-1,624.79	3,715.05	3,606.46	108.59	34.212			
15,900.00	12,644.00	21,094.00	12,727.58	64.09	129.79	93.694	-580.60	-1,624.79	3,808.92	3,700.80	108.12	35.228			
16,000.00	12,644.00	21,094.00	12,727.58	65.40	129.79	93.694	-580.60	-1,624.79	3,903.09	3,795.41	107.68	36.247			
16,100.00	12,644.00	21,094.00	12,727.58	66.72	129.79	93.694	-580.60	-1,624.79	3,997.54	3,890.27	107.27	37.266			
16,200.00	12,644.00	21,094.00	12,727.58	68.04	129.79	93.694	-580.60	-1,624.79	4,092.26	3,985.38	106.88	38.287			
16,300.00	12,644.00	21,094.00	12,727.58	69.38	129.79	93.694	-580.60	-1,624.79	4,187.22	4,080.70	106.52	39.309			
16,400.00	12,644.00	21,094.00	12,727.58	70.72	129.79	93.694	-580.60	-1,624.79	4,282.41	4,176.23	106.18	40.331			
16,500.00	12,644.00	21,094.00	12,727.58	72.07	129.79	93.694	-580.60	-1,624.79	4,377.82	4,271.96	105.86	41.353			
16,600.00	12,644.00	21,094.00	12,727.58	73.42	129.79	93.694	-580.60	-1,624.79	4,473.43	4,367.86	105.57	42.375			
16,700.00	12,644.00	21,094.00	12,727.58	74.77	129.79	93.694	-580.60	-1,624.79	4,569.22	4,463.94	105.29	43.397			
16,800.00	12,644.00	21,094.00	12,727.58	76.13	129.79	93.694	-580.60	-1,624.79	4,665.20	4,560.17	105.03	44.419			
16,900.00	12,644.00	21,094.00	12,727.58	77.49	129.79	93.694	-580.60	-1,624.79	4,761.33	4,656.55	104.78	45.440			
17,000.00	12,644.00	21,094.00	12,727.58	78.86	129.79	93.694	-580.60	-1,624.79	4,857.63	4,753.08	104.55	46.461			
17,100.00	12,644.00	21,094.00	12,727.58	80.23	129.79	93.694	-580.60	-1,624.79	4,954.07	4,849.73	104.34	47.480			
17,200.00	12,644.00	21,094.00	12,727.58	81.60	129.79	93.694	-580.60	-1,624.79	5,050.65	4,946.51	104.14	48.499			
17,300.00	12,644.00	21,094.00	12,727.58	82.98	129.79	93.694	-580.60	-1,624.79	5,147.36	5,043.41	103.95	49.517			
17,400.00	12,644.00	21,094.00	12,727.58	84.36	129.79	93.694	-580.60	-1,624.79	5,244.19	5,140.41	103.78	50.533			
17,500.00	12,644.00	21,094.00	12,727.58	85.74	129.79	93.694	-580.60	-1,624.79	5,341.14	5,237.53	103.61	51.548			
17,600.00	12,644.00	21,094.00	12,727.58	87.12	129.79	93.694	-580.60	-1,624.79	5,438.20	5,334.74	103.46	52.562			
17,700.00	12,644.00	21,094.00	12,727.58	88.51	129.79	93.694	-580.60	-1,624.79	5,535.37	5,432.04	103.32	53.574			
17,800.00	12,644.00	21,094.00	12,727.58	89.89	129.79	93.694	-580.60	-1,624.79	5,632.63	5,529.44	103.19	54.584			
17,900.00	12,644.00	21,094.00	12,727.58	91.28	129.79	93.694	-580.60	-1,624.79	5,729.99	5,626.92	103.07	55.593			
18,000.00	12,644.00	21,094.00	12,727.58	92.67	129.79	93.694	-580.60	-1,624.79	5,827.44	5,724.48	102.96	56.600			
18,100.00	12,644.00	21,094.00	12,727.58	94.07	129.79	93.694	-580.60	-1,624.79	5,924.97	5,822.12	102.85	57.606			
18,200.00	12,644.00	21,094.00	12,727.58	95.46	129.79	93.694	-580.60	-1,624.79	6,022.58	5,919.83	102.76	58.609			
18,300.00	12,644.00	21,094.00	12,727.58	96.85	129.79	93.694	-580.60	-1,624.79	6,120.27	6,017.60	102.67	59.611			
18,400.00	12,644.00	21,094.00	12,727.58	98.25	129.79	93.694	-580.60	-1,624.79	6,218.04	6,115.45	102.59	60.611			
18,500.00	12,644.00	21,094.00	12,727.58	99.65	129.79	93.694	-580.60	-1,624.79	6,315.87	6,213.36	102.52	61.609			
18,600.00	12,644.00	21,094.00	12,727.58	101.05	129.79	93.694	-580.60	-1,624.79	6,413.77	6,311.33	102.45	62.605			
18,700.00	12,644.00	21,094.00	12,727.58	102.45	129.79	93.694	-580.60	-1,624.79	6,511.74	6,409.35	102.39	63.598			
18,800.00	12,644.00	21,094.00	12,727.58	103.85	129.79	93.694	-580.60	-1,624.79	6,609.77	6,507.43	102.33	64.590			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 432H - OH / 68636 - Surveys (H&P 625)												Offset Site Error:	0.00 usft		
Survey Program:		154-MWD+HDGM		Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance	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		
18,900.00	12,644.00	21,094.00	12,727.58	105.25	129.79	93.694	-580.60	-1,624.79	6,707.85	6,605.56	102.29	65.579			
19,000.00	12,644.00	21,094.00	12,727.58	106.65	129.79	93.694	-580.60	-1,624.79	6,805.99	6,703.75	102.24	66.566			
19,100.00	12,644.00	21,094.00	12,727.58	108.06	129.79	93.694	-580.60	-1,624.79	6,904.18	6,801.98	102.21	67.551			
19,200.00	12,644.00	21,094.00	12,727.58	109.46	129.79	93.694	-580.60	-1,624.79	7,002.43	6,900.25	102.17	68.534			
19,300.00	12,644.00	21,094.00	12,727.58	110.87	129.79	93.694	-580.60	-1,624.79	7,100.72	6,998.57	102.15	69.515			
19,400.00	12,644.00	21,094.00	12,727.58	112.28	129.79	93.694	-580.60	-1,624.79	7,199.06	7,096.94	102.12	70.493			
19,500.00	12,644.00	21,094.00	12,727.58	113.68	129.79	93.694	-580.60	-1,624.79	7,297.45	7,195.34	102.11	71.469			
19,600.00	12,644.00	21,094.00	12,727.58	115.09	129.79	93.694	-580.60	-1,624.79	7,395.88	7,293.78	102.09	72.443			
19,700.00	12,644.00	21,094.00	12,727.58	116.50	129.79	93.694	-580.60	-1,624.79	7,494.35	7,392.26	102.08	73.414			
19,800.00	12,644.00	21,094.00	12,727.58	117.91	129.79	93.694	-580.60	-1,624.79	7,592.86	7,490.78	102.08	74.383			
19,900.00	12,644.00	21,094.00	12,727.58	119.32	129.79	93.694	-580.60	-1,624.79	7,691.41	7,589.33	102.08	75.349			
20,000.00	12,644.00	21,094.00	12,727.58	120.73	129.79	93.694	-580.60	-1,624.79	7,789.99	7,687.91	102.08	76.313			
20,100.00	12,644.00	21,094.00	12,727.58	122.15	129.79	93.694	-580.60	-1,624.79	7,888.61	7,786.53	102.09	77.274			
20,200.00	12,644.00	21,094.00	12,727.58	123.56	129.79	93.694	-580.60	-1,624.79	7,987.27	7,885.17	102.10	78.234			
20,300.00	12,644.00	21,094.00	12,727.58	124.97	129.79	93.694	-580.60	-1,624.79	8,085.96	7,983.85	102.11	79.190			
20,400.00	12,644.00	21,094.00	12,727.58	126.38	129.79	93.694	-580.60	-1,624.79	8,184.68	8,082.55	102.12	80.144			
20,500.00	12,644.00	21,094.00	12,727.58	127.80	129.79	93.694	-580.60	-1,624.79	8,283.43	8,181.29	102.14	81.096			
20,600.00	12,644.00	21,094.00	12,727.58	129.21	129.79	93.694	-580.60	-1,624.79	8,382.21	8,280.04	102.17	82.045			
20,700.00	12,644.00	21,094.00	12,727.58	130.63	129.79	93.694	-580.60	-1,624.79	8,481.02	8,378.83	102.19	82.991			
20,800.00	12,644.00	21,094.00	12,727.58	132.04	129.79	93.694	-580.60	-1,624.79	8,579.86	8,477.64	102.22	83.935			
20,900.00	12,644.00	21,094.00	12,727.58	133.46	129.79	93.694	-580.60	-1,624.79	8,678.72	8,576.47	102.25	84.877			
21,000.00	12,644.00	21,094.00	12,727.58	134.88	129.79	93.694	-580.60	-1,624.79	8,777.61	8,675.32	102.28	85.815			
21,100.00	12,644.00	21,094.00	12,727.58	136.29	129.79	93.694	-580.60	-1,624.79	8,876.52	8,774.20	102.32	86.752			
21,200.00	12,644.00	21,094.00	12,727.58	137.71	129.79	93.694	-580.60	-1,624.79	8,975.46	8,873.10	102.36	87.685			
21,300.00	12,644.00	21,094.00	12,727.58	139.13	129.79	93.694	-580.60	-1,624.79	9,074.42	8,972.02	102.40	88.616			
21,400.00	12,644.00	21,094.00	12,727.58	140.54	129.79	93.694	-580.60	-1,624.79	9,173.41	9,070.96	102.44	89.545			
21,500.00	12,644.00	21,094.00	12,727.58	141.96	129.79	93.694	-580.60	-1,624.79	9,272.41	9,169.92	102.49	90.471			
21,600.00	12,644.00	21,094.00	12,727.58	143.38	129.79	93.694	-580.60	-1,624.79	9,371.44	9,268.90	102.54	91.394			
21,700.00	12,644.00	21,094.00	12,727.58	144.80	129.79	93.694	-580.60	-1,624.79	9,470.49	9,367.90	102.59	92.314			
21,800.00	12,644.00	21,094.00	12,727.58	146.22	129.79	93.694	-580.60	-1,624.79	9,569.56	9,466.91	102.64	93.232			
21,900.00	12,644.00	21,094.00	12,727.58	147.64	129.79	93.694	-580.60	-1,624.79	9,668.64	9,565.95	102.70	94.147			
22,000.00	12,644.00	21,094.00	12,727.58	149.06	129.79	93.694	-580.60	-1,624.79	9,767.75	9,664.99	102.75	95.060			
22,100.00	12,644.00	21,094.00	12,727.58	150.48	129.79	93.694	-580.60	-1,624.79	9,866.87	9,764.06	102.81	95.969			
22,199.47	12,644.00	21,094.00	12,727.58	151.89	129.79	93.694	-580.60	-1,624.79	9,965.49	9,862.62	102.87	96.872			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 433H - OH / 68696 - Surveys (H&P 656)													Offset Site Error: 0.00 usft
Survey Program: 188-MWD+HdGM													Offset Well Error: 1.00 usft
Rule Assigned:													Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	52.95	-0.05	1.00	1.00	-0.560	7,906.47	-77.23	7,906.85				
100.00	100.00	152.85	99.85	1.08	1.03	-0.557	7,906.47	-76.81	7,906.85	7,904.74	2.11	3,744.674	
200.00	200.00	239.91	186.91	1.60	1.11	-0.552	7,906.52	-76.15	7,906.90	7,904.20	2.71	2,922.136	
300.00	300.00	320.01	267.00	2.01	1.26	-0.547	7,906.76	-75.48	7,907.19	7,903.93	3.27	2,420.417	
400.00	400.00	412.53	359.52	2.35	1.48	-0.541	7,907.22	-74.61	7,907.68	7,903.84	3.83	2,062.322	
500.00	500.00	508.91	455.89	2.65	1.75	-0.533	7,907.75	-73.54	7,908.21	7,903.81	4.41	1,794.786	
600.00	600.00	588.67	535.64	2.93	1.99	-0.526	7,908.29	-72.55	7,908.89	7,903.97	4.92	1,607.394	
700.00	700.00	666.26	613.22	3.18	2.24	-0.518	7,909.04	-71.52	7,909.84	7,904.42	5.42	1,460.291	
800.00	800.00	699.00	645.96	3.41	2.34	-0.515	7,909.42	-71.06	7,911.24	7,905.49	5.76	1,374.225	
900.00	900.00	793.33	740.28	3.64	2.64	-0.512	7,910.95	-70.75	7,912.88	7,906.60	6.28	1,260.283	
1,000.00	1,000.00	882.00	828.90	3.85	2.93	-0.523	7,913.06	-72.30	7,915.24	7,908.47	6.78	1,168.009	
1,100.00	1,100.00	920.69	867.56	4.05	3.06	-0.531	7,914.16	-73.42	7,917.91	7,910.81	7.10	1,114.781	
1,200.00	1,200.00	995.66	942.45	4.24	3.30	-0.549	7,916.45	-75.87	7,921.00	7,913.46	7.54	1,050.508	
1,300.00	1,300.00	1,072.00	1,018.70	4.43	3.55	-0.570	7,919.03	-78.77	7,924.41	7,916.44	7.98	993.405	
1,400.00	1,400.00	1,454.81	1,401.21	4.61	4.85	-0.646	7,925.70	-89.34	7,926.20	7,916.75	9.46	838.267	
1,423.73	1,423.73	1,477.32	1,423.73	4.65	4.93	-0.645	7,925.70	-89.26	7,926.20	7,916.63	9.57	827.908	
1,500.00	1,500.00	1,549.71	1,496.11	4.78	5.18	-0.644	7,925.72	-89.13	7,926.22	7,916.27	9.95	796.240	
1,600.00	1,599.98	1,647.15	1,593.55	4.98	5.51	153.365	7,925.79	-89.19	7,927.86	7,917.39	10.46	757.693	
1,700.00	1,699.84	1,748.74	1,695.14	5.60	5.86	153.339	7,925.86	-89.27	7,932.60	7,921.26	11.34	699.339	
1,718.18	1,717.96	1,767.18	1,713.58	5.62	5.92	153.333	7,925.87	-89.28	7,933.80	7,922.38	11.42	694.825	
1,800.00	1,799.55	1,853.83	1,800.23	5.72	6.22	153.353	7,925.90	-89.49	7,939.39	7,927.58	11.81	671.978	
1,900.00	1,899.26	1,962.44	1,908.83	5.89	6.60	153.369	7,925.81	-90.95	7,946.13	7,933.78	12.35	643.153	
2,000.00	1,998.97	2,036.78	1,983.15	6.09	6.86	153.375	7,925.77	-92.68	7,952.93	7,940.13	12.80	621.461	
2,100.00	2,098.68	2,101.06	2,047.41	6.30	7.08	153.378	7,926.03	-94.39	7,960.16	7,946.94	13.22	602.230	
2,200.00	2,198.39	2,177.00	2,123.31	6.53	7.34	153.381	7,926.70	-96.65	7,967.84	7,954.15	13.69	581.979	
2,300.00	2,298.10	2,283.94	2,230.20	6.77	7.72	153.385	7,927.75	-99.76	7,975.66	7,961.38	14.29	558.269	
2,400.00	2,397.81	2,366.00	2,312.23	7.02	8.00	153.390	7,928.32	-101.79	7,983.24	7,968.43	14.80	539.240	
2,500.00	2,497.52	2,441.19	2,387.39	7.28	8.27	153.395	7,929.05	-103.77	7,991.09	7,975.78	15.31	521.984	
2,600.00	2,597.23	2,495.92	2,442.08	7.55	8.46	153.395	7,929.94	-105.54	7,999.55	7,983.80	15.75	507.958	
2,700.00	2,696.94	2,555.00	2,501.11	7.83	8.67	153.394	7,931.25	-107.77	8,008.58	7,992.37	16.21	494.050	
2,800.00	2,796.65	2,645.84	2,591.86	8.12	8.99	153.391	7,933.53	-111.22	8,017.92	8,001.13	16.79	477.432	
2,900.00	2,896.36	2,744.00	2,689.93	8.42	9.34	153.392	7,936.01	-114.45	8,027.28	8,009.87	17.41	461.067	
3,000.00	2,996.07	2,838.61	2,784.47	8.72	9.68	153.397	7,938.45	-117.08	8,036.68	8,018.66	18.02	445.997	
3,100.00	3,095.78	2,934.00	2,879.80	9.03	10.02	153.405	7,940.97	-119.25	8,046.15	8,027.51	18.64	431.734	
3,200.00	3,195.49	3,011.86	2,957.61	9.34	10.30	153.410	7,943.16	-121.18	8,055.77	8,036.58	19.20	419.674	
3,300.00	3,295.20	3,090.90	3,036.56	9.66	10.58	153.411	7,945.57	-123.82	8,065.65	8,045.89	19.76	408.143	
3,400.00	3,394.91	3,181.77	3,127.32	9.98	10.90	153.407	7,948.53	-127.47	8,075.74	8,055.36	20.38	396.344	
3,500.00	3,494.62	3,280.78	3,226.20	10.30	11.26	153.405	7,951.78	-131.18	8,085.85	8,064.83	21.02	384.621	
3,600.00	3,594.33	3,361.71	3,307.04	10.63	11.55	153.405	7,954.50	-133.89	8,096.05	8,074.44	21.61	374.702	
3,700.00	3,694.04	3,434.26	3,379.52	10.96	11.81	153.408	7,957.17	-135.93	8,106.56	8,084.40	22.16	365.787	
3,800.00	3,793.75	3,511.10	3,456.27	11.29	12.09	153.415	7,960.27	-137.67	8,117.40	8,094.66	22.74	357.036	
3,900.00	3,893.47	3,638.32	3,583.35	11.63	12.54	153.424	7,965.32	-140.78	8,128.18	8,104.68	23.50	345.904	
4,000.00	3,993.18	3,744.09	3,689.00	11.97	12.92	153.427	7,969.23	-143.94	8,138.70	8,114.52	24.18	336.531	
4,100.00	4,092.89	3,843.63	3,788.43	12.31	13.28	153.431	7,972.95	-146.82	8,149.26	8,124.41	24.85	327.951	
4,200.00	4,192.60	3,950.10	3,894.79	12.65	13.66	153.436	7,976.86	-149.78	8,159.75	8,134.21	25.54	319.467	
4,300.00	4,292.31	4,138.74	4,083.20	13.00	14.34	153.431	7,982.77	-156.90	8,169.77	8,143.23	26.54	307.815	
4,400.00	4,392.02	4,255.57	4,199.82	13.34	14.76	153.415	7,985.51	-163.23	8,178.96	8,151.68	27.28	299.862	
4,500.00	4,491.73	4,360.68	4,304.76	13.69	15.14	153.402	7,987.90	-168.71	8,188.08	8,160.11	27.97	292.759	
4,600.00	4,591.44	4,466.00	4,410.50	14.04	15.52	161.923	-130.04	-282.66	8,112.47	8,036.22	76.25	106.395	
4,700.00	4,691.15	4,566.00	4,510.50	14.39	15.90	161.923	-130.04	-282.66	8,012.78	7,936.38	76.40	104.873	
4,800.00	4,790.86	4,666.00	4,610.50	14.74	16.28	162.777	-166.90	-278.78	7,912.71	7,835.85	76.85	102.958	
4,900.00	4,890.57	4,766.00	4,710.50	15.10	16.66	162.814	-168.54	-278.64	7,813.00	7,735.97	77.03	101.431	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 433H - OH / 68696 - Surveys (H&P 656)													Offset Site Error:	0.00 usft	
Survey Program:		188-MWD+HDGM								Rule Assigned:				Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,000.00	4,990.28	20,856.40	12,701.55	15.45	124.71	162.852	-170.21	-278.51	7,713.29	7,636.09	77.20	99.907			
5,100.00	5,089.99	20,858.11	12,701.57	15.81	124.74	162.891	-171.92	-278.37	7,613.60	7,536.21	77.38	98.387			
5,200.00	5,189.70	20,859.86	12,701.58	16.16	124.76	162.930	-173.67	-278.23	7,513.90	7,436.34	77.57	96.870			
5,300.00	5,289.41	20,861.65	12,701.60	16.52	124.78	162.970	-175.46	-278.10	7,414.22	7,336.47	77.75	95.357			
5,400.00	5,389.12	20,863.48	12,701.63	16.88	124.81	163.011	-177.28	-277.96	7,314.54	7,236.60	77.94	93.848			
5,500.00	5,488.83	20,865.35	12,701.65	17.24	124.83	163.052	-179.14	-277.83	7,214.87	7,136.74	78.13	92.343			
5,600.00	5,588.54	20,867.26	12,701.68	17.59	124.86	163.095	-181.05	-277.69	7,115.21	7,036.88	78.33	90.841			
5,700.00	5,688.25	20,869.21	12,701.71	17.95	124.88	163.138	-183.00	-277.56	7,015.55	6,937.03	78.52	89.344			
5,800.00	5,787.96	20,871.21	12,701.74	18.32	124.91	163.182	-184.99	-277.43	6,915.90	6,837.18	78.72	87.852			
5,900.00	5,887.67	20,873.26	12,701.77	18.68	124.94	163.227	-187.03	-277.30	6,816.26	6,737.33	78.93	86.364			
6,000.00	5,987.38	20,910.00	12,702.67	19.04	125.43	164.012	-223.73	-275.74	6,716.98	6,637.57	79.41	84.591			
6,100.00	6,087.09	20,910.00	12,702.67	19.40	125.43	164.012	-223.73	-275.74	6,617.31	6,537.72	79.60	83.135			
6,200.00	6,186.80	20,910.00	12,702.67	19.76	125.43	164.012	-223.73	-275.74	6,517.66	6,437.86	79.79	81.683			
6,300.00	6,286.51	20,910.00	12,702.67	20.13	125.43	164.012	-223.73	-275.74	6,418.01	6,338.02	79.99	80.236			
6,400.00	6,386.22	20,910.00	12,702.67	20.49	125.43	164.012	-223.73	-275.74	6,318.38	6,238.19	80.19	78.794			
6,500.00	6,485.93	20,910.00	12,702.67	20.86	125.43	164.012	-223.73	-275.74	6,218.75	6,138.36	80.39	77.356			
6,600.00	6,585.64	20,910.00	12,702.67	21.22	125.43	164.012	-223.73	-275.74	6,119.14	6,038.55	80.60	75.923			
6,700.00	6,685.35	20,910.00	12,702.67	21.59	125.43	164.012	-223.73	-275.74	6,019.55	5,938.74	80.80	74.496			
6,800.00	6,785.06	20,910.00	12,702.67	21.95	125.43	164.012	-223.73	-275.74	5,919.96	5,838.95	81.01	73.074			
6,900.00	6,884.77	20,910.00	12,702.67	22.32	125.43	164.012	-223.73	-275.74	5,820.39	5,739.17	81.23	71.656			
7,000.00	6,984.48	20,910.00	12,702.67	22.68	125.43	164.012	-223.73	-275.74	5,720.84	5,639.40	81.44	70.245			
7,100.00	7,084.19	20,910.00	12,702.67	23.05	125.43	164.012	-223.73	-275.74	5,621.30	5,539.64	81.66	68.839			
7,200.00	7,183.90	20,910.00	12,702.67	23.42	125.43	164.012	-223.73	-275.74	5,521.78	5,439.90	81.88	67.438			
7,300.00	7,283.61	20,910.00	12,702.67	23.78	125.43	164.012	-223.73	-275.74	5,422.27	5,340.17	82.10	66.043			
7,400.00	7,383.32	20,910.00	12,702.67	24.15	125.43	164.012	-223.73	-275.74	5,322.79	5,240.46	82.33	64.654			
7,500.00	7,483.03	20,910.00	12,702.67	24.52	125.43	164.012	-223.73	-275.74	5,223.32	5,140.77	82.56	63.270			
7,600.00	7,582.74	20,910.00	12,702.67	24.89	125.43	164.012	-223.73	-275.74	5,123.88	5,041.09	82.79	61.893			
7,700.00	7,682.45	20,910.00	12,702.67	25.25	125.43	164.012	-223.73	-275.74	5,024.45	4,941.43	83.02	60.522			
7,800.00	7,782.16	20,910.00	12,702.67	25.62	125.43	164.012	-223.73	-275.74	4,925.05	4,841.80	83.25	59.157			
7,900.00	7,881.87	20,910.00	12,702.67	25.99	125.43	164.012	-223.73	-275.74	4,825.68	4,742.19	83.49	57.798			
8,000.00	7,981.58	20,910.00	12,702.67	26.36	125.43	164.012	-223.73	-275.74	4,726.33	4,642.60	83.73	56.446			
8,100.00	8,081.29	20,910.00	12,702.67	26.73	125.43	164.012	-223.73	-275.74	4,627.01	4,543.03	83.97	55.100			
8,200.00	8,181.00	20,940.82	12,703.84	27.10	125.85	164.663	-254.53	-275.29	4,527.44	4,442.96	84.47	53.595			
8,300.00	8,280.71	20,945.06	12,704.03	27.47	125.90	164.755	-258.76	-275.26	4,428.09	4,343.34	84.76	52.244			
8,400.00	8,380.42	20,949.42	12,704.23	27.84	125.96	164.850	-263.12	-275.24	4,328.77	4,243.72	85.04	50.900			
8,500.00	8,480.13	20,953.92	12,704.44	28.21	126.02	164.948	-267.60	-275.23	4,229.46	4,144.13	85.34	49.563			
8,600.00	8,579.84	20,958.54	12,704.67	28.58	126.09	165.050	-272.22	-275.22	4,130.18	4,044.55	85.63	48.233			
8,700.00	8,679.55	20,963.30	12,704.91	28.95	126.15	165.156	-276.98	-275.23	4,030.92	3,944.99	85.93	46.911			
8,800.00	8,779.26	20,968.21	12,705.17	29.32	126.22	165.266	-281.88	-275.25	3,931.68	3,845.45	86.23	45.595			
8,900.00	8,878.97	20,973.28	12,705.44	29.69	126.28	165.380	-286.94	-275.29	3,832.46	3,745.92	86.54	44.288			
9,000.00	8,978.68	21,004.00	12,707.31	30.06	126.70	166.096	-317.60	-275.74	3,733.47	3,646.41	87.06	42.884			
9,100.00	9,078.39	21,004.00	12,707.31	30.43	126.70	166.096	-317.60	-275.74	3,634.23	3,546.90	87.33	41.616			
9,200.00	9,178.10	21,004.00	12,707.31	30.80	126.70	166.096	-317.60	-275.74	3,535.03	3,447.43	87.60	40.355			
9,300.00	9,277.81	21,004.00	12,707.31	31.17	126.70	166.096	-317.60	-275.74	3,435.88	3,348.00	87.87	39.101			
9,400.00	9,377.52	21,004.00	12,707.31	31.54	126.70	166.096	-317.60	-275.74	3,336.77	3,248.63	88.15	37.854			
9,500.00	9,477.23	21,012.84	12,707.89	31.91	126.82	166.311	-326.42	-275.94	3,237.72	3,149.22	88.50	36.584			
9,600.00	9,576.94	21,029.25	12,708.96	32.29	127.04	166.731	-342.79	-276.32	3,138.66	3,049.73	88.92	35.296			
9,700.00	9,676.65	21,045.43	12,710.00	32.66	127.25	167.175	-358.93	-276.72	3,039.58	2,950.24	89.35	34.020			
9,800.00	9,776.36	21,061.40	12,711.02	33.03	127.47	167.645	-374.87	-277.13	2,940.50	2,850.73	89.77	32.755			
9,900.00	9,876.07	21,077.16	12,712.00	33.40	127.68	168.143	-390.59	-277.55	2,841.41	2,751.22	90.20	31.502			
10,000.00	9,975.78	21,092.72	12,712.96	33.77	127.89	168.674	-406.11	-277.98	2,742.32	2,651.69	90.63	30.260			
10,100.00	10,075.49	21,118.44	12,714.48	34.14	128.23	169.651	-431.78	-278.70	2,643.19	2,552.04	91.15	28.999			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 433H - OH / 68696 - Surveys (H&P 656)													Offset Site Error: 0.00 usft
Survey Program: 188-MWD+HdGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,200.00	10,175.20	21,146.93	12,716.00	34.52	128.62	170.925	-460.22	-279.44	2,543.99	2,452.29	91.70	27.742	
10,300.00	10,274.91	21,172.70	12,717.22	34.89	128.96	172.293	-485.95	-280.06	2,444.73	2,352.50	92.23	26.506	
10,400.00	10,374.62	21,196.12	12,718.20	35.26	129.28	173.763	-509.34	-280.57	2,345.41	2,252.66	92.75	25.287	
10,500.00	10,474.33	21,199.97	12,718.38	35.63	129.33	174.027	-513.19	-280.66	2,246.11	2,153.01	93.09	24.127	
10,600.00	10,574.04	21,211.10	12,718.85	36.01	129.48	174.836	-524.31	-280.90	2,146.81	2,053.30	93.51	22.958	
10,700.00	10,673.75	21,222.23	12,719.33	36.38	129.63	175.714	-535.43	-281.15	2,047.51	1,953.58	93.93	21.799	
10,800.00	10,773.46	21,233.37	12,719.80	36.75	129.78	176.670	-546.55	-281.39	1,948.22	1,853.87	94.35	20.649	
10,900.00	10,873.18	21,235.00	12,719.87	37.12	129.80	176.818	-548.18	-281.43	1,848.97	1,754.28	94.69	19.527	
11,000.00	10,972.89	21,235.00	12,719.87	37.50	129.80	176.818	-548.18	-281.43	1,749.80	1,654.79	95.01	18.416	
11,100.00	11,072.60	21,235.00	12,719.87	37.87	129.80	176.818	-548.18	-281.43	1,650.73	1,555.39	95.34	17.314	
11,200.00	11,172.31	21,235.00	12,719.87	38.24	129.80	176.818	-548.18	-281.43	1,551.78	1,456.11	95.67	16.219	
11,300.00	11,272.02	21,235.00	12,719.87	38.62	129.80	176.818	-548.18	-281.43	1,452.98	1,356.97	96.01	15.133	
11,381.30	11,353.08	21,235.00	12,719.87	38.92	129.80	176.818	-548.18	-281.43	1,372.78	1,276.49	96.29	14.257	
11,400.00	11,371.73	21,235.00	12,719.87	38.98	129.80	176.693	-548.18	-281.43	1,354.34	1,257.99	96.35	14.056	
11,500.00	11,471.59	21,235.00	12,719.87	39.34	129.80	175.855	-548.18	-281.43	1,255.52	1,158.82	96.70	12.984	
11,599.47	11,571.04	21,235.00	12,719.87	39.49	129.80	20.575	-548.18	-281.43	1,156.89	1,059.86	97.03	11.923	
11,600.00	11,571.57	21,235.00	12,719.87	39.49	129.80	20.575	-548.18	-281.43	1,156.37	1,059.33	97.03	11.917	
11,700.00	11,671.57	21,235.00	12,719.87	39.52	129.80	20.575	-548.18	-281.43	1,057.13	959.76	97.37	10.857	
11,800.00	11,771.57	21,235.00	12,719.87	39.52	129.80	20.575	-548.18	-281.43	958.05	860.36	97.70	9.807	
11,900.00	11,871.57	21,235.00	12,719.87	39.53	129.80	20.575	-548.18	-281.43	859.19	761.17	98.02	8.765	
12,000.00	11,971.57	21,235.00	12,719.87	39.54	129.80	20.575	-548.18	-281.43	760.62	662.27	98.35	7.734	
12,099.47	12,071.04	21,235.00	12,719.87	39.54	129.80	20.575	-548.18	-281.43	663.00	564.34	98.66	6.720	
12,100.00	12,071.57	21,235.00	12,719.87	39.55	129.80	-158.961	-548.18	-281.43	662.48	563.82	98.67	6.714	
12,150.00	12,121.50	21,235.00	12,719.87	39.65	129.80	-164.856	-548.18	-281.43	614.17	515.36	98.80	6.216	
12,200.00	12,171.05	21,235.00	12,719.87	39.91	129.80	-167.922	-548.18	-281.43	567.54	468.64	98.90	5.738	
12,250.00	12,219.84	21,235.00	12,719.87	40.20	129.80	-169.745	-548.18	-281.43	523.45	424.52	98.93	5.291	
12,300.00	12,267.50	21,235.00	12,719.87	40.50	129.80	-170.910	-548.18	-281.43	482.98	384.13	98.85	4.886	
12,350.00	12,313.66	21,235.00	12,719.87	40.80	129.80	-171.679	-548.18	-281.43	447.45	348.86	98.59	4.539	
12,400.00	12,357.98	21,235.00	12,719.87	41.09	129.80	-172.182	-548.18	-281.43	418.43	320.36	98.07	4.267	
12,450.00	12,400.11	21,235.00	12,719.87	41.38	129.80	-172.490	-548.18	-281.43	397.58	300.39	97.20	4.090	
12,500.00	12,439.74	21,235.00	12,719.87	41.66	129.80	-172.639	-548.18	-281.43	386.41	290.45	95.96	4.027 SF	
12,527.68	12,460.49	21,235.00	12,719.87	41.80	129.80	-172.661	-548.18	-281.43	384.75	289.61	95.14	4.044 CC, ES	
12,550.00	12,476.56	21,235.00	12,719.87	41.92	129.80	-172.647	-548.18	-281.43	385.83	291.38	94.45	4.085	
12,600.00	12,510.29	21,235.00	12,719.87	42.16	129.80	-172.513	-548.18	-281.43	395.90	302.96	92.93	4.260	
12,650.00	12,540.68	21,235.00	12,719.87	42.39	129.80	-172.224	-548.18	-281.43	415.77	324.11	91.66	4.536	
12,700.00	12,567.50	21,235.00	12,719.87	42.58	129.80	-171.744	-548.18	-281.43	443.99	353.24	90.75	4.892	
12,750.00	12,590.54	21,235.00	12,719.87	42.76	129.80	-171.009	-548.18	-281.43	478.90	388.71	90.19	5.310	
12,800.00	12,609.63	21,235.00	12,719.87	42.91	129.80	-169.895	-548.18	-281.43	518.91	429.03	89.88	5.773	
12,850.00	12,624.61	21,235.00	12,719.87	43.03	129.80	-168.162	-548.18	-281.43	562.67	472.95	89.71	6.272	
12,900.00	12,635.39	21,235.00	12,719.87	43.12	129.80	-165.278	-548.18	-281.43	609.07	519.45	89.62	6.796	
12,950.00	12,641.87	21,235.00	12,719.87	43.19	129.80	-159.834	-548.18	-281.43	657.23	567.69	89.55	7.340	
12,999.47	12,644.00	21,235.00	12,719.87	43.23	129.80	-147.063	-548.18	-281.43	705.96	616.48	89.47	7.890	
13,000.00	12,644.00	21,235.00	12,719.87	43.24	129.80	-147.063	-548.18	-281.43	706.48	617.01	89.47	7.896	
13,100.00	12,644.00	21,235.00	12,719.87	43.31	129.80	-147.063	-548.18	-281.43	805.76	716.41	89.35	9.018	
13,200.00	12,644.00	21,235.00	12,719.87	43.39	129.80	-147.063	-548.18	-281.43	905.20	815.92	89.28	10.139	
13,300.00	12,644.00	21,235.00	12,719.87	43.50	129.80	-147.063	-548.18	-281.43	1,004.75	915.51	89.24	11.259	
13,400.00	12,644.00	21,235.00	12,719.87	43.63	129.80	-147.063	-548.18	-281.43	1,104.38	1,015.16	89.22	12.378	
13,500.00	12,644.00	21,235.00	12,719.87	43.78	129.80	-147.063	-548.18	-281.43	1,204.07	1,114.86	89.22	13.496	
13,600.00	12,644.00	21,235.00	12,719.87	43.96	129.80	-147.063	-548.18	-281.43	1,303.81	1,214.59	89.22	14.613	
13,700.00	12,644.00	21,235.00	12,719.87	44.18	129.80	-147.063	-548.18	-281.43	1,403.59	1,314.36	89.23	15.730	
13,800.00	12,644.00	21,235.00	12,719.87	44.44	129.80	-147.063	-548.18	-281.43	1,503.39	1,414.15	89.25	16.845	
13,900.00	12,644.00	21,235.00	12,719.87	44.74	129.80	-147.063	-548.18	-281.43	1,603.22	1,513.96	89.27	17.960	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 433H - OH / 68696 - Surveys (H&P 656)													Offset Site Error: 0.00 usft
Survey Program: 188-MWD+HDGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance			Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		
14,000.00	12,644.00	21,235.00	12,719.87	45.11	129.80	-147.063	-548.18	-281.43	1,703.07	1,613.78	89.29	19.073	
14,100.00	12,644.00	21,235.00	12,719.87	45.54	129.80	-147.063	-548.18	-281.43	1,802.94	1,713.62	89.32	20.185	
14,200.00	12,644.00	21,235.00	12,719.87	46.05	129.80	-147.063	-548.18	-281.43	1,902.82	1,813.47	89.35	21.296	
14,300.00	12,644.00	21,235.00	12,719.87	46.65	129.80	-147.063	-548.18	-281.43	2,002.72	1,913.33	89.38	22.407	
14,400.00	12,644.00	21,235.00	12,719.87	47.33	129.80	-147.063	-548.18	-281.43	2,102.62	2,013.20	89.41	23.516	
14,500.00	12,644.00	21,235.00	12,719.87	48.09	129.80	-147.063	-548.18	-281.43	2,202.53	2,113.08	89.45	24.623	
14,600.00	12,644.00	21,235.00	12,719.87	48.94	129.80	-147.063	-548.18	-281.43	2,302.45	2,212.96	89.49	25.730	
14,700.00	12,644.00	21,235.00	12,719.87	49.86	129.80	-147.063	-548.18	-281.43	2,402.38	2,312.85	89.52	26.835	
14,800.00	12,644.00	21,235.00	12,719.87	50.85	129.80	-147.063	-548.18	-281.43	2,502.31	2,412.74	89.56	27.939	
14,900.00	12,644.00	21,235.00	12,719.87	51.89	129.80	-147.063	-548.18	-281.43	2,602.24	2,512.64	89.60	29.042	
15,000.00	12,644.00	21,235.00	12,719.87	52.99	129.80	-147.063	-548.18	-281.43	2,702.19	2,612.54	89.65	30.143	
15,100.00	12,644.00	21,235.00	12,719.87	54.12	129.80	-147.063	-548.18	-281.43	2,802.13	2,712.44	89.69	31.243	
15,200.00	12,644.00	21,235.00	12,719.87	55.29	129.80	-147.063	-548.18	-281.43	2,902.08	2,812.35	89.73	32.341	
15,300.00	12,644.00	21,235.00	12,719.87	56.49	129.80	-147.063	-548.18	-281.43	3,002.04	2,912.26	89.78	33.438	
15,400.00	12,644.00	21,235.00	12,719.87	57.72	129.80	-147.063	-548.18	-281.43	3,101.99	3,012.17	89.83	34.533	
15,500.00	12,644.00	21,235.00	12,719.87	58.96	129.80	-147.063	-548.18	-281.43	3,201.95	3,112.08	89.87	35.627	
15,600.00	12,644.00	21,235.00	12,719.87	60.22	129.80	-147.063	-548.18	-281.43	3,301.91	3,211.99	89.92	36.719	
15,700.00	12,644.00	21,235.00	12,719.87	61.50	129.80	-147.063	-548.18	-281.43	3,401.88	3,311.90	89.97	37.810	
15,800.00	12,644.00	21,235.00	12,719.87	62.79	129.80	-147.063	-548.18	-281.43	3,501.84	3,411.82	90.02	38.899	
15,900.00	12,644.00	21,235.00	12,719.87	64.09	129.80	-147.063	-548.18	-281.43	3,601.81	3,511.73	90.08	39.986	
16,000.00	12,644.00	21,235.00	12,719.87	65.40	129.80	-147.063	-548.18	-281.43	3,701.78	3,611.65	90.13	41.071	
16,100.00	12,644.00	21,235.00	12,719.87	66.72	129.80	-147.063	-548.18	-281.43	3,801.75	3,711.56	90.19	42.155	
16,200.00	12,644.00	21,235.00	12,719.87	68.04	129.80	-147.063	-548.18	-281.43	3,901.72	3,811.48	90.24	43.236	
16,300.00	12,644.00	21,235.00	12,719.87	69.38	129.80	-147.063	-548.18	-281.43	4,001.70	3,911.40	90.30	44.316	
16,400.00	12,644.00	21,235.00	12,719.87	70.72	129.80	-147.063	-548.18	-281.43	4,101.67	4,011.31	90.36	45.394	
16,500.00	12,644.00	21,235.00	12,719.87	72.07	129.80	-147.063	-548.18	-281.43	4,201.65	4,111.23	90.42	46.470	
16,600.00	12,644.00	21,235.00	12,719.87	73.42	129.80	-147.063	-548.18	-281.43	4,301.62	4,211.15	90.48	47.544	
16,700.00	12,644.00	21,235.00	12,719.87	74.77	129.80	-147.063	-548.18	-281.43	4,401.60	4,311.06	90.54	48.616	
16,800.00	12,644.00	21,235.00	12,719.87	76.13	129.80	-147.063	-548.18	-281.43	4,501.58	4,410.98	90.60	49.686	
16,900.00	12,644.00	21,235.00	12,719.87	77.49	129.80	-147.063	-548.18	-281.43	4,601.56	4,510.90	90.66	50.754	
17,000.00	12,644.00	21,235.00	12,719.87	78.86	129.80	-147.063	-548.18	-281.43	4,701.54	4,610.81	90.73	51.820	
17,100.00	12,644.00	21,235.00	12,719.87	80.23	129.80	-147.063	-548.18	-281.43	4,801.53	4,710.73	90.79	52.884	
17,200.00	12,644.00	21,235.00	12,719.87	81.60	129.80	-147.063	-548.18	-281.43	4,901.51	4,810.65	90.86	53.945	
17,300.00	12,644.00	21,235.00	12,719.87	82.98	129.80	-147.063	-548.18	-281.43	5,001.49	4,910.56	90.93	55.005	
17,400.00	12,644.00	21,235.00	12,719.87	84.36	129.80	-147.063	-548.18	-281.43	5,101.48	5,010.48	91.00	56.062	
17,500.00	12,644.00	21,235.00	12,719.87	85.74	129.80	-147.063	-548.18	-281.43	5,201.46	5,110.39	91.07	57.117	
17,600.00	12,644.00	21,235.00	12,719.87	87.12	129.80	-147.063	-548.18	-281.43	5,301.44	5,210.31	91.14	58.170	
17,700.00	12,644.00	21,235.00	12,719.87	88.51	129.80	-147.063	-548.18	-281.43	5,401.43	5,310.22	91.21	59.220	
17,800.00	12,644.00	21,235.00	12,719.87	89.89	129.80	-147.063	-548.18	-281.43	5,501.42	5,410.13	91.28	60.268	
17,900.00	12,644.00	21,235.00	12,719.87	91.28	129.80	-147.063	-548.18	-281.43	5,601.40	5,510.05	91.36	61.314	
18,000.00	12,644.00	21,235.00	12,719.87	92.67	129.80	-147.063	-548.18	-281.43	5,701.39	5,609.96	91.43	62.357	
18,100.00	12,644.00	21,235.00	12,719.87	94.07	129.80	-147.063	-548.18	-281.43	5,801.38	5,709.87	91.51	63.398	
18,200.00	12,644.00	21,235.00	12,719.87	95.46	129.80	-147.063	-548.18	-281.43	5,901.37	5,809.78	91.58	64.437	
18,300.00	12,644.00	21,235.00	12,719.87	96.85	129.80	-147.063	-548.18	-281.43	6,001.35	5,909.69	91.66	65.473	
18,400.00	12,644.00	21,235.00	12,719.87	98.25	129.80	-147.063	-548.18	-281.43	6,101.34	6,009.60	91.74	66.506	
18,500.00	12,644.00	21,235.00	12,719.87	99.65	129.80	-147.063	-548.18	-281.43	6,201.33	6,109.51	91.82	67.538	
18,600.00	12,644.00	21,235.00	12,719.87	101.05	129.80	-147.063	-548.18	-281.43	6,301.32	6,209.42	91.90	68.566	
18,700.00	12,644.00	21,235.00	12,719.87	102.45	129.80	-147.063	-548.18	-281.43	6,401.31	6,309.33	91.98	69.592	
18,800.00	12,644.00	21,235.00	12,719.87	103.85	129.80	-147.063	-548.18	-281.43	6,501.30	6,409.24	92.07	70.616	
18,900.00	12,644.00	21,235.00	12,719.87	105.25	129.80	-147.063	-548.18	-281.43	6,601.29	6,509.14	92.15	71.637	
19,000.00	12,644.00	21,235.00	12,719.87	106.65	129.80	-147.063	-548.18	-281.43	6,701.28	6,609.05	92.23	72.655	
19,100.00	12,644.00	21,235.00	12,719.87	108.06	129.80	-147.063	-548.18	-281.43	6,801.27	6,708.95	92.32	73.671	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 433H - OH / 68696 - Surveys (H&P 656)													Offset Site Error: 0.00 usft	
Survey Program:		188-MWD+HDGM		Semi Major Axis			Offset Wellbore Centre		Rule Assigned:				Offset Well Error: 1.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,200.00	12,644.00	21,235.00	12,719.87	109.46	129.80	-147.063	-548.18	-281.43	6,901.27	6,808.86	92.41	74.684		
19,300.00	12,644.00	21,235.00	12,719.87	110.87	129.80	-147.063	-548.18	-281.43	7,001.26	6,908.76	92.49	75.694		
19,400.00	12,644.00	21,235.00	12,719.87	112.28	129.80	-147.063	-548.18	-281.43	7,101.25	7,008.67	92.58	76.701		
19,500.00	12,644.00	21,235.00	12,719.87	113.68	129.80	-147.063	-548.18	-281.43	7,201.24	7,108.57	92.67	77.706		
19,600.00	12,644.00	21,235.00	12,719.87	115.09	129.80	-147.063	-548.18	-281.43	7,301.23	7,208.47	92.76	78.709		
19,700.00	12,644.00	21,235.00	12,719.87	116.50	129.80	-147.063	-548.18	-281.43	7,401.23	7,308.37	92.85	79.708		
19,800.00	12,644.00	21,235.00	12,719.87	117.91	129.80	-147.063	-548.18	-281.43	7,501.22	7,408.27	92.95	80.705		
19,900.00	12,644.00	21,235.00	12,719.87	119.32	129.80	-147.063	-548.18	-281.43	7,601.21	7,508.17	93.04	81.699		
20,000.00	12,644.00	21,235.00	12,719.87	120.73	129.80	-147.063	-548.18	-281.43	7,701.20	7,608.07	93.13	82.690		
20,100.00	12,644.00	21,235.00	12,719.87	122.15	129.80	-147.063	-548.18	-281.43	7,801.20	7,707.97	93.23	83.678		
20,200.00	12,644.00	21,235.00	12,719.87	123.56	129.80	-147.063	-548.18	-281.43	7,901.19	7,807.87	93.32	84.664		
20,300.00	12,644.00	21,235.00	12,719.87	124.97	129.80	-147.063	-548.18	-281.43	8,001.18	7,907.76	93.42	85.646		
20,400.00	12,644.00	21,235.00	12,719.87	126.38	129.80	-147.063	-548.18	-281.43	8,101.18	8,007.66	93.52	86.626		
20,500.00	12,644.00	21,235.00	12,719.87	127.80	129.80	-147.063	-548.18	-281.43	8,201.17	8,107.56	93.62	87.603		
20,600.00	12,644.00	21,235.00	12,719.87	129.21	129.80	-147.063	-548.18	-281.43	8,301.17	8,207.45	93.72	88.577		
20,700.00	12,644.00	21,235.00	12,719.87	130.63	129.80	-147.063	-548.18	-281.43	8,401.16	8,307.34	93.82	89.548		
20,800.00	12,644.00	21,235.00	12,719.87	132.04	129.80	-147.063	-548.18	-281.43	8,501.15	8,407.24	93.92	90.517		
20,900.00	12,644.00	21,235.00	12,719.87	133.46	129.80	-147.063	-548.18	-281.43	8,601.15	8,507.13	94.02	91.482		
21,000.00	12,644.00	21,235.00	12,719.87	134.88	129.80	-147.063	-548.18	-281.43	8,701.14	8,607.02	94.12	92.444		
21,100.00	12,644.00	21,235.00	12,719.87	136.29	129.80	-147.063	-548.18	-281.43	8,801.14	8,706.91	94.23	93.404		
21,200.00	12,644.00	21,235.00	12,719.87	137.71	129.80	-147.063	-548.18	-281.43	8,901.13	8,806.80	94.33	94.360		
21,300.00	12,644.00	21,235.00	12,719.87	139.13	129.80	-147.063	-548.18	-281.43	9,001.13	8,906.69	94.44	95.314		
21,400.00	12,644.00	21,235.00	12,719.87	140.54	129.80	-147.063	-548.18	-281.43	9,101.12	9,006.58	94.54	96.265		
21,500.00	12,644.00	21,235.00	12,719.87	141.96	129.80	-147.063	-548.18	-281.43	9,201.12	9,106.47	94.65	97.212		
21,600.00	12,644.00	21,235.00	12,719.87	143.38	129.80	-147.063	-548.18	-281.43	9,301.11	9,206.36	94.76	98.157		
21,700.00	12,644.00	21,235.00	12,719.87	144.80	129.80	-147.063	-548.18	-281.43	9,401.11	9,306.24	94.87	99.098		
21,800.00	12,644.00	21,235.00	12,719.87	146.22	129.80	-147.063	-548.18	-281.43	9,501.10	9,406.13	94.98	100.037		
21,900.00	12,644.00	21,235.00	12,719.87	147.64	129.80	-147.063	-548.18	-281.43	9,601.10	9,506.01	95.09	100.973		
22,000.00	12,644.00	21,235.00	12,719.87	149.06	129.80	-147.063	-548.18	-281.43	9,701.10	9,605.90	95.20	101.905		
22,100.00	12,644.00	21,235.00	12,719.87	150.48	129.80	-147.063	-548.18	-281.43	9,801.09	9,705.78	95.31	102.835		
22,199.47	12,644.00	21,235.00	12,719.87	151.89	129.80	-147.063	-548.18	-281.43	9,900.56	9,805.14	95.42	103.756		



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 512H - OH / 68637 - Surveys (H&P 625)													Offset Site Error: 0.00 usft
Survey Program: 124-MWD+HDCM													Offset Well Error: 1.00 usft
Rule Assigned:													Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	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	63.09	9.09	1.00	1.00	-9.795	7,890.07	-1,362.18	8,006.80				
100.00	100.00	247.91	193.90	1.08	1.18	-9.802	7,888.88	-1,362.99	8,006.31	8,004.05	2.26	3,542.830	
200.00	200.00	380.86	326.84	1.60	1.48	-9.805	7,886.95	-1,363.06	8,004.87	8,001.79	3.08	2,599.327	
300.00	300.00	499.07	445.03	2.01	1.82	-9.808	7,884.90	-1,363.15	8,003.17	7,999.35	3.82	2,092.751	
400.00	400.00	585.96	531.91	2.35	2.08	-9.811	7,883.38	-1,363.22	8,001.47	7,997.04	4.43	1,804.540	
500.00	500.00	682.58	628.51	2.65	2.39	-9.813	7,881.82	-1,363.24	7,999.87	7,994.83	5.04	1,585.760	
600.00	600.00	814.78	760.69	2.93	2.83	-9.815	7,879.41	-1,363.15	7,998.07	7,992.31	5.75	1,389.864	
700.00	700.00	913.96	859.85	3.18	3.17	-9.816	7,877.38	-1,362.94	7,996.02	7,989.68	6.34	1,261.138	
800.00	800.00	1,003.35	949.23	3.41	3.47	-9.815	7,875.70	-1,362.52	7,994.08	7,987.20	6.88	1,161.929	
900.00	900.00	1,098.39	1,044.25	3.64	3.80	-9.813	7,874.03	-1,361.98	7,992.25	7,984.83	7.43	1,075.921	
1,000.00	1,000.00	1,216.91	1,162.75	3.85	4.21	-9.813	7,871.88	-1,361.55	7,990.42	7,982.37	8.05	992.660	
1,100.00	1,100.00	1,271.00	1,216.83	4.05	4.40	-9.813	7,870.73	-1,361.34	7,988.45	7,980.01	8.44	946.545	
1,200.00	1,200.00	1,271.00	1,216.83	4.24	4.40	-9.813	7,870.73	-1,361.34	7,987.61	7,978.98	8.63	925.236	
1,289.31	1,289.31	1,343.50	1,289.31	4.41	4.65	-9.810	7,870.00	-1,360.74	7,986.77	7,977.73	9.04	883.355	
1,300.00	1,300.00	1,346.55	1,292.37	4.43	4.66	-9.809	7,870.01	-1,360.70	7,986.78	7,977.71	9.07	880.424	
1,400.00	1,400.00	1,375.12	1,320.93	4.61	4.75	-9.806	7,870.24	-1,360.29	7,987.32	7,977.97	9.35	854.567	
1,500.00	1,500.00	1,456.00	1,401.76	4.78	5.02	-9.792	7,872.38	-1,358.61	7,989.36	7,979.57	9.79	815.915	
1,600.00	1,599.98	1,456.00	1,401.76	4.98	5.02	144.189	7,872.38	-1,358.61	7,992.63	7,982.68	9.95	803.262	
1,700.00	1,699.84	1,469.80	1,415.55	5.60	5.07	144.110	7,872.93	-1,358.26	7,999.96	7,989.50	10.45	765.332	
1,718.18	1,717.96	1,485.25	1,430.98	5.62	5.12	144.098	7,873.56	-1,357.88	8,001.68	7,991.17	10.51	761.079	
1,800.00	1,799.55	1,554.75	1,500.40	5.72	5.34	144.136	7,876.43	-1,356.19	8,009.72	7,998.89	10.83	739.458	
1,900.00	1,899.26	1,644.00	1,589.55	5.89	5.63	144.183	7,880.24	-1,354.15	8,019.71	8,008.43	11.28	710.922	
2,000.00	1,998.97	1,755.31	1,700.73	6.09	6.00	144.241	7,884.95	-1,351.82	8,029.70	8,017.88	11.83	678.879	
2,100.00	2,098.68	1,833.00	1,778.35	6.30	6.26	144.280	7,888.07	-1,350.34	8,039.56	8,027.29	12.27	655.056	
2,200.00	2,198.39	1,905.66	1,850.93	6.53	6.51	144.315	7,891.17	-1,349.17	8,049.74	8,037.02	12.71	633.129	
2,300.00	2,298.10	1,959.90	1,905.10	6.77	6.69	144.340	7,893.81	-1,348.50	8,060.51	8,047.41	13.10	615.252	
2,400.00	2,397.81	2,021.00	1,966.11	7.02	6.90	144.367	7,897.11	-1,347.96	8,071.85	8,058.33	13.52	597.037	
2,500.00	2,497.52	2,093.34	2,038.33	7.28	7.14	144.399	7,901.31	-1,347.37	8,083.59	8,069.61	13.99	577.913	
2,600.00	2,597.23	2,176.19	2,121.02	7.55	7.43	144.437	7,906.31	-1,346.50	8,095.55	8,081.06	14.50	558.372	
2,700.00	2,696.94	2,281.46	2,226.08	7.83	7.79	144.488	7,912.82	-1,345.11	8,107.64	8,092.54	15.10	537.012	
2,800.00	2,796.65	2,402.26	2,346.65	8.12	8.21	144.548	7,920.09	-1,343.18	8,119.50	8,103.74	15.76	515.200	
2,900.00	2,896.36	2,502.69	2,446.88	8.42	8.56	144.599	7,926.02	-1,341.32	8,131.23	8,114.87	16.36	497.084	
3,000.00	2,996.07	2,602.60	2,546.59	8.72	8.91	144.651	7,931.93	-1,339.30	8,142.94	8,125.98	16.96	480.142	
3,100.00	3,095.78	2,696.90	2,640.71	9.03	9.24	144.699	7,937.51	-1,337.52	8,154.69	8,137.14	17.55	464.741	
3,200.00	3,195.49	2,804.16	2,747.78	9.34	9.62	144.751	7,943.85	-1,335.86	8,166.49	8,148.30	18.19	449.064	
3,300.00	3,295.20	2,973.89	2,917.24	9.66	10.22	144.831	7,952.93	-1,333.37	8,177.75	8,158.69	19.06	429.139	
3,400.00	3,394.91	3,051.62	2,994.87	9.98	10.50	144.866	7,956.86	-1,332.38	8,188.75	8,169.15	19.60	417.858	
3,500.00	3,494.62	3,134.43	3,077.56	10.30	10.79	144.902	7,961.16	-1,331.61	8,199.95	8,179.79	20.16	406.760	
3,600.00	3,594.33	3,278.90	3,221.85	10.63	11.30	144.962	7,968.45	-1,330.45	8,211.07	8,190.12	20.95	391.932	
3,700.00	3,694.04	3,417.65	3,360.44	10.96	11.80	145.024	7,974.71	-1,328.68	8,221.54	8,199.81	21.72	378.442	
3,800.00	3,793.75	3,542.24	3,484.87	11.29	12.24	145.088	7,980.09	-1,325.70	8,231.68	8,209.23	22.45	366.645	
3,900.00	3,893.47	3,586.66	3,529.24	11.63	12.40	145.110	7,982.11	-1,324.79	8,242.05	8,219.16	22.89	360.141	
4,000.00	3,993.18	3,638.25	3,580.77	11.97	12.58	145.132	7,984.65	-1,324.24	8,252.99	8,229.64	23.35	353.489	
4,100.00	4,092.89	3,718.00	3,660.40	12.31	12.86	145.159	7,989.00	-1,324.51	8,264.60	8,240.69	23.91	345.599	
4,200.00	4,192.60	3,758.96	3,701.28	12.65	13.01	145.171	7,991.39	-1,324.93	8,276.56	8,252.22	24.34	340.069	
4,300.00	4,292.31	3,849.13	3,791.29	13.00	13.33	145.201	7,996.78	-1,325.42	8,288.78	8,263.84	24.95	332.273	
4,400.00	4,392.02	3,944.49	3,886.47	13.34	13.67	145.237	8,002.66	-1,325.30	8,301.11	8,275.53	25.58	324.573	
4,500.00	4,491.73	4,049.34	3,991.12	13.69	14.05	145.277	8,009.13	-1,325.02	8,313.40	8,287.16	26.24	316.783	
4,600.00	4,591.44	4,184.78	4,126.31	14.04	14.54	145.329	8,017.22	-1,324.57	8,325.53	8,298.50	27.03	308.037	
4,700.00	4,691.15	4,437.66	4,378.87	14.39	15.44	145.430	8,029.78	-1,322.67	8,336.80	8,308.55	28.25	295.089	
4,800.00	4,790.86	20,925.59	13,019.30	14.74	123.37	102.980	-13.24	-1,331.66	8,321.70	8,244.06	77.64	107.178	
4,900.00	4,890.57	20,956.00	13,020.04	15.10	123.77	101.839	-43.64	-1,332.43	8,222.92	8,144.84	78.08	105.316	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 512H - OH / 68637 - Surveys (H&P 625)												Offset Site Error:	0.00 usft
Survey Program: 124-MWD+HDGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Offset												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,990.28	20,956.00	13,020.04	15.45	123.77	101.839	-43.64	-1,332.43	8,124.01	8,045.74	78.27	103.796	
5,100.00	5,089.99	20,956.00	13,020.04	15.81	123.77	101.839	-43.64	-1,332.43	8,025.13	7,946.67	78.46	102.278	
5,200.00	5,189.70	20,956.00	13,020.04	16.16	123.77	101.839	-43.64	-1,332.43	7,926.28	7,847.61	78.66	100.764	
5,300.00	5,289.41	20,956.00	13,020.04	16.52	123.77	101.839	-43.64	-1,332.43	7,827.45	7,748.59	78.86	99.254	
5,400.00	5,389.12	20,956.00	13,020.04	16.88	123.77	101.839	-43.64	-1,332.43	7,728.66	7,649.59	79.07	97.747	
5,500.00	5,488.83	20,956.00	13,020.04	17.24	123.77	101.839	-43.64	-1,332.43	7,629.89	7,550.62	79.28	96.245	
5,600.00	5,588.54	20,956.00	13,020.04	17.59	123.77	101.839	-43.64	-1,332.43	7,531.16	7,451.68	79.49	94.746	
5,700.00	5,688.25	20,956.00	13,020.04	17.95	123.77	101.839	-43.64	-1,332.43	7,432.47	7,352.76	79.70	93.251	
5,800.00	5,787.96	20,956.00	13,020.04	18.32	123.77	101.839	-43.64	-1,332.43	7,333.81	7,253.88	79.92	91.760	
5,900.00	5,887.67	20,956.00	13,020.04	18.68	123.77	101.839	-43.64	-1,332.43	7,235.18	7,155.04	80.15	90.274	
6,000.00	5,987.38	20,956.00	13,020.04	19.04	123.77	101.839	-43.64	-1,332.43	7,136.60	7,056.22	80.37	88.792	
6,100.00	6,087.09	20,980.77	13,020.77	19.40	124.10	100.886	-68.39	-1,332.98	7,037.98	6,957.17	80.81	87.090	
6,200.00	6,186.80	20,986.75	13,020.96	19.76	124.18	100.653	-74.36	-1,333.12	6,939.44	6,858.34	81.10	85.567	
6,300.00	6,286.51	20,992.80	13,021.15	20.13	124.26	100.416	-80.41	-1,333.25	6,840.92	6,759.53	81.39	84.051	
6,400.00	6,386.22	20,998.93	13,021.34	20.49	124.34	100.174	-86.53	-1,333.38	6,742.45	6,660.76	81.69	82.541	
6,500.00	6,485.93	21,005.13	13,021.55	20.86	124.42	99.928	-92.73	-1,333.51	6,644.01	6,562.02	81.99	81.036	
6,600.00	6,585.64	21,011.41	13,021.76	21.22	124.51	99.677	-99.00	-1,333.65	6,545.60	6,463.31	82.29	79.538	
6,700.00	6,685.35	21,017.77	13,021.97	21.59	124.59	99.422	-105.36	-1,333.78	6,447.24	6,364.63	82.61	78.047	
6,800.00	6,785.06	21,086.90	13,024.06	21.95	125.51	96.542	-174.44	-1,335.29	6,348.91	6,265.44	83.46	76.069	
6,900.00	6,884.77	21,202.83	13,026.00	22.32	127.05	91.272	-290.32	-1,338.21	6,250.58	6,165.85	84.73	73.771	
7,000.00	6,984.48	21,217.74	13,026.09	22.68	127.25	90.555	-305.22	-1,338.62	6,152.09	6,066.95	85.14	72.260	
7,100.00	7,084.19	21,232.16	13,026.15	23.05	127.44	89.853	-319.63	-1,339.03	6,053.63	5,968.08	85.55	70.763	
7,200.00	7,183.90	21,255.39	13,026.21	23.42	127.75	88.705	-342.85	-1,339.69	5,955.20	5,869.16	86.04	69.213	
7,300.00	7,283.61	21,284.65	13,026.19	23.78	128.14	87.230	-372.10	-1,340.52	5,856.79	5,770.19	86.60	67.634	
7,400.00	7,383.32	21,310.88	13,026.08	24.15	128.49	85.882	-398.32	-1,341.26	5,758.40	5,671.27	87.13	66.088	
7,500.00	7,483.03	21,334.53	13,025.89	24.52	128.81	84.646	-421.95	-1,341.93	5,660.04	5,572.39	87.65	64.573	
7,600.00	7,582.74	21,305.61	13,025.99	24.89	128.42	86.155	-393.05	-1,341.11	5,561.66	5,473.94	87.72	63.405	
7,700.00	7,682.45	21,312.25	13,025.97	25.25	128.51	85.810	-399.69	-1,341.30	5,463.44	5,375.34	88.10	62.013	
7,800.00	7,782.16	21,318.90	13,025.95	25.62	128.60	85.465	-406.33	-1,341.49	5,365.27	5,276.78	88.49	60.629	
7,900.00	7,881.87	21,325.54	13,025.93	25.99	128.69	85.118	-412.97	-1,341.68	5,267.17	5,178.27	88.89	59.252	
8,000.00	7,981.58	21,351.97	13,025.76	26.36	129.04	83.722	-439.39	-1,342.41	5,169.07	5,079.59	89.48	57.766	
8,100.00	8,081.29	21,355.91	13,025.74	26.73	129.09	83.512	-443.33	-1,342.51	5,071.07	4,981.20	89.88	56.422	
8,200.00	8,181.00	21,359.92	13,025.71	27.10	129.15	83.298	-447.34	-1,342.62	4,973.15	4,882.87	90.28	55.085	
8,300.00	8,280.71	21,364.00	13,025.69	27.47	129.20	83.079	-451.42	-1,342.72	4,875.31	4,784.62	90.69	53.755	
8,400.00	8,380.42	21,368.16	13,025.68	27.84	129.25	82.856	-455.57	-1,342.82	4,777.55	4,686.43	91.12	52.432	
8,500.00	8,480.13	21,372.39	13,025.66	28.21	129.31	82.629	-459.80	-1,342.93	4,679.88	4,588.33	91.55	51.116	
8,600.00	8,579.84	21,376.69	13,025.65	28.58	129.37	82.397	-464.11	-1,343.03	4,582.31	4,490.31	92.00	49.807	
8,700.00	8,679.55	21,381.08	13,025.64	28.95	129.43	82.160	-468.49	-1,343.14	4,484.83	4,392.37	92.46	48.505	
8,800.00	8,779.26	21,385.55	13,025.63	29.32	129.49	81.918	-472.96	-1,343.24	4,387.46	4,294.53	92.93	47.211	
8,900.00	8,878.97	21,390.10	13,025.62	29.69	129.55	81.671	-477.51	-1,343.35	4,290.21	4,196.79	93.42	45.924	
9,000.00	8,978.68	21,394.73	13,025.62	30.06	129.61	81.419	-482.14	-1,343.45	4,193.08	4,099.15	93.92	44.644	
9,100.00	9,078.39	21,399.46	13,025.62	30.43	129.67	81.161	-486.87	-1,343.56	4,096.07	4,001.63	94.44	43.372	
9,200.00	9,178.10	21,404.28	13,025.62	30.80	129.74	80.898	-491.68	-1,343.66	3,999.21	3,904.24	94.97	42.108	
9,300.00	9,277.81	21,420.00	13,025.66	31.17	129.95	80.034	-507.40	-1,343.98	3,902.52	3,806.88	95.64	40.806	
9,400.00	9,377.52	21,420.00	13,025.66	31.54	129.95	80.034	-507.40	-1,343.98	3,805.95	3,709.79	96.16	39.579	
9,500.00	9,477.23	21,420.00	13,025.66	31.91	129.95	80.034	-507.40	-1,343.98	3,709.56	3,612.86	96.70	38.361	
9,600.00	9,576.94	21,426.25	13,025.68	32.29	130.03	79.688	-513.65	-1,344.11	3,613.37	3,516.04	97.33	37.125	
9,700.00	9,676.65	21,433.49	13,025.70	32.66	130.13	79.287	-520.89	-1,344.25	3,517.37	3,419.38	97.99	35.895	
9,800.00	9,776.36	21,440.72	13,025.73	33.03	130.22	78.885	-528.12	-1,344.40	3,421.59	3,322.91	98.68	34.674	
9,900.00	9,876.07	21,447.96	13,025.75	33.40	130.32	78.481	-535.35	-1,344.54	3,326.04	3,226.64	99.40	33.462	
10,000.00	9,975.78	21,455.19	13,025.77	33.77	130.42	78.076	-542.59	-1,344.69	3,230.74	3,130.59	100.14	32.261	
10,100.00	10,075.49	21,462.43	13,025.80	34.14	130.51	77.669	-549.82	-1,344.83	3,135.72	3,034.79	100.93	31.069	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 512H - OH / 68637 - Surveys (H&P 625)													Offset Site Error: 0.00 usft	
Survey Program:		124-MWD+HDGM					Rule Assigned:				Offset Well Error: 1.00 usft			
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,200.00	10,175.20	21,469.66	13,025.82	34.52	130.61	77.261	-557.05	-1,344.97	3,041.00	2,939.25	101.75	29.888		
10,300.00	10,274.91	21,476.90	13,025.85	34.89	130.71	76.852	-564.29	-1,345.12	2,946.61	2,844.00	102.61	28.717		
10,400.00	10,374.62	21,477.00	13,025.85	35.26	130.71	76.846	-564.39	-1,345.12	2,852.59	2,749.17	103.43	27.581		
10,500.00	10,474.33	21,477.00	13,025.85	35.63	130.71	76.846	-564.39	-1,345.12	2,759.00	2,654.71	104.29	26.455		
10,600.00	10,574.04	21,477.00	13,025.85	36.01	130.71	76.846	-564.39	-1,345.12	2,665.87	2,560.66	105.20	25.340		
10,700.00	10,673.75	21,477.00	13,025.85	36.38	130.71	76.846	-564.39	-1,345.12	2,573.25	2,467.08	106.17	24.236		
10,800.00	10,773.46	21,477.00	13,025.85	36.75	130.71	76.846	-564.39	-1,345.12	2,481.21	2,374.01	107.20	23.145		
10,900.00	10,873.18	21,477.00	13,025.85	37.12	130.71	76.846	-564.39	-1,345.12	2,389.81	2,281.51	108.30	22.066		
11,000.00	10,972.89	21,477.00	13,025.85	37.50	130.71	76.846	-564.39	-1,345.12	2,299.13	2,189.65	109.48	21.001		
11,100.00	11,072.60	21,477.00	13,025.85	37.87	130.71	76.846	-564.39	-1,345.12	2,209.25	2,098.51	110.73	19.951		
11,200.00	11,172.31	21,477.00	13,025.85	38.24	130.71	76.846	-564.39	-1,345.12	2,120.27	2,008.19	112.08	18.917		
11,300.00	11,272.02	21,477.00	13,025.85	38.62	130.71	76.846	-564.39	-1,345.12	2,032.32	1,918.79	113.53	17.901		
11,381.30	11,353.08	21,477.00	13,025.85	38.92	130.71	76.846	-564.39	-1,345.12	1,961.67	1,846.88	114.79	17.089		
11,400.00	11,371.73	21,477.00	13,025.85	38.98	130.71	76.227	-564.39	-1,345.12	1,945.54	1,830.46	115.09	16.905		
11,500.00	11,471.59	21,477.00	13,025.85	39.34	130.71	73.095	-564.39	-1,345.12	1,860.41	1,743.60	116.81	15.926		
11,599.47	11,571.04	21,477.00	13,025.85	39.49	130.71	-83.739	-564.39	-1,345.12	1,777.83	1,659.12	118.71	14.976		
11,600.00	11,571.57	21,477.00	13,025.85	39.49	130.71	-83.739	-564.39	-1,345.12	1,777.39	1,658.67	118.72	14.971		
11,700.00	11,671.57	21,477.00	13,025.85	39.52	130.71	-83.739	-564.39	-1,345.12	1,696.55	1,575.75	120.80	14.044		
11,800.00	11,771.57	21,477.00	13,025.85	39.52	130.71	-83.739	-564.39	-1,345.12	1,617.84	1,494.81	123.04	13.149		
11,900.00	11,871.57	21,477.00	13,025.85	39.53	130.71	-83.739	-564.39	-1,345.12	1,541.61	1,416.17	125.44	12.290		
12,000.00	11,971.57	21,477.00	13,025.85	39.54	130.71	-83.739	-564.39	-1,345.12	1,468.23	1,340.23	128.00	11.470		
12,099.47	12,071.04	21,477.00	13,025.85	39.54	130.71	-83.739	-564.39	-1,345.12	1,398.52	1,267.82	130.70	10.700		
12,100.00	12,071.57	21,477.00	13,025.85	39.55	130.71	96.864	-564.39	-1,345.12	1,398.16	1,267.44	130.72	10.696		
12,150.00	12,121.50	21,477.00	13,025.85	39.65	130.71	101.295	-564.39	-1,345.12	1,364.77	1,232.67	132.10	10.332		
12,200.00	12,171.05	21,477.00	13,025.85	39.91	130.71	105.284	-564.39	-1,345.12	1,333.08	1,199.64	133.44	9.990		
12,250.00	12,219.84	21,477.00	13,025.85	40.20	130.71	108.800	-564.39	-1,345.12	1,303.46	1,168.75	134.71	9.676		
12,300.00	12,267.50	21,477.00	13,025.85	40.50	130.71	111.835	-564.39	-1,345.12	1,276.29	1,140.42	135.88	9.393		
12,350.00	12,313.66	21,477.00	13,025.85	40.80	130.71	114.400	-564.39	-1,345.12	1,251.96	1,115.03	136.92	9.144		
12,400.00	12,357.98	21,477.00	13,025.85	41.09	130.71	116.509	-564.39	-1,345.12	1,230.80	1,092.99	137.81	8.931		
12,450.00	12,400.11	21,477.00	13,025.85	41.38	130.71	118.185	-564.39	-1,345.12	1,213.16	1,074.63	138.53	8.758		
12,500.00	12,439.74	21,477.00	13,025.85	41.66	130.71	119.448	-564.39	-1,345.12	1,199.33	1,060.28	139.05	8.625		
12,550.00	12,476.56	21,477.00	13,025.85	41.92	130.71	120.314	-564.39	-1,345.12	1,189.54	1,050.18	139.36	8.536		
12,600.00	12,510.29	21,477.00	13,025.85	42.16	130.71	120.797	-564.39	-1,345.12	1,183.97	1,044.51	139.46	8.489		
12,639.27	12,534.46	21,477.00	13,025.85	42.34	130.71	120.912	-564.39	-1,345.12	1,182.63	1,043.23	139.40	8.484 CC, ES, SF		
12,650.00	12,540.68	21,477.00	13,025.85	42.39	130.71	120.903	-564.39	-1,345.12	1,182.73	1,043.37	139.36	8.487		
12,700.00	12,567.50	21,477.00	13,025.85	42.58	130.71	120.636	-564.39	-1,345.12	1,185.84	1,046.77	139.06	8.527		
12,750.00	12,590.54	21,477.00	13,025.85	42.76	130.71	119.990	-564.39	-1,345.12	1,193.23	1,054.64	138.59	8.610		
12,800.00	12,609.63	21,477.00	13,025.85	42.91	130.71	118.956	-564.39	-1,345.12	1,204.78	1,066.83	137.95	8.734		
12,850.00	12,624.61	21,477.00	13,025.85	43.03	130.71	117.518	-564.39	-1,345.12	1,220.28	1,083.11	137.16	8.896		
12,900.00	12,635.39	21,477.00	13,025.85	43.12	130.71	115.659	-564.39	-1,345.12	1,239.47	1,103.21	136.26	9.096		
12,950.00	12,641.87	21,477.00	13,025.85	43.19	130.71	113.356	-564.39	-1,345.12	1,262.03	1,126.78	135.25	9.331		
12,999.47	12,644.00	21,477.00	13,025.85	43.23	130.71	110.623	-564.39	-1,345.12	1,287.34	1,153.17	134.17	9.595		
13,000.00	12,644.00	21,477.00	13,025.85	43.24	130.71	110.623	-564.39	-1,345.12	1,287.62	1,153.47	134.16	9.598		
13,100.00	12,644.00	21,477.00	13,025.85	43.31	130.71	110.623	-564.39	-1,345.12	1,344.22	1,212.31	131.91	10.190		
13,200.00	12,644.00	21,477.00	13,025.85	43.39	130.71	110.623	-564.39	-1,345.12	1,405.66	1,275.96	129.69	10.838		
13,300.00	12,644.00	21,477.00	13,025.85	43.50	130.71	110.623	-564.39	-1,345.12	1,471.33	1,343.79	127.54	11.536		
13,400.00	12,644.00	21,477.00	13,025.85	43.63	130.71	110.623	-564.39	-1,345.12	1,540.70	1,415.24	125.47	12.280		
13,500.00	12,644.00	21,477.00	13,025.85	43.78	130.71	110.623	-564.39	-1,345.12	1,613.29	1,489.80	123.50	13.064		
13,600.00	12,644.00	21,477.00	13,025.85	43.96	130.71	110.623	-564.39	-1,345.12	1,688.69	1,567.05	121.63	13.883		
13,700.00	12,644.00	21,477.00	13,025.85	44.18	130.71	110.623	-564.39	-1,345.12	1,766.53	1,646.64	119.89	14.735		
13,800.00	12,644.00	21,477.00	13,025.85	44.44	130.71	110.623	-564.39	-1,345.12	1,846.50	1,728.25	118.25	15.615		
13,900.00	12,644.00	21,477.00	13,025.85	44.74	130.71	110.623	-564.39	-1,345.12	1,928.34	1,811.61	116.74	16.519		

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 512H - OH / 68637 - Surveys (H&P 625)													Offset Site Error:	0.00 usft
Survey Program:		124-MWD+HDGM					Rule Assigned:				Offset Well Error:	1.00 usft		
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance				Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,000.00	12,644.00	21,477.00	13,025.85	45.11	130.71	110.623	-564.39	-1,345.12	2,011.83	1,896.50	115.33	17.444		
14,100.00	12,644.00	21,477.00	13,025.85	45.54	130.71	110.623	-564.39	-1,345.12	2,096.76	1,982.73	114.03	18.388		
14,200.00	12,644.00	21,477.00	13,025.85	46.05	130.71	110.623	-564.39	-1,345.12	2,182.97	2,070.14	112.83	19.348		
14,300.00	12,644.00	21,477.00	13,025.85	46.65	130.71	110.623	-564.39	-1,345.12	2,270.31	2,158.59	111.72	20.321		
14,400.00	12,644.00	21,477.00	13,025.85	47.33	130.71	110.623	-564.39	-1,345.12	2,358.65	2,247.95	110.70	21.306		
14,500.00	12,644.00	21,477.00	13,025.85	48.09	130.71	110.623	-564.39	-1,345.12	2,447.90	2,338.13	109.77	22.301		
14,600.00	12,644.00	21,477.00	13,025.85	48.94	130.71	110.623	-564.39	-1,345.12	2,537.94	2,429.04	108.90	23.305		
14,700.00	12,644.00	21,477.00	13,025.85	49.86	130.71	110.623	-564.39	-1,345.12	2,628.71	2,520.60	108.11	24.315		
14,800.00	12,644.00	21,477.00	13,025.85	50.85	130.71	110.623	-564.39	-1,345.12	2,720.12	2,612.74	107.38	25.332		
14,900.00	12,644.00	21,477.00	13,025.85	51.89	130.71	110.623	-564.39	-1,345.12	2,812.12	2,705.41	106.71	26.353		
15,000.00	12,644.00	21,477.00	13,025.85	52.99	130.71	110.623	-564.39	-1,345.12	2,904.64	2,798.55	106.09	27.379		
15,100.00	12,644.00	21,477.00	13,025.85	54.12	130.71	110.623	-564.39	-1,345.12	2,997.65	2,892.12	105.52	28.408		
15,200.00	12,644.00	21,477.00	13,025.85	55.29	130.71	110.623	-564.39	-1,345.12	3,091.09	2,986.09	105.00	29.439		
15,300.00	12,644.00	21,477.00	13,025.85	56.49	130.71	110.623	-564.39	-1,345.12	3,184.93	3,080.41	104.52	30.472		
15,400.00	12,644.00	21,477.00	13,025.85	57.72	130.71	110.623	-564.39	-1,345.12	3,279.14	3,175.06	104.08	31.507		
15,500.00	12,644.00	21,477.00	13,025.85	58.96	130.71	110.623	-564.39	-1,345.12	3,373.67	3,270.01	103.67	32.543		
15,600.00	12,644.00	21,477.00	13,025.85	60.22	130.71	110.623	-564.39	-1,345.12	3,468.52	3,365.23	103.29	33.580		
15,700.00	12,644.00	21,477.00	13,025.85	61.50	130.71	110.623	-564.39	-1,345.12	3,563.65	3,460.70	102.95	34.617		
15,800.00	12,644.00	21,477.00	13,025.85	62.79	130.71	110.623	-564.39	-1,345.12	3,659.03	3,556.41	102.63	35.653		
15,900.00	12,644.00	21,477.00	13,025.85	64.09	130.71	110.623	-564.39	-1,345.12	3,754.66	3,652.32	102.34	36.690		
16,000.00	12,644.00	21,477.00	13,025.85	65.40	130.71	110.623	-564.39	-1,345.12	3,850.51	3,748.44	102.07	37.726		
16,100.00	12,644.00	21,477.00	13,025.85	66.72	130.71	110.623	-564.39	-1,345.12	3,946.56	3,844.75	101.82	38.761		
16,200.00	12,644.00	21,477.00	13,025.85	68.04	130.71	110.623	-564.39	-1,345.12	4,042.81	3,941.22	101.59	39.795		
16,300.00	12,644.00	21,477.00	13,025.85	69.38	130.71	110.623	-564.39	-1,345.12	4,139.23	4,037.85	101.38	40.828		
16,400.00	12,644.00	21,477.00	13,025.85	70.72	130.71	110.623	-564.39	-1,345.12	4,235.83	4,134.64	101.19	41.860		
16,500.00	12,644.00	21,477.00	13,025.85	72.07	130.71	110.623	-564.39	-1,345.12	4,332.57	4,231.56	101.01	42.891		
16,600.00	12,644.00	21,477.00	13,025.85	73.42	130.71	110.623	-564.39	-1,345.12	4,429.46	4,328.61	100.85	43.920		
16,700.00	12,644.00	21,477.00	13,025.85	74.77	130.71	110.623	-564.39	-1,345.12	4,526.48	4,425.78	100.71	44.948		
16,800.00	12,644.00	21,477.00	13,025.85	76.13	130.71	110.623	-564.39	-1,345.12	4,623.64	4,523.06	100.57	45.974		
16,900.00	12,644.00	21,477.00	13,025.85	77.49	130.71	110.623	-564.39	-1,345.12	4,720.91	4,620.46	100.45	46.998		
17,000.00	12,644.00	21,477.00	13,025.85	78.86	130.71	110.623	-564.39	-1,345.12	4,818.29	4,717.95	100.34	48.020		
17,100.00	12,644.00	21,477.00	13,025.85	80.23	130.71	110.623	-564.39	-1,345.12	4,915.78	4,815.54	100.24	49.041		
17,200.00	12,644.00	21,477.00	13,025.85	81.60	130.71	110.623	-564.39	-1,345.12	5,013.36	4,913.21	100.15	50.059		
17,300.00	12,644.00	21,477.00	13,025.85	82.98	130.71	110.623	-564.39	-1,345.12	5,111.04	5,010.97	100.07	51.076		
17,400.00	12,644.00	21,477.00	13,025.85	84.36	130.71	110.623	-564.39	-1,345.12	5,208.81	5,108.81	99.99	52.091		
17,500.00	12,644.00	21,477.00	13,025.85	85.74	130.71	110.623	-564.39	-1,345.12	5,306.66	5,206.73	99.93	53.103		
17,600.00	12,644.00	21,477.00	13,025.85	87.12	130.71	110.623	-564.39	-1,345.12	5,404.59	5,304.72	99.87	54.114		
17,700.00	12,644.00	21,477.00	13,025.85	88.51	130.71	110.623	-564.39	-1,345.12	5,502.59	5,402.77	99.83	55.122		
17,800.00	12,644.00	21,477.00	13,025.85	89.89	130.71	110.623	-564.39	-1,345.12	5,600.67	5,500.89	99.78	56.129		
17,900.00	12,644.00	21,477.00	13,025.85	91.28	130.71	110.623	-564.39	-1,345.12	5,698.81	5,599.06	99.75	57.133		
18,000.00	12,644.00	21,477.00	13,025.85	92.67	130.71	110.623	-564.39	-1,345.12	5,797.02	5,697.30	99.72	58.134		
18,100.00	12,644.00	21,477.00	13,025.85	94.07	130.71	110.623	-564.39	-1,345.12	5,895.28	5,795.59	99.69	59.134		
18,200.00	12,644.00	21,477.00	13,025.85	95.46	130.71	110.623	-564.39	-1,345.12	5,993.60	5,893.93	99.68	60.131		
18,300.00	12,644.00	21,477.00	13,025.85	96.85	130.71	110.623	-564.39	-1,345.12	6,091.98	5,992.32	99.66	61.126		
18,400.00	12,644.00	21,477.00	13,025.85	98.25	130.71	110.623	-564.39	-1,345.12	6,190.41	6,090.76	99.65	62.119		
18,500.00	12,644.00	21,477.00	13,025.85	99.65	130.71	110.623	-564.39	-1,345.12	6,288.89	6,189.24	99.65	63.109		
18,600.00	12,644.00	21,477.00	13,025.85	101.05	130.71	110.623	-564.39	-1,345.12	6,387.42	6,287.76	99.65	64.097		
18,700.00	12,644.00	21,477.00	13,025.85	102.45	130.71	110.623	-564.39	-1,345.12	6,485.99	6,386.33	99.66	65.083		
18,800.00	12,644.00	21,477.00	13,025.85	103.85	130.71	110.623	-564.39	-1,345.12	6,584.60	6,484.93	99.67	66.066		
18,900.00	12,644.00	21,477.00	13,025.85	105.25	130.71	110.623	-564.39	-1,345.12	6,683.26	6,583.58	99.68	67.047		
19,000.00	12,644.00	21,477.00	13,025.85	106.65	130.71	110.623	-564.39	-1,345.12	6,781.95	6,682.25	99.70	68.026		
19,100.00	12,644.00	21,477.00	13,025.85	108.06	130.71	110.623	-564.39	-1,345.12	6,880.68	6,780.97	99.72	69.002		

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 512H - OH / 68637 - Surveys (H&P 625)													Offset Site Error:	0.00 usft
Survey Program:		124-MWD+HDGM						Rule Assigned:					Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		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	12,644.00	21,477.00	13,025.85	109.46	130.71	110.623	-564.39	-1,345.12	6,979.45	6,879.71	99.74	69.976		
19,300.00	12,644.00	21,477.00	13,025.85	110.87	130.71	110.623	-564.39	-1,345.12	7,078.26	6,978.49	99.77	70.947		
19,400.00	12,644.00	21,477.00	13,025.85	112.28	130.71	110.623	-564.39	-1,345.12	7,177.09	7,077.29	99.80	71.916		
19,500.00	12,644.00	21,477.00	13,025.85	113.68	130.71	110.623	-564.39	-1,345.12	7,275.96	7,176.13	99.83	72.882		
19,600.00	12,644.00	21,477.00	13,025.85	115.09	130.71	110.623	-564.39	-1,345.12	7,374.86	7,274.99	99.87	73.846		
19,700.00	12,644.00	21,477.00	13,025.85	116.50	130.71	110.623	-564.39	-1,345.12	7,473.79	7,373.88	99.91	74.807		
19,800.00	12,644.00	21,477.00	13,025.85	117.91	130.71	110.623	-564.39	-1,345.12	7,572.74	7,472.79	99.95	75.766		
19,900.00	12,644.00	21,477.00	13,025.85	119.32	130.71	110.623	-564.39	-1,345.12	7,671.73	7,571.73	99.99	76.722		
20,000.00	12,644.00	21,477.00	13,025.85	120.73	130.71	110.623	-564.39	-1,345.12	7,770.74	7,670.70	100.04	77.676		
20,100.00	12,644.00	21,477.00	13,025.85	122.15	130.71	110.623	-564.39	-1,345.12	7,869.77	7,769.68	100.09	78.627		
20,200.00	12,644.00	21,477.00	13,025.85	123.56	130.71	110.623	-564.39	-1,345.12	7,968.83	7,868.69	100.14	79.576		
20,300.00	12,644.00	21,477.00	13,025.85	124.97	130.71	110.623	-564.39	-1,345.12	8,067.91	7,967.72	100.20	80.522		
20,400.00	12,644.00	21,477.00	13,025.85	126.38	130.71	110.623	-564.39	-1,345.12	8,167.02	8,066.76	100.25	81.466		
20,500.00	12,644.00	21,477.00	13,025.85	127.80	130.71	110.623	-564.39	-1,345.12	8,266.14	8,165.83	100.31	82.407		
20,600.00	12,644.00	21,477.00	13,025.85	129.21	130.71	110.623	-564.39	-1,345.12	8,365.29	8,264.92	100.37	83.345		
20,700.00	12,644.00	21,477.00	13,025.85	130.63	130.71	110.623	-564.39	-1,345.12	8,464.45	8,364.02	100.43	84.281		
20,800.00	12,644.00	21,477.00	13,025.85	132.04	130.71	110.623	-564.39	-1,345.12	8,563.64	8,463.14	100.50	85.214		
20,900.00	12,644.00	21,477.00	13,025.85	133.46	130.71	110.623	-564.39	-1,345.12	8,662.84	8,562.28	100.56	86.145		
21,000.00	12,644.00	21,477.00	13,025.85	134.88	130.71	110.623	-564.39	-1,345.12	8,762.07	8,661.44	100.63	87.073		
21,100.00	12,644.00	21,477.00	13,025.85	136.29	130.71	110.623	-564.39	-1,345.12	8,861.31	8,760.61	100.70	87.998		
21,200.00	12,644.00	21,477.00	13,025.85	137.71	130.71	110.623	-564.39	-1,345.12	8,960.57	8,859.80	100.77	88.921		
21,300.00	12,644.00	21,477.00	13,025.85	139.13	130.71	110.623	-564.39	-1,345.12	9,059.84	8,959.00	100.84	89.841		
21,400.00	12,644.00	21,477.00	13,025.85	140.54	130.71	110.623	-564.39	-1,345.12	9,159.13	9,058.21	100.92	90.759		
21,500.00	12,644.00	21,477.00	13,025.85	141.96	130.71	110.623	-564.39	-1,345.12	9,258.43	9,157.44	100.99	91.674		
21,600.00	12,644.00	21,477.00	13,025.85	143.38	130.71	110.623	-564.39	-1,345.12	9,357.75	9,256.68	101.07	92.586		
21,700.00	12,644.00	21,477.00	13,025.85	144.80	130.71	110.623	-564.39	-1,345.12	9,457.09	9,355.94	101.15	93.496		
21,800.00	12,644.00	21,477.00	13,025.85	146.22	130.71	110.623	-564.39	-1,345.12	9,556.43	9,455.20	101.23	94.402		
21,900.00	12,644.00	21,477.00	13,025.85	147.64	130.71	110.623	-564.39	-1,345.12	9,655.79	9,554.48	101.31	95.307		
22,000.00	12,644.00	21,477.00	13,025.85	149.06	130.71	110.623	-564.39	-1,345.12	9,755.17	9,653.77	101.40	96.208		
22,100.00	12,644.00	21,477.00	13,025.85	150.48	130.71	110.623	-564.39	-1,345.12	9,854.56	9,753.07	101.48	97.107		
22,199.47	12,644.00	21,477.00	13,025.85	151.89	130.71	110.623	-564.39	-1,345.12	9,953.43	9,851.86	101.57	97.999		



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 513H - OH / 68705 - Surveys (H&P 656)													Offset Site Error: 0.00 usft
Survey Program: 188-MWD+HDGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	38.47	-13.53	1.00	1.00	-0.343	7,906.70	-47.30	7,906.85				
100.00	100.00	112.44	60.43	1.08	1.02	-0.347	7,906.95	-47.85	7,907.19	7,905.09	2.10	3,766.830	
200.00	200.00	188.00	135.99	1.60	1.04	-0.355	7,907.44	-48.98	7,907.85	7,905.21	2.64	2,995.460	
300.00	300.00	259.45	207.42	2.01	1.14	-0.365	7,908.15	-50.38	7,908.85	7,905.71	3.15	2,511.033	
400.00	400.00	339.00	286.94	2.35	1.30	-0.377	7,909.22	-52.11	7,910.20	7,906.55	3.65	2,164.585	
500.00	500.00	399.42	347.33	2.65	1.45	-0.389	7,910.26	-53.67	7,911.91	7,907.81	4.11	1,927.260	
600.00	600.00	1,235.00	1,181.46	2.93	4.09	-0.346	7,882.75	-47.64	7,904.31	7,897.31	6.99	1,130.360	
700.00	700.00	1,316.66	1,262.80	3.18	4.38	-0.329	7,875.92	-45.25	7,896.14	7,888.61	7.52	1,049.340	
800.00	800.00	1,345.81	1,291.87	3.41	4.48	-0.324	7,873.98	-44.48	7,889.45	7,881.59	7.86	1,003.560	
900.00	900.00	1,425.00	1,370.94	3.64	4.76	-0.310	7,870.02	-42.63	7,884.21	7,875.85	8.36	943.416	
1,000.00	1,000.00	1,425.00	1,370.94	3.85	4.76	-0.310	7,870.02	-42.63	7,878.87	7,870.30	8.57	919.321	
1,100.00	1,100.00	1,425.00	1,370.94	4.05	4.76	-0.310	7,870.02	-42.63	7,874.79	7,866.02	8.77	897.545	
1,200.00	1,200.00	1,425.00	1,370.94	4.24	4.76	-0.310	7,870.02	-42.63	7,871.99	7,863.02	8.97	877.743	
1,300.00	1,300.00	1,425.00	1,370.94	4.43	4.76	-0.310	7,870.02	-42.63	7,870.45	7,861.30	9.16	859.648	
1,400.00	1,400.00	1,505.75	1,451.66	4.61	5.03	-0.301	7,868.22	-41.34	7,868.50	7,858.89	9.61	818.837	
1,468.48	1,468.48	1,522.57	1,468.48	4.73	5.09	-0.300	7,868.17	-41.18	7,868.27	7,858.49	9.79	804.046	
1,500.00	1,500.00	1,530.32	1,476.23	4.78	5.12	-0.299	7,868.18	-41.11	7,868.32	7,858.46	9.87	797.437	
1,600.00	1,599.98	1,614.00	1,559.89	4.98	5.40	153.708	7,869.80	-40.92	7,871.57	7,861.25	10.33	762.364	
1,700.00	1,699.84	1,614.00	1,559.89	5.60	5.40	153.657	7,869.80	-40.92	7,877.41	7,866.55	10.85	725.813	
1,718.18	1,717.96	1,614.00	1,559.89	5.62	5.40	153.643	7,869.80	-40.92	7,878.94	7,868.07	10.86	725.198	
1,800.00	1,799.55	1,614.00	1,559.89	5.72	5.40	153.643	7,869.80	-40.92	7,886.58	7,875.62	10.96	719.693	
1,900.00	1,899.26	1,683.19	1,629.04	5.89	5.63	153.659	7,872.22	-41.11	7,896.80	7,885.45	11.35	695.542	
2,000.00	1,998.97	1,802.17	1,747.95	6.09	6.03	153.686	7,876.14	-41.34	7,906.91	7,894.98	11.94	662.236	
2,100.00	2,098.68	1,803.00	1,748.78	6.30	6.03	153.687	7,876.16	-41.34	7,917.52	7,905.39	12.13	652.512	
2,200.00	2,198.39	1,888.92	1,834.64	6.53	6.32	153.705	7,879.50	-41.75	7,928.30	7,915.66	12.64	627.478	
2,300.00	2,298.10	1,931.94	1,877.60	6.77	6.47	153.712	7,881.62	-42.16	7,940.05	7,927.05	13.00	610.884	
2,400.00	2,397.81	1,992.00	1,937.55	7.02	6.67	153.721	7,885.10	-42.96	7,952.54	7,939.11	13.43	592.191	
2,500.00	2,497.52	2,080.29	2,025.67	7.28	6.97	153.733	7,890.48	-44.37	7,965.42	7,951.45	13.97	570.142	
2,600.00	2,597.23	2,214.51	2,159.66	7.55	7.44	153.749	7,898.08	-46.63	7,977.88	7,963.19	14.69	543.259	
2,700.00	2,696.94	2,320.04	2,265.01	7.83	7.80	153.765	7,903.82	-48.08	7,990.13	7,974.82	15.31	521.985	
2,800.00	2,796.65	2,431.65	2,376.47	8.12	8.19	153.784	7,909.79	-49.13	8,002.29	7,986.33	15.96	501.436	
2,900.00	2,896.36	2,536.23	2,480.90	8.42	8.56	153.804	7,915.22	-49.96	8,014.29	7,997.70	16.59	482.999	
3,000.00	2,996.07	2,635.53	2,580.06	8.72	8.90	153.824	7,920.37	-50.52	8,026.29	8,009.08	17.21	466.282	
3,100.00	3,095.78	2,723.68	2,668.09	9.03	9.21	153.844	7,924.98	-50.68	8,038.34	8,020.54	17.80	451.605	
3,200.00	3,195.49	2,809.03	2,753.32	9.34	9.51	153.868	7,929.60	-50.18	8,050.56	8,032.18	18.38	438.002	
3,300.00	3,295.20	2,897.70	2,841.84	9.66	9.83	153.897	7,934.53	-49.06	8,062.94	8,043.97	18.98	424.869	
3,400.00	3,394.91	2,988.68	2,932.66	9.98	10.15	153.930	7,939.69	-47.56	8,075.43	8,055.85	19.59	412.281	
3,500.00	3,494.62	3,033.00	2,976.90	10.30	10.30	153.946	7,942.24	-46.71	8,088.17	8,068.14	20.03	403.832	
3,600.00	3,594.33	3,124.00	3,067.72	10.63	10.63	153.977	7,947.82	-45.46	8,101.15	8,080.51	20.65	392.389	
3,700.00	3,694.04	3,184.12	3,127.70	10.96	10.84	153.993	7,951.87	-45.26	8,114.71	8,093.56	21.15	383.662	
3,800.00	3,793.75	3,222.00	3,165.49	11.29	10.97	154.001	7,954.57	-45.38	8,128.79	8,107.21	21.57	376.781	
3,900.00	3,893.47	3,318.02	3,261.24	11.63	11.32	154.022	7,961.80	-45.63	8,143.12	8,120.91	22.22	366.506	
4,000.00	3,993.18	3,411.00	3,353.91	11.97	11.65	154.046	7,969.23	-45.24	8,157.92	8,135.07	22.85	356.969	
4,100.00	4,092.89	3,456.60	3,399.35	12.31	11.82	154.060	7,973.04	-44.81	8,172.98	8,149.67	23.31	350.598	
4,200.00	4,192.60	3,524.42	3,466.91	12.65	12.06	154.082	7,978.92	-43.89	8,188.46	8,164.60	23.86	343.256	
4,300.00	4,292.31	3,570.00	3,498.17	13.00	15.00	154.292	8,013.55	-41.56	8,197.74	8,170.53	27.21	301.252	
4,400.00	4,392.02	4,426.48	4,367.62	13.34	15.24	154.295	8,013.67	-43.40	8,204.75	8,176.98	27.77	295.457	
4,500.00	4,491.73	4,502.20	4,443.31	13.69	15.51	154.298	8,014.02	-45.46	8,212.05	8,183.70	28.35	289.665	
4,600.00	4,591.44	4,580.30	4,521.39	14.04	15.78	154.302	8,014.61	-47.53	8,219.64	8,190.70	28.94	284.011	
4,700.00	4,691.15	4,674.72	4,615.79	14.39	16.11	154.313	8,015.51	-48.98	8,227.44	8,197.84	29.59	278.014	
4,800.00	4,790.86	4,806.41	4,747.47	14.74	16.57	154.340	8,016.46	-49.44	8,235.02	8,204.64	30.38	271.056	
4,900.00	4,890.57	21,195.00	13,036.95	15.10	127.42	-159.725	-289.10	133.98	8,150.28	8,072.10	78.18	104.254	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 513H - OH / 68705 - Surveys (H&P 656)													Offset Site Error: 0.00 usft
Survey Program: 188-MWD+HDGM													Offset Well Error: 1.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,990.28	21,195.00	13,036.95	15.45	127.42	-159.725	-289.10	133.98	8,050.67	7,972.32	78.35	102.755	
5,100.00	5,089.99	21,195.00	13,036.95	15.81	127.42	-159.725	-289.10	133.98	7,951.06	7,872.54	78.52	101.259	
5,200.00	5,189.70	21,195.00	13,036.95	16.16	127.42	-159.725	-289.10	133.98	7,851.47	7,772.77	78.70	99.767	
5,300.00	5,289.41	21,195.00	13,036.95	16.52	127.42	-159.725	-289.10	133.98	7,751.89	7,673.01	78.88	98.277	
5,400.00	5,389.12	21,230.37	13,036.36	16.88	127.90	-157.525	-324.43	135.40	7,651.99	7,572.66	79.33	96.456	
5,500.00	5,488.83	21,231.80	13,036.34	17.24	127.91	-157.432	-325.86	135.47	7,552.41	7,472.88	79.53	94.966	
5,600.00	5,588.54	21,233.26	13,036.33	17.59	127.93	-157.338	-327.32	135.55	7,452.83	7,373.10	79.73	93.480	
5,700.00	5,688.25	21,234.74	13,036.31	17.95	127.95	-157.241	-328.80	135.62	7,353.26	7,273.33	79.93	91.997	
5,800.00	5,787.96	21,236.25	13,036.30	18.32	127.97	-157.142	-330.31	135.70	7,253.70	7,173.57	80.14	90.518	
5,900.00	5,887.67	21,237.79	13,036.29	18.68	128.00	-157.041	-331.85	135.78	7,154.16	7,073.82	80.34	89.044	
6,000.00	5,987.38	21,239.36	13,036.28	19.04	128.02	-156.938	-333.41	135.86	7,054.63	6,974.07	80.56	87.574	
6,100.00	6,087.09	21,240.96	13,036.27	19.40	128.04	-156.832	-335.01	135.95	6,955.10	6,874.33	80.77	86.108	
6,200.00	6,186.80	21,242.58	13,036.26	19.76	128.06	-156.724	-336.63	136.04	6,855.59	6,774.60	80.99	84.646	
6,300.00	6,286.51	21,244.24	13,036.25	20.13	128.08	-156.614	-338.29	136.13	6,756.10	6,674.88	81.21	83.189	
6,400.00	6,386.22	21,245.94	13,036.24	20.49	128.11	-156.501	-339.98	136.23	6,656.61	6,575.18	81.44	81.737	
6,500.00	6,485.93	21,247.66	13,036.23	20.86	128.13	-156.385	-341.70	136.33	6,557.15	6,475.48	81.67	80.289	
6,600.00	6,585.64	21,249.42	13,036.23	21.22	128.15	-156.267	-343.46	136.43	6,457.69	6,375.79	81.90	78.847	
6,700.00	6,685.35	21,251.21	13,036.22	21.59	128.18	-156.146	-345.25	136.53	6,358.25	6,276.12	82.14	77.409	
6,800.00	6,785.06	21,253.04	13,036.22	21.95	128.20	-156.021	-347.07	136.64	6,258.83	6,176.45	82.38	75.977	
6,900.00	6,884.77	21,254.91	13,036.22	22.32	128.23	-155.894	-348.94	136.76	6,159.43	6,076.80	82.62	74.549	
7,000.00	6,984.48	21,289.00	13,036.40	22.68	128.69	-153.485	-382.94	139.15	6,060.33	5,977.21	83.12	72.911	
7,100.00	7,084.19	21,289.00	13,036.40	23.05	128.69	-153.485	-382.94	139.15	5,960.93	5,877.57	83.36	71.511	
7,200.00	7,183.90	21,289.00	13,036.40	23.42	128.69	-153.485	-382.94	139.15	5,861.54	5,777.95	83.60	70.117	
7,300.00	7,283.61	21,289.00	13,036.40	23.78	128.69	-153.485	-382.94	139.15	5,762.18	5,678.34	83.84	68.728	
7,400.00	7,383.32	21,289.00	13,036.40	24.15	128.69	-153.485	-382.94	139.15	5,662.84	5,578.76	84.09	67.344	
7,500.00	7,483.03	21,289.00	13,036.40	24.52	128.69	-153.485	-382.94	139.15	5,563.53	5,479.19	84.34	65.966	
7,600.00	7,582.74	21,289.00	13,036.40	24.89	128.69	-153.485	-382.94	139.15	5,464.24	5,379.64	84.60	64.593	
7,700.00	7,682.45	21,289.00	13,036.40	25.25	128.69	-153.485	-382.94	139.15	5,364.98	5,280.12	84.85	63.225	
7,800.00	7,782.16	21,289.00	13,036.40	25.62	128.69	-153.485	-382.94	139.15	5,265.74	5,180.62	85.12	61.864	
7,900.00	7,881.87	21,289.00	13,036.40	25.99	128.69	-153.485	-382.94	139.15	5,166.53	5,081.15	85.39	60.508	
8,000.00	7,981.58	21,289.00	13,036.40	26.36	128.69	-153.485	-382.94	139.15	5,067.36	4,981.70	85.66	59.158	
8,100.00	8,081.29	21,289.00	13,036.40	26.73	128.69	-153.485	-382.94	139.15	4,968.22	4,882.28	85.94	57.814	
8,200.00	8,181.00	21,289.00	13,036.40	27.10	128.69	-153.485	-382.94	139.15	4,869.11	4,782.90	86.22	56.475	
8,300.00	8,280.71	21,289.00	13,036.40	27.47	128.69	-153.485	-382.94	139.15	4,770.04	4,683.54	86.50	55.143	
8,400.00	8,380.42	21,289.00	13,036.40	27.84	128.69	-153.485	-382.94	139.15	4,671.01	4,584.22	86.79	53.817	
8,500.00	8,480.13	21,301.50	13,036.54	28.21	128.86	-152.562	-395.40	140.14	4,572.02	4,484.83	87.19	52.438	
8,600.00	8,579.84	21,317.29	13,036.68	28.58	129.07	-151.365	-411.14	141.42	4,473.04	4,385.42	87.62	51.052	
8,700.00	8,679.55	21,332.23	13,036.78	28.95	129.28	-150.205	-426.02	142.67	4,374.08	4,286.04	88.04	49.681	
8,800.00	8,779.26	21,346.38	13,036.86	29.32	129.47	-149.079	-440.12	143.88	4,275.15	4,186.68	88.47	48.323	
8,900.00	8,878.97	21,359.80	13,036.90	29.69	129.65	-147.988	-453.49	145.05	4,176.25	4,087.35	88.90	46.978	
9,000.00	8,978.68	21,372.54	13,036.93	30.06	129.82	-146.931	-466.18	146.19	4,077.37	3,988.05	89.33	45.645	
9,100.00	9,078.39	21,384.66	13,036.93	30.43	129.99	-145.907	-478.25	147.29	3,978.54	3,888.78	89.76	44.324	
9,200.00	9,178.10	21,396.20	13,036.91	30.80	130.15	-144.915	-489.75	148.35	3,879.74	3,789.55	90.19	43.015	
9,300.00	9,277.81	21,397.27	13,036.92	31.17	130.16	-144.823	-490.81	148.44	3,781.00	3,690.45	90.55	41.754	
9,400.00	9,377.52	21,403.72	13,036.92	31.54	130.25	-144.261	-497.23	149.03	3,682.32	3,591.36	90.97	40.480	
9,500.00	9,477.23	21,410.18	13,036.92	31.91	130.34	-143.695	-503.66	149.62	3,583.70	3,492.31	91.39	39.214	
9,600.00	9,576.94	21,416.63	13,036.91	32.29	130.42	-143.124	-510.09	150.21	3,485.14	3,393.32	91.82	37.956	
9,700.00	9,676.65	21,423.08	13,036.91	32.66	130.51	-142.548	-516.51	150.80	3,386.66	3,294.40	92.26	36.706	
9,800.00	9,776.36	21,429.54	13,036.91	33.03	130.60	-141.968	-522.94	151.39	3,288.26	3,195.54	92.72	35.465	
9,900.00	9,876.07	21,435.99	13,036.90	33.40	130.69	-141.383	-529.37	151.98	3,189.94	3,096.75	93.19	34.231	
10,000.00	9,975.78	21,442.44	13,036.90	33.77	130.77	-140.794	-535.79	152.57	3,091.72	2,998.04	93.67	33.005	
10,100.00	10,075.49	21,448.90	13,036.90	34.14	130.86	-140.201	-542.22	153.17	2,993.60	2,899.42	94.17	31.788	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 513H - OH / 68705 - Surveys (H&P 656)												Offset Site Error:	0.00 usft
Survey Program: 188-MWD+HDGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Offset												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,200.00	10,175.20	21,455.35	13,036.89	34.52	130.95	-139.603	-548.65	153.76	2,895.59	2,800.90	94.69	30.579	
10,300.00	10,274.91	21,461.81	13,036.89	34.89	131.04	-139.001	-555.07	154.35	2,797.71	2,702.48	95.23	29.377	
10,400.00	10,374.62	21,468.26	13,036.89	35.26	131.13	-138.395	-561.50	154.94	2,699.98	2,604.18	95.80	28.185	
10,500.00	10,474.33	21,474.00	13,036.88	35.63	131.20	-137.853	-567.22	155.46	2,602.39	2,506.01	96.38	27.001	
10,600.00	10,574.04	21,474.00	13,036.88	36.01	131.20	-137.853	-567.22	155.46	2,504.99	2,408.05	96.95	25.839	
10,700.00	10,673.75	21,474.00	13,036.88	36.38	131.20	-137.853	-567.22	155.46	2,407.81	2,310.26	97.54	24.684	
10,800.00	10,773.46	21,474.00	13,036.88	36.75	131.20	-137.853	-567.22	155.46	2,310.86	2,212.68	98.18	23.536	
10,900.00	10,873.18	21,474.00	13,036.88	37.12	131.20	-137.853	-567.22	155.46	2,214.19	2,115.32	98.87	22.396	
11,000.00	10,972.89	21,474.00	13,036.88	37.50	131.20	-137.853	-567.22	155.46	2,117.82	2,018.22	99.60	21.263	
11,100.00	11,072.60	21,474.00	13,036.88	37.87	131.20	-137.853	-567.22	155.46	2,021.81	1,921.42	100.40	20.138	
11,200.00	11,172.31	21,474.00	13,036.88	38.24	131.20	-137.853	-567.22	155.46	1,926.21	1,824.94	101.27	19.021	
11,300.00	11,272.02	21,474.00	13,036.88	38.62	131.20	-137.853	-567.22	155.46	1,831.07	1,728.85	102.22	17.913	
11,381.30	11,353.08	21,474.00	13,036.88	38.92	131.20	-137.853	-567.22	155.46	1,754.13	1,651.05	103.07	17.018	
11,400.00	11,371.73	21,474.00	13,036.88	38.98	131.20	-137.128	-567.22	155.46	1,736.47	1,633.19	103.28	16.814	
11,500.00	11,471.59	21,474.00	13,036.88	39.34	131.20	-133.033	-567.22	155.46	1,641.92	1,537.50	104.43	15.723	
11,599.47	11,571.04	21,474.00	13,036.88	39.49	131.20	77.371	-567.22	155.46	1,547.75	1,442.11	105.64	14.651	
11,600.00	11,571.57	21,474.00	13,036.88	39.49	131.20	77.371	-567.22	155.46	1,547.25	1,441.60	105.65	14.646	
11,700.00	11,671.57	21,474.00	13,036.88	39.52	131.20	77.371	-567.22	155.46	1,452.90	1,345.92	106.98	13.581	
11,800.00	11,771.57	21,474.00	13,036.88	39.52	131.20	77.371	-567.22	155.46	1,359.36	1,250.86	108.50	12.529	
11,900.00	11,871.57	21,474.00	13,036.88	39.53	131.20	77.371	-567.22	155.46	1,266.81	1,156.56	110.25	11.490	
12,000.00	11,971.57	21,474.00	13,036.88	39.54	131.20	77.371	-567.22	155.46	1,175.47	1,063.19	112.28	10.469	
12,099.47	12,071.04	21,474.00	13,036.88	39.54	131.20	77.371	-567.22	155.46	1,086.13	971.48	114.65	9.473	
12,100.00	12,071.57	21,474.00	13,036.88	39.55	131.20	-102.175	-567.22	155.46	1,085.67	971.00	114.67	9.468	
12,150.00	12,121.50	21,474.00	13,036.88	39.65	131.20	-110.987	-567.22	155.46	1,041.74	925.71	116.03	8.978	
12,200.00	12,171.05	21,474.00	13,036.88	39.91	131.20	-118.349	-567.22	155.46	999.20	881.66	117.55	8.500	
12,250.00	12,219.84	21,474.00	13,036.88	40.20	131.20	-124.310	-567.22	155.46	958.58	839.37	119.20	8.042	
12,300.00	12,267.50	21,474.00	13,036.88	40.50	131.20	-129.046	-567.22	155.46	920.44	799.45	120.99	7.608	
12,350.00	12,313.66	21,474.00	13,036.88	40.80	131.20	-132.758	-567.22	155.46	885.44	762.56	122.88	7.206	
12,400.00	12,357.98	21,474.00	13,036.88	41.09	131.20	-135.629	-567.22	155.46	854.22	729.39	124.83	6.843	
12,450.00	12,400.11	21,474.00	13,036.88	41.38	131.20	-137.804	-567.22	155.46	827.48	700.71	126.77	6.527	
12,500.00	12,439.74	21,474.00	13,036.88	41.66	131.20	-139.392	-567.22	155.46	805.86	677.26	128.61	6.266	
12,550.00	12,476.56	21,474.00	13,036.88	41.92	131.20	-140.474	-567.22	155.46	789.97	659.75	130.22	6.066	
12,600.00	12,510.29	21,474.00	13,036.88	42.16	131.20	-141.100	-567.22	155.46	780.27	648.77	131.50	5.934	
12,649.23	12,540.24	21,474.00	13,036.88	42.38	131.20	-141.302	-567.22	155.46	777.07	644.73	132.34	5.872 CC	
12,650.00	12,540.68	21,474.00	13,036.88	42.39	131.20	-141.302	-567.22	155.46	777.07	644.72	132.34	5.872 ES, SF	
12,700.00	12,567.50	21,474.00	13,036.88	42.58	131.20	-141.087	-567.22	155.46	780.47	647.78	132.69	5.882	
12,750.00	12,590.54	21,474.00	13,036.88	42.76	131.20	-140.447	-567.22	155.46	790.37	657.84	132.53	5.964	
12,800.00	12,609.63	21,474.00	13,036.88	42.91	131.20	-139.351	-567.22	155.46	806.45	674.57	131.88	6.115	
12,850.00	12,624.61	21,474.00	13,036.88	43.03	131.20	-137.746	-567.22	155.46	828.23	697.41	130.82	6.331	
12,900.00	12,635.39	21,474.00	13,036.88	43.12	131.20	-135.552	-567.22	155.46	855.12	725.68	129.44	6.607	
12,950.00	12,641.87	21,474.00	13,036.88	43.19	131.20	-132.658	-567.22	155.46	886.46	758.62	127.84	6.934	
12,999.47	12,644.00	21,474.00	13,036.88	43.23	131.20	-128.961	-567.22	155.46	921.18	795.06	126.13	7.304	
13,000.00	12,644.00	21,474.00	13,036.88	43.24	131.20	-128.961	-567.22	155.46	921.57	795.46	126.11	7.308	
13,100.00	12,644.00	21,474.00	13,036.88	43.31	131.20	-128.961	-567.22	155.46	997.38	874.69	122.69	8.129	
13,200.00	12,644.00	21,474.00	13,036.88	43.39	131.20	-128.961	-567.22	155.46	1,077.15	957.58	119.58	9.008	
13,300.00	12,644.00	21,474.00	13,036.88	43.50	131.20	-128.961	-567.22	155.46	1,160.06	1,043.27	116.79	9.933	
13,400.00	12,644.00	21,474.00	13,036.88	43.63	131.20	-128.961	-567.22	155.46	1,245.48	1,131.14	114.34	10.893	
13,500.00	12,644.00	21,474.00	13,036.88	43.78	131.20	-128.961	-567.22	155.46	1,332.93	1,220.75	112.18	11.882	
13,600.00	12,644.00	21,474.00	13,036.88	43.96	131.20	-128.961	-567.22	155.46	1,422.04	1,311.74	110.30	12.893	
13,700.00	12,644.00	21,474.00	13,036.88	44.18	131.20	-128.961	-567.22	155.46	1,512.51	1,403.86	108.65	13.921	
13,800.00	12,644.00	21,474.00	13,036.88	44.44	131.20	-128.961	-567.22	155.46	1,604.11	1,496.91	107.20	14.964	
13,900.00	12,644.00	21,474.00	13,036.88	44.74	131.20	-128.961	-567.22	155.46	1,696.66	1,590.72	105.93	16.017	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 513H - OH / 68705 - Surveys (H&P 656)												Offset Site Error:	0.00 usft
Survey Program: 188-MWD+HDGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Offset												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,000.00	12,644.00	21,474.00	13,036.88	45.11	131.20	-128.961	-567.22	155.46	1,790.01	1,685.19	104.82	17.078	
14,100.00	12,644.00	21,474.00	13,036.88	45.54	131.20	-128.961	-567.22	155.46	1,884.04	1,780.21	103.83	18.145	
14,200.00	12,644.00	21,474.00	13,036.88	46.05	131.20	-128.961	-567.22	155.46	1,978.66	1,875.70	102.96	19.217	
14,300.00	12,644.00	21,474.00	13,036.88	46.65	131.20	-128.961	-567.22	155.46	2,073.78	1,971.59	102.19	20.293	
14,400.00	12,644.00	21,474.00	13,036.88	47.33	131.20	-128.961	-567.22	155.46	2,169.34	2,067.84	101.51	21.371	
14,500.00	12,644.00	21,474.00	13,036.88	48.09	131.20	-128.961	-567.22	155.46	2,265.29	2,164.39	100.90	22.451	
14,600.00	12,644.00	21,474.00	13,036.88	48.94	131.20	-128.961	-567.22	155.46	2,361.57	2,261.22	100.35	23.533	
14,700.00	12,644.00	21,474.00	13,036.88	49.86	131.20	-128.961	-567.22	155.46	2,458.15	2,358.29	99.87	24.615	
14,800.00	12,644.00	21,474.00	13,036.88	50.85	131.20	-128.961	-567.22	155.46	2,554.99	2,455.56	99.43	25.697	
14,900.00	12,644.00	21,474.00	13,036.88	51.89	131.20	-128.961	-567.22	155.46	2,652.07	2,553.03	99.04	26.779	
15,000.00	12,644.00	21,474.00	13,036.88	52.99	131.20	-128.961	-567.22	155.46	2,749.36	2,650.67	98.68	27.860	
15,100.00	12,644.00	21,474.00	13,036.88	54.12	131.20	-128.961	-567.22	155.46	2,846.83	2,748.46	98.37	28.941	
15,200.00	12,644.00	21,474.00	13,036.88	55.29	131.20	-128.961	-567.22	155.46	2,944.47	2,846.39	98.08	30.022	
15,300.00	12,644.00	21,474.00	13,036.88	56.49	131.20	-128.961	-567.22	155.46	3,042.27	2,944.45	97.82	31.101	
15,400.00	12,644.00	21,474.00	13,036.88	57.72	131.20	-128.961	-567.22	155.46	3,140.21	3,042.62	97.59	32.179	
15,500.00	12,644.00	21,474.00	13,036.88	58.96	131.20	-128.961	-567.22	155.46	3,238.27	3,140.89	97.38	33.256	
15,600.00	12,644.00	21,474.00	13,036.88	60.22	131.20	-128.961	-567.22	155.46	3,336.44	3,239.26	97.18	34.331	
15,700.00	12,644.00	21,474.00	13,036.88	61.50	131.20	-128.961	-567.22	155.46	3,434.73	3,337.71	97.01	35.405	
15,800.00	12,644.00	21,474.00	13,036.88	62.79	131.20	-128.961	-567.22	155.46	3,533.10	3,436.25	96.86	36.478	
15,900.00	12,644.00	21,474.00	13,036.88	64.09	131.20	-128.961	-567.22	155.46	3,631.57	3,534.85	96.72	37.548	
16,000.00	12,644.00	21,474.00	13,036.88	65.40	131.20	-128.961	-567.22	155.46	3,730.12	3,633.53	96.59	38.618	
16,100.00	12,644.00	21,474.00	13,036.88	66.72	131.20	-128.961	-567.22	155.46	3,828.74	3,732.27	96.48	39.685	
16,200.00	12,644.00	21,474.00	13,036.88	68.04	131.20	-128.961	-567.22	155.46	3,927.44	3,831.06	96.38	40.751	
16,300.00	12,644.00	21,474.00	13,036.88	69.38	131.20	-128.961	-567.22	155.46	4,026.19	3,929.91	96.29	41.815	
16,400.00	12,644.00	21,474.00	13,036.88	70.72	131.20	-128.961	-567.22	155.46	4,125.01	4,028.81	96.20	42.877	
16,500.00	12,644.00	21,474.00	13,036.88	72.07	131.20	-128.961	-567.22	155.46	4,223.89	4,127.75	96.13	43.938	
16,600.00	12,644.00	21,474.00	13,036.88	73.42	131.20	-128.961	-567.22	155.46	4,322.81	4,226.74	96.07	44.996	
16,700.00	12,644.00	21,474.00	13,036.88	74.77	131.20	-128.961	-567.22	155.46	4,421.78	4,325.77	96.02	46.053	
16,800.00	12,644.00	21,474.00	13,036.88	76.13	131.20	-128.961	-567.22	155.46	4,520.80	4,424.83	95.97	47.107	
16,900.00	12,644.00	21,474.00	13,036.88	77.49	131.20	-128.961	-567.22	155.46	4,619.86	4,523.94	95.93	48.160	
17,000.00	12,644.00	21,474.00	13,036.88	78.86	131.20	-128.961	-567.22	155.46	4,718.96	4,623.07	95.89	49.210	
17,100.00	12,644.00	21,474.00	13,036.88	80.23	131.20	-128.961	-567.22	155.46	4,818.10	4,722.24	95.87	50.259	
17,200.00	12,644.00	21,474.00	13,036.88	81.60	131.20	-128.961	-567.22	155.46	4,917.27	4,821.43	95.84	51.305	
17,300.00	12,644.00	21,474.00	13,036.88	82.98	131.20	-128.961	-567.22	155.46	5,016.48	4,920.65	95.83	52.349	
17,400.00	12,644.00	21,474.00	13,036.88	84.36	131.20	-128.961	-567.22	155.46	5,115.72	5,019.90	95.82	53.391	
17,500.00	12,644.00	21,474.00	13,036.88	85.74	131.20	-128.961	-567.22	155.46	5,214.98	5,119.17	95.81	54.431	
17,600.00	12,644.00	21,474.00	13,036.88	87.12	131.20	-128.961	-567.22	155.46	5,314.28	5,218.47	95.81	55.469	
17,700.00	12,644.00	21,474.00	13,036.88	88.51	131.20	-128.961	-567.22	155.46	5,413.59	5,317.79	95.81	56.504	
17,800.00	12,644.00	21,474.00	13,036.88	89.89	131.20	-128.961	-567.22	155.46	5,512.94	5,417.12	95.81	57.537	
17,900.00	12,644.00	21,474.00	13,036.88	91.28	131.20	-128.961	-567.22	155.46	5,612.31	5,516.48	95.83	58.568	
18,000.00	12,644.00	21,474.00	13,036.88	92.67	131.20	-128.961	-567.22	155.46	5,711.70	5,615.86	95.84	59.597	
18,100.00	12,644.00	21,474.00	13,036.88	94.07	131.20	-128.961	-567.22	155.46	5,811.11	5,715.25	95.86	60.623	
18,200.00	12,644.00	21,474.00	13,036.88	95.46	131.20	-128.961	-567.22	155.46	5,910.54	5,814.66	95.88	61.647	
18,300.00	12,644.00	21,474.00	13,036.88	96.85	131.20	-128.961	-567.22	155.46	6,009.98	5,914.08	95.90	62.669	
18,400.00	12,644.00	21,474.00	13,036.88	98.25	131.20	-128.961	-567.22	155.46	6,109.45	6,013.52	95.93	63.688	
18,500.00	12,644.00	21,474.00	13,036.88	99.65	131.20	-128.961	-567.22	155.46	6,208.94	6,112.98	95.96	64.705	
18,600.00	12,644.00	21,474.00	13,036.88	101.05	131.20	-128.961	-567.22	155.46	6,308.44	6,212.45	95.99	65.720	
18,700.00	12,644.00	21,474.00	13,036.88	102.45	131.20	-128.961	-567.22	155.46	6,407.95	6,311.93	96.03	66.732	
18,800.00	12,644.00	21,474.00	13,036.88	103.85	131.20	-128.961	-567.22	155.46	6,507.48	6,411.42	96.06	67.741	
18,900.00	12,644.00	21,474.00	13,036.88	105.25	131.20	-128.961	-567.22	155.46	6,607.03	6,510.92	96.10	68.748	
19,000.00	12,644.00	21,474.00	13,036.88	106.65	131.20	-128.961	-567.22	155.46	6,706.59	6,610.44	96.15	69.753	
19,100.00	12,644.00	21,474.00	13,036.88	108.06	131.20	-128.961	-567.22	155.46	6,806.16	6,709.96	96.19	70.755	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 513H - OH / 68705 - Surveys (H&P 656)												Offset Site Error:	0.00 usft
Survey Program: 188-MWD+HDGM												Offset Well Error:	1.00 usft
Reference		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	12,644.00	21,474.00	13,036.88	109.46	131.20	-128.961	-567.22	155.46	6,905.74	6,809.50	96.24	71.755	
19,300.00	12,644.00	21,474.00	13,036.88	110.87	131.20	-128.961	-567.22	155.46	7,005.34	6,909.05	96.29	72.752	
19,400.00	12,644.00	21,474.00	13,036.88	112.28	131.20	-128.961	-567.22	155.46	7,104.94	7,008.60	96.34	73.746	
19,500.00	12,644.00	21,474.00	13,036.88	113.68	131.20	-128.961	-567.22	155.46	7,204.56	7,108.16	96.40	74.738	
19,600.00	12,644.00	21,474.00	13,036.88	115.09	131.20	-128.961	-567.22	155.46	7,304.19	7,207.74	96.45	75.728	
19,700.00	12,644.00	21,474.00	13,036.88	116.50	131.20	-128.961	-567.22	155.46	7,403.83	7,307.32	96.51	76.714	
19,800.00	12,644.00	21,474.00	13,036.88	117.91	131.20	-128.961	-567.22	155.46	7,503.48	7,406.90	96.57	77.698	
19,900.00	12,644.00	21,474.00	13,036.88	119.32	131.20	-128.961	-567.22	155.46	7,603.13	7,506.50	96.63	78.680	
20,000.00	12,644.00	21,474.00	13,036.88	120.73	131.20	-128.961	-567.22	155.46	7,702.80	7,606.10	96.70	79.659	
20,100.00	12,644.00	21,474.00	13,036.88	122.15	131.20	-128.961	-567.22	155.46	7,802.47	7,705.71	96.76	80.635	
20,200.00	12,644.00	21,474.00	13,036.88	123.56	131.20	-128.961	-567.22	155.46	7,902.16	7,805.33	96.83	81.608	
20,300.00	12,644.00	21,474.00	13,036.88	124.97	131.20	-128.961	-567.22	155.46	8,001.85	7,904.95	96.90	82.579	
20,400.00	12,644.00	21,474.00	13,036.88	126.38	131.20	-128.961	-567.22	155.46	8,101.55	8,004.58	96.97	83.547	
20,500.00	12,644.00	21,474.00	13,036.88	127.80	131.20	-128.961	-567.22	155.46	8,201.25	8,104.21	97.04	84.512	
20,600.00	12,644.00	21,474.00	13,036.88	129.21	131.20	-128.961	-567.22	155.46	8,300.97	8,203.85	97.12	85.475	
20,700.00	12,644.00	21,474.00	13,036.88	130.63	131.20	-128.961	-567.22	155.46	8,400.69	8,303.49	97.19	86.435	
20,800.00	12,644.00	21,474.00	13,036.88	132.04	131.20	-128.961	-567.22	155.46	8,500.41	8,403.14	97.27	87.392	
20,900.00	12,644.00	21,474.00	13,036.88	133.46	131.20	-128.961	-567.22	155.46	8,600.14	8,502.80	97.35	88.346	
21,000.00	12,644.00	21,474.00	13,036.88	134.88	131.20	-128.961	-567.22	155.46	8,699.88	8,602.46	97.43	89.298	
21,100.00	12,644.00	21,474.00	13,036.88	136.29	131.20	-128.961	-567.22	155.46	8,799.63	8,702.12	97.51	90.246	
21,200.00	12,644.00	21,474.00	13,036.88	137.71	131.20	-128.961	-567.22	155.46	8,899.38	8,801.79	97.59	91.192	
21,300.00	12,644.00	21,474.00	13,036.88	139.13	131.20	-128.961	-567.22	155.46	8,999.13	8,901.46	97.67	92.135	
21,400.00	12,644.00	21,474.00	13,036.88	140.54	131.20	-128.961	-567.22	155.46	9,098.90	9,001.14	97.76	93.076	
21,500.00	12,644.00	21,474.00	13,036.88	141.96	131.20	-128.961	-567.22	155.46	9,198.66	9,100.82	97.84	94.013	
21,600.00	12,644.00	21,474.00	13,036.88	143.38	131.20	-128.961	-567.22	155.46	9,298.43	9,200.50	97.93	94.948	
21,700.00	12,644.00	21,474.00	13,036.88	144.80	131.20	-128.961	-567.22	155.46	9,398.21	9,300.19	98.02	95.880	
21,800.00	12,644.00	21,474.00	13,036.88	146.22	131.20	-128.961	-567.22	155.46	9,497.99	9,399.88	98.11	96.809	
21,900.00	12,644.00	21,474.00	13,036.88	147.64	131.20	-128.961	-567.22	155.46	9,597.78	9,499.57	98.20	97.735	
22,000.00	12,644.00	21,474.00	13,036.88	149.06	131.20	-128.961	-567.22	155.46	9,697.57	9,599.27	98.29	98.658	
22,100.00	12,644.00	21,474.00	13,036.88	150.48	131.20	-128.961	-567.22	155.46	9,797.36	9,698.97	98.39	99.578	
22,199.47	12,644.00	21,474.00	13,036.88	151.89	131.20	-128.961	-567.22	155.46	9,896.63	9,798.15	98.48	100.491	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 404H - OH / 67732 - Surveys (H&P 474)													Offset Site Error: 0.00 usft
Survey Program: 174-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	-42.00	1.00	1.00	7.097	8,043.42	1,001.38	8,105.62				
100.00	100.00	85.29	43.28	1.08	1.12	7.102	8,043.63	1,002.13	8,106.01	8,103.81	2.20	3,681.557	
200.00	200.00	174.00	131.96	1.60	1.44	7.118	8,044.28	1,004.48	8,107.04	8,104.02	3.03	2,679.486	
300.00	300.00	389.49	347.42	2.01	2.66	7.123	8,044.21	1,005.23	8,106.92	8,102.27	4.65	1,742.486	
400.00	400.00	486.41	444.33	2.35	3.03	7.115	8,043.79	1,004.09	8,106.34	8,100.97	5.37	1,510.477	
500.00	500.00	566.98	524.90	2.65	3.21	7.112	8,043.49	1,003.59	8,105.89	8,100.05	5.84	1,386.944	
600.00	600.00	649.20	607.12	2.93	3.39	7.110	8,043.38	1,003.26	8,105.71	8,099.43	6.28	1,289.970	
700.00	700.00	754.75	712.67	3.18	3.61	7.107	8,043.35	1,002.90	8,105.64	8,098.91	6.74	1,203.252	
800.00	800.00	844.86	802.78	3.41	3.75	7.106	8,043.24	1,002.73	8,105.50	8,098.39	7.11	1,140.184	
813.75	813.75	855.83	813.75	3.44	3.77	7.106	8,043.24	1,002.73	8,105.50	8,098.34	7.15	1,132.958	
900.00	900.00	945.65	903.57	3.64	3.88	7.106	8,043.24	1,002.76	8,105.51	8,098.04	7.47	1,085.111	
1,000.00	1,000.00	1,042.38	1,000.30	3.85	4.02	7.107	8,043.20	1,002.78	8,105.47	8,097.66	7.81	1,037.355	
1,100.00	1,100.00	1,155.21	1,113.13	4.05	4.22	7.105	8,043.15	1,002.57	8,105.40	8,097.19	8.21	987.425	
1,161.52	1,161.52	1,203.60	1,161.52	4.17	4.28	7.105	8,043.12	1,002.47	8,105.36	8,096.98	8.38	967.442	
1,200.00	1,200.00	1,235.00	1,192.92	4.24	4.31	7.104	8,043.14	1,002.47	8,105.37	8,096.89	8.49	955.096	
1,300.00	1,300.00	1,342.64	1,300.56	4.43	4.43	7.107	8,043.11	1,002.86	8,105.39	8,096.58	8.81	919.819	
1,303.30	1,303.30	1,345.38	1,303.30	4.43	4.43	7.107	8,043.11	1,002.87	8,105.39	8,096.57	8.82	918.810	
1,400.00	1,400.00	1,430.81	1,388.73	4.61	4.53	7.111	8,043.12	1,003.46	8,105.48	8,096.37	9.11	889.447	
1,500.00	1,500.00	1,531.87	1,489.79	4.78	4.71	7.116	8,043.05	1,004.16	8,105.50	8,096.06	9.44	858.649	
1,600.00	1,599.98	1,603.00	1,560.87	4.98	5.03	161.143	8,043.10	1,006.65	8,107.59	8,097.83	9.76	830.481	
1,700.00	1,699.84	1,638.89	1,596.69	5.60	5.38	161.126	8,043.20	1,008.92	8,113.49	8,103.08	10.41	779.320	
1,718.18	1,717.96	1,648.39	1,606.16	5.62	5.48	161.122	8,043.23	1,009.63	8,114.98	8,104.54	10.44	777.003	
1,800.00	1,799.55	1,696.00	1,653.57	5.72	5.95	161.160	8,043.48	1,013.90	8,122.20	8,111.55	10.65	762.931	
1,900.00	1,899.26	1,805.19	1,762.21	5.89	6.32	161.256	8,043.96	1,024.85	8,131.11	8,120.14	10.97	741.506	
2,000.00	1,998.97	1,878.00	1,834.67	6.09	6.43	161.318	8,044.48	1,031.97	8,140.25	8,129.00	11.25	723.525	
2,100.00	2,098.68	1,948.38	1,904.70	6.30	6.55	161.378	8,045.21	1,038.90	8,149.73	8,138.18	11.55	705.399	
2,200.00	2,198.39	2,045.68	2,001.50	6.53	6.74	161.462	8,046.29	1,048.69	8,159.35	8,147.44	11.91	685.043	
2,300.00	2,298.10	2,140.27	2,095.62	6.77	6.93	161.543	8,047.34	1,058.17	8,169.00	8,156.72	12.28	665.336	
2,400.00	2,397.81	2,256.97	2,211.69	7.02	7.20	161.645	8,048.55	1,070.18	8,178.62	8,165.93	12.69	644.389	
2,500.00	2,497.52	2,363.29	2,317.41	7.28	7.46	161.740	8,049.42	1,081.38	8,188.10	8,174.99	13.11	624.770	
2,600.00	2,597.23	2,495.02	2,448.34	7.55	7.80	161.863	8,050.07	1,095.91	8,197.33	8,183.75	13.57	603.976	
2,700.00	2,696.94	2,708.11	2,660.10	7.83	8.40	162.063	8,048.56	1,119.52	8,205.09	8,190.91	14.18	578.743	
2,800.00	2,796.65	2,817.74	2,769.10	8.12	8.78	162.163	8,047.29	1,131.17	8,212.69	8,198.06	14.63	561.523	
2,900.00	2,896.36	2,880.05	2,831.17	8.42	9.00	162.211	8,046.78	1,136.61	8,220.41	8,205.41	15.00	548.021	
3,000.00	2,996.07	2,933.64	2,884.60	8.72	9.18	162.249	8,046.77	1,140.79	8,228.76	8,213.39	15.37	535.491	
3,100.00	3,095.78	3,015.00	2,965.70	9.03	9.42	162.306	8,047.07	1,147.27	8,237.51	8,221.72	15.78	521.961	
3,200.00	3,195.49	3,101.43	3,051.83	9.34	9.68	162.369	8,047.50	1,154.39	8,246.45	8,230.24	16.21	508.709	
3,300.00	3,295.20	3,182.32	3,132.45	9.66	9.93	162.427	8,048.02	1,161.04	8,255.55	8,238.91	16.64	496.200	
3,400.00	3,394.91	3,254.73	3,204.60	9.98	10.15	162.479	8,048.67	1,167.05	8,264.93	8,247.87	17.06	484.566	
3,500.00	3,494.62	3,327.95	3,277.55	10.30	10.38	162.533	8,049.56	1,173.28	8,274.65	8,257.17	17.48	473.363	
3,600.00	3,594.33	3,408.37	3,357.66	10.63	10.63	162.592	8,050.73	1,180.23	8,284.65	8,266.73	17.92	462.267	
3,700.00	3,694.04	3,490.83	3,439.76	10.96	10.90	162.656	8,052.03	1,187.91	8,294.87	8,276.50	18.37	451.445	
3,800.00	3,793.75	3,693.80	3,641.98	11.29	11.56	162.803	8,054.09	1,205.04	8,304.28	8,285.25	19.03	436.421	
3,900.00	3,893.47	4,071.59	4,018.35	11.63	12.82	163.083	8,050.22	1,236.92	8,312.26	8,292.27	19.99	415.748	
4,000.00	3,993.18	4,132.09	4,078.61	11.97	13.02	163.130	8,048.65	1,242.16	8,318.32	8,297.93	20.40	407.838	
4,100.00	4,092.89	4,230.36	4,176.51	12.31	13.35	163.203	8,046.39	1,250.26	8,324.65	8,303.79	20.86	399.037	
4,200.00	4,192.60	4,314.28	4,260.14	12.65	13.63	163.263	8,044.50	1,257.05	8,331.01	8,309.70	21.31	391.005	
4,300.00	4,292.31	4,402.24	4,347.80	13.00	13.92	163.326	8,042.70	1,264.07	8,337.58	8,315.82	21.76	383.165	
4,400.00	4,392.02	20,686.00	12,509.89	13.34	123.99	-130.185	-243.16	1,617.09	8,296.21	8,215.97	80.23	103.400	
4,500.00	4,491.73	20,686.00	12,509.89	13.69	123.99	-130.185	-243.16	1,617.09	8,199.32	8,118.90	80.42	101.956	
4,600.00	4,591.44	20,686.00	12,509.89	14.04	123.99	-130.185	-243.16	1,617.09	8,102.51	8,021.90	80.61	100.514	
4,700.00	4,691.15	20,686.00	12,509.89	14.39	123.99	-130.185	-243.16	1,617.09	8,005.78	7,924.97	80.81	99.074	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 404H - OH / 67732 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 174-MWD+HRGM												Offset Well Error:	1.00 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,800.00	4,790.86	20,686.00	12,509.89	14.74	123.99	-130.185	-243.16	1,617.09	7,909.13	7,828.12	81.01	97.636	
4,900.00	4,890.57	20,686.00	12,509.89	15.10	123.99	-130.185	-243.16	1,617.09	7,812.56	7,731.35	81.21	96.200	
5,000.00	4,990.28	20,686.00	12,509.89	15.45	123.99	-130.185	-243.16	1,617.09	7,716.08	7,634.66	81.42	94.767	
5,100.00	5,089.99	20,686.00	12,509.89	15.81	123.99	-130.185	-243.16	1,617.09	7,619.70	7,538.06	81.64	93.336	
5,200.00	5,189.70	20,686.00	12,509.89	16.16	123.99	-130.185	-243.16	1,617.09	7,523.40	7,441.54	81.86	91.908	
5,300.00	5,289.41	20,686.00	12,509.89	16.52	123.99	-130.185	-243.16	1,617.09	7,427.21	7,345.12	82.08	90.483	
5,400.00	5,389.12	20,686.00	12,509.89	16.88	123.99	-130.185	-243.16	1,617.09	7,331.11	7,248.80	82.32	89.060	
5,500.00	5,488.83	20,686.00	12,509.89	17.24	123.99	-130.185	-243.16	1,617.09	7,235.12	7,152.57	82.55	87.641	
5,600.00	5,588.54	20,686.00	12,509.89	17.59	123.99	-130.185	-243.16	1,617.09	7,139.25	7,056.45	82.80	86.224	
5,700.00	5,688.25	20,686.00	12,509.89	17.95	123.99	-130.185	-243.16	1,617.09	7,043.48	6,960.43	83.05	84.811	
5,800.00	5,787.96	20,686.00	12,509.89	18.32	123.99	-130.185	-243.16	1,617.09	6,947.84	6,864.53	83.31	83.400	
5,900.00	5,887.67	20,686.00	12,509.89	18.68	123.99	-130.185	-243.16	1,617.09	6,852.32	6,768.75	83.57	81.994	
6,000.00	5,987.38	20,686.00	12,509.89	19.04	123.99	-130.185	-243.16	1,617.09	6,756.93	6,673.09	83.84	80.590	
6,100.00	6,087.09	20,686.00	12,509.89	19.40	123.99	-130.185	-243.16	1,617.09	6,661.68	6,577.55	84.12	79.191	
6,200.00	6,186.80	20,686.00	12,509.89	19.76	123.99	-130.185	-243.16	1,617.09	6,566.56	6,482.15	84.41	77.795	
6,300.00	6,286.51	20,686.00	12,509.89	20.13	123.99	-130.185	-243.16	1,617.09	6,471.60	6,386.89	84.70	76.403	
6,400.00	6,386.22	20,686.00	12,509.89	20.49	123.99	-130.185	-243.16	1,617.09	6,376.78	6,291.78	85.01	75.015	
6,500.00	6,485.93	20,686.00	12,509.89	20.86	123.99	-130.185	-243.16	1,617.09	6,282.13	6,196.81	85.32	73.631	
6,600.00	6,585.64	20,686.00	12,509.89	21.22	123.99	-130.185	-243.16	1,617.09	6,187.65	6,102.01	85.64	72.251	
6,700.00	6,685.35	20,686.00	12,509.89	21.59	123.99	-130.185	-243.16	1,617.09	6,093.34	6,007.37	85.97	70.876	
6,800.00	6,785.06	20,686.00	12,509.89	21.95	123.99	-130.185	-243.16	1,617.09	5,999.22	5,912.91	86.31	69.505	
6,900.00	6,884.77	20,686.00	12,509.89	22.32	123.99	-130.185	-243.16	1,617.09	5,905.29	5,818.62	86.67	68.139	
7,000.00	6,984.48	20,686.00	12,509.89	22.68	123.99	-130.185	-243.16	1,617.09	5,811.56	5,724.53	87.03	66.777	
7,100.00	7,084.19	20,686.00	12,509.89	23.05	123.99	-130.185	-243.16	1,617.09	5,718.05	5,630.64	87.40	65.421	
7,200.00	7,183.90	20,686.00	12,509.89	23.42	123.99	-130.185	-243.16	1,617.09	5,624.76	5,536.97	87.79	64.069	
7,300.00	7,283.61	20,714.93	12,510.35	23.78	124.39	-129.397	-272.08	1,617.29	5,531.52	5,443.11	88.41	62.566	
7,400.00	7,383.32	20,718.73	12,510.44	24.15	124.44	-129.293	-275.89	1,617.30	5,438.66	5,349.81	88.85	61.210	
7,500.00	7,483.03	20,722.66	12,510.53	24.52	124.49	-129.186	-279.81	1,617.30	5,346.05	5,256.74	89.31	59.859	
7,600.00	7,582.74	20,726.72	12,510.63	24.89	124.55	-129.075	-283.87	1,617.30	5,253.70	5,163.92	89.79	58.514	
7,700.00	7,682.45	20,730.91	12,510.74	25.25	124.61	-128.960	-288.06	1,617.29	5,161.63	5,071.36	90.28	57.175	
7,800.00	7,782.16	20,735.25	12,510.87	25.62	124.67	-128.841	-292.40	1,617.28	5,069.86	4,979.07	90.79	55.843	
7,900.00	7,881.87	20,739.74	12,511.00	25.99	124.73	-128.719	-296.89	1,617.26	4,978.39	4,887.07	91.32	54.518	
8,000.00	7,981.58	20,744.39	12,511.15	26.36	124.79	-128.591	-301.53	1,617.24	4,887.25	4,795.38	91.87	53.200	
8,100.00	8,081.29	20,749.20	12,511.31	26.73	124.86	-128.459	-306.34	1,617.21	4,796.45	4,704.01	92.44	51.889	
8,200.00	8,181.00	20,754.19	12,511.48	27.10	124.93	-128.323	-311.33	1,617.16	4,706.01	4,612.98	93.03	50.585	
8,300.00	8,280.71	20,781.00	12,512.58	27.47	125.30	-127.586	-338.11	1,616.82	4,616.06	4,522.25	93.80	49.211	
8,400.00	8,380.42	20,781.00	12,512.58	27.84	125.30	-127.586	-338.11	1,616.82	4,526.36	4,431.95	94.41	47.945	
8,500.00	8,480.13	20,781.00	12,512.58	28.21	125.30	-127.586	-338.11	1,616.82	4,437.11	4,342.07	95.04	46.687	
8,600.00	8,579.84	20,781.00	12,512.58	28.58	125.30	-127.586	-338.11	1,616.82	4,348.32	4,252.62	95.70	45.437	
8,700.00	8,679.55	20,783.16	12,512.68	28.95	125.33	-127.527	-340.27	1,616.78	4,260.03	4,163.63	96.40	44.189	
8,800.00	8,779.26	20,794.62	12,513.21	29.32	125.49	-127.211	-351.72	1,616.59	4,172.25	4,075.05	97.20	42.923	
8,900.00	8,878.97	20,806.09	12,513.73	29.69	125.65	-126.895	-363.17	1,616.39	4,085.00	3,986.96	98.03	41.669	
9,000.00	8,978.68	20,817.55	12,514.26	30.06	125.81	-126.577	-374.62	1,616.20	3,998.31	3,899.41	98.90	40.428	
9,100.00	9,078.39	20,829.01	12,514.78	30.43	125.97	-126.259	-386.07	1,616.00	3,912.22	3,812.42	99.80	39.200	
9,200.00	9,178.10	20,840.48	12,515.31	30.80	126.13	-125.941	-397.52	1,615.81	3,826.78	3,726.03	100.75	37.985	
9,300.00	9,277.81	20,851.94	12,515.84	31.17	126.29	-125.621	-408.97	1,615.62	3,742.02	3,640.29	101.73	36.784	
9,400.00	9,377.52	20,863.40	12,516.36	31.54	126.45	-125.301	-420.42	1,615.42	3,658.00	3,555.24	102.76	35.598	
9,500.00	9,477.23	20,874.87	12,516.89	31.91	126.61	-124.981	-431.87	1,615.23	3,574.76	3,470.92	103.84	34.427	
9,600.00	9,576.94	20,886.33	12,517.41	32.29	126.76	-124.659	-443.32	1,615.04	3,492.36	3,387.40	104.96	33.273	
9,700.00	9,676.65	20,897.79	12,517.94	32.66	126.92	-124.337	-454.77	1,614.84	3,410.87	3,304.73	106.14	32.135	
9,800.00	9,776.36	20,909.25	12,518.47	33.03	127.08	-124.015	-466.21	1,614.65	3,330.34	3,222.97	107.38	31.015	
9,900.00	9,876.07	20,920.72	12,518.99	33.40	127.24	-123.692	-477.66	1,614.45	3,250.86	3,142.19	108.67	29.914	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 404H - OH / 67732 - Surveys (H&P 474)													Offset Site Error: 0.00 usft
Survey Program: 174-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,000.00	9,975.78	20,932.18	12,519.52	33.77	127.40	-123.368	-489.11	1,614.26	3,172.50	3,062.47	110.03	28.833	
10,100.00	10,075.49	20,943.64	12,520.04	34.14	127.56	-123.044	-500.56	1,614.07	3,095.34	2,983.89	111.45	27.773	
10,200.00	10,175.20	20,955.11	12,520.57	34.52	127.72	-122.720	-512.01	1,613.87	3,019.48	2,906.54	112.94	26.736	
10,300.00	10,274.91	20,964.00	12,520.98	34.89	127.84	-122.468	-520.89	1,613.72	2,945.01	2,830.53	114.48	25.725	
10,400.00	10,374.62	20,964.00	12,520.98	35.26	127.84	-122.468	-520.89	1,613.72	2,872.09	2,756.03	116.06	24.747	
10,500.00	10,474.33	20,964.00	12,520.98	35.63	127.84	-122.468	-520.89	1,613.72	2,800.83	2,683.13	117.71	23.795	
10,600.00	10,574.04	20,964.00	12,520.98	36.01	127.84	-122.468	-520.89	1,613.72	2,731.38	2,611.95	119.44	22.869	
10,700.00	10,673.75	20,964.00	12,520.98	36.38	127.84	-122.468	-520.89	1,613.72	2,663.88	2,542.64	121.24	21.972	
10,800.00	10,773.46	20,964.00	12,520.98	36.75	127.84	-122.468	-520.89	1,613.72	2,598.47	2,475.35	123.12	21.105	
10,900.00	10,873.18	20,964.00	12,520.98	37.12	127.84	-122.468	-520.89	1,613.72	2,535.31	2,410.24	125.07	20.271	
11,000.00	10,972.89	20,964.00	12,520.98	37.50	127.84	-122.468	-520.89	1,613.72	2,474.59	2,347.50	127.09	19.471	
11,100.00	11,072.60	20,964.00	12,520.98	37.87	127.84	-122.468	-520.89	1,613.72	2,416.48	2,287.30	129.18	18.707	
11,200.00	11,172.31	20,964.00	12,520.98	38.24	127.84	-122.468	-520.89	1,613.72	2,361.18	2,229.87	131.31	17.982	
11,300.00	11,272.02	20,964.00	12,520.98	38.62	127.84	-122.468	-520.89	1,613.72	2,308.88	2,175.40	133.49	17.297	
11,381.30	11,353.08	20,964.00	12,520.98	38.92	127.84	-122.468	-520.89	1,613.72	2,268.73	2,133.46	135.27	16.771	
11,400.00	11,371.73	20,964.00	12,520.98	38.98	127.84	-122.295	-520.89	1,613.72	2,259.78	2,124.09	135.68	16.655	
11,500.00	11,471.59	20,964.00	12,520.98	39.34	127.84	-121.396	-520.89	1,613.72	2,212.99	2,075.13	137.86	16.052	
11,599.47	11,571.04	20,964.00	12,520.98	39.49	127.84	85.441	-520.89	1,613.72	2,168.39	2,028.50	139.89	15.501	
11,600.00	11,571.57	20,964.00	12,520.98	39.49	127.84	85.441	-520.89	1,613.72	2,168.16	2,028.26	139.90	15.498	
11,700.00	11,671.57	20,964.00	12,520.98	39.52	127.84	85.441	-520.89	1,613.72	2,126.27	1,984.46	141.81	14.993	
11,800.00	11,771.57	20,964.00	12,520.98	39.52	127.84	85.441	-520.89	1,613.72	2,088.34	1,944.66	143.67	14.535	
11,900.00	11,871.57	20,964.00	12,520.98	39.53	127.84	85.441	-520.89	1,613.72	2,054.57	1,909.12	145.45	14.126	
12,000.00	11,971.57	20,964.00	12,520.98	39.54	127.84	85.441	-520.89	1,613.72	2,025.19	1,878.07	147.12	13.766	
12,099.47	12,071.04	20,964.00	12,520.98	39.54	127.84	85.441	-520.89	1,613.72	2,000.49	1,851.84	148.66	13.457	
12,100.00	12,071.57	20,964.00	12,520.98	39.55	127.84	-94.018	-520.89	1,613.72	2,000.37	1,851.71	148.66	13.456	
12,150.00	12,121.50	20,964.00	12,520.98	39.65	127.84	-95.085	-520.89	1,613.72	1,989.90	1,840.49	149.42	13.318	
12,200.00	12,171.05	20,964.00	12,520.98	39.91	127.84	-95.984	-520.89	1,613.72	1,981.02	1,830.82	150.20	13.189	
12,250.00	12,219.84	20,964.00	12,520.98	40.20	127.84	-96.708	-520.89	1,613.72	1,973.82	1,822.82	151.00	13.072	
12,300.00	12,267.50	20,964.00	12,520.98	40.50	127.84	-97.252	-520.89	1,613.72	1,968.36	1,816.57	151.79	12.967	
12,350.00	12,313.66	20,964.00	12,520.98	40.80	127.84	-97.615	-520.89	1,613.72	1,964.71	1,812.14	152.58	12.877	
12,400.00	12,357.98	20,964.00	12,520.98	41.09	127.84	-97.794	-520.89	1,613.72	1,962.91	1,809.57	153.34	12.801	
12,423.42	12,378.01	20,964.00	12,520.98	41.23	127.84	-97.814	-520.89	1,613.72	1,962.70	1,809.01	153.69	12.770 CC	
12,450.00	12,400.11	20,964.00	12,520.98	41.38	127.84	-97.788	-520.89	1,613.72	1,962.97	1,808.89	154.08	12.740 ES	
12,500.00	12,439.74	20,964.00	12,520.98	41.66	127.84	-97.598	-520.89	1,613.72	1,964.89	1,810.12	154.77	12.696	
12,550.00	12,476.56	20,964.00	12,520.98	41.92	127.84	-97.223	-520.89	1,613.72	1,968.65	1,813.25	155.41	12.668	
12,600.00	12,510.29	20,964.00	12,520.98	42.16	127.84	-96.667	-520.89	1,613.72	1,974.22	1,818.24	155.98	12.657 SF	
12,650.00	12,540.68	20,964.00	12,520.98	42.39	127.84	-95.932	-520.89	1,613.72	1,981.53	1,825.05	156.49	12.663	
12,700.00	12,567.50	20,964.00	12,520.98	42.58	127.84	-95.023	-520.89	1,613.72	1,990.52	1,833.61	156.91	12.686	
12,750.00	12,590.54	20,964.00	12,520.98	42.76	127.84	-93.945	-520.89	1,613.72	2,001.09	1,843.84	157.25	12.726	
12,800.00	12,609.63	20,964.00	12,520.98	42.91	127.84	-92.706	-520.89	1,613.72	2,013.13	1,855.63	157.50	12.782	
12,850.00	12,624.61	20,964.00	12,520.98	43.03	127.84	-91.316	-520.89	1,613.72	2,026.53	1,868.88	157.65	12.854	
12,900.00	12,635.39	20,964.00	12,520.98	43.12	127.84	-89.785	-520.89	1,613.72	2,041.17	1,883.45	157.72	12.942	
12,950.00	12,641.87	20,964.00	12,520.98	43.19	127.84	-88.128	-520.89	1,613.72	2,056.90	1,899.21	157.69	13.044	
12,999.47	12,644.00	20,964.00	12,520.98	43.23	127.84	-86.380	-520.89	1,613.72	2,073.40	1,915.82	157.57	13.158	
13,000.00	12,644.00	20,964.00	12,520.98	43.24	127.84	-86.380	-520.89	1,613.72	2,073.58	1,916.00	157.57	13.159	
13,100.00	12,644.00	20,964.00	12,520.98	43.31	127.84	-86.380	-520.89	1,613.72	2,109.89	1,952.77	157.12	13.428	
13,200.00	12,644.00	20,964.00	12,520.98	43.39	127.84	-86.380	-520.89	1,613.72	2,150.25	1,993.82	156.44	13.745	
13,300.00	12,644.00	20,964.00	12,520.98	43.50	127.84	-86.380	-520.89	1,613.72	2,194.43	2,038.89	155.53	14.109	
13,400.00	12,644.00	20,964.00	12,520.98	43.63	127.84	-86.380	-520.89	1,613.72	2,242.20	2,087.75	154.45	14.517	
13,500.00	12,644.00	20,964.00	12,520.98	43.78	127.84	-86.380	-520.89	1,613.72	2,293.33	2,140.12	153.22	14.968	
13,600.00	12,644.00	20,964.00	12,520.98	43.96	127.84	-86.380	-520.89	1,613.72	2,347.62	2,195.76	151.85	15.460	
13,700.00	12,644.00	20,964.00	12,520.98	44.18	127.84	-86.380	-520.89	1,613.72	2,404.84	2,254.44	150.39	15.990	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 404H - OH / 67732 - Surveys (H&P 474)													Offset Site Error: 0.00 usft	
Survey Program: 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	
13,800.00	12,644.00	20,964.00	12,520.98	44.44	127.84	-86.380	-520.89	1,613.72	2,464.78	2,315.93	148.86	16.558		
13,900.00	12,644.00	20,964.00	12,520.98	44.74	127.84	-86.380	-520.89	1,613.72	2,527.27	2,380.01	147.26	17.161		
14,000.00	12,644.00	20,964.00	12,520.98	45.11	127.84	-86.380	-520.89	1,613.72	2,592.11	2,446.47	145.63	17.799		
14,100.00	12,644.00	20,964.00	12,520.98	45.54	127.84	-86.380	-520.89	1,613.72	2,659.13	2,515.14	143.98	18.468		
14,200.00	12,644.00	20,964.00	12,520.98	46.05	127.84	-86.380	-520.89	1,613.72	2,728.16	2,585.84	142.33	19.168		
14,300.00	12,644.00	20,964.00	12,520.98	46.65	127.84	-86.380	-520.89	1,613.72	2,799.07	2,658.40	140.67	19.898		
14,400.00	12,644.00	20,964.00	12,520.98	47.33	127.84	-86.380	-520.89	1,613.72	2,871.71	2,732.69	139.03	20.656		
14,500.00	12,644.00	20,964.00	12,520.98	48.09	127.84	-86.380	-520.89	1,613.72	2,945.96	2,808.56	137.40	21.440		
14,600.00	12,644.00	20,964.00	12,520.98	48.94	127.84	-86.380	-520.89	1,613.72	3,021.69	2,885.88	135.81	22.250		
14,700.00	12,644.00	20,964.00	12,520.98	49.86	127.84	-86.380	-520.89	1,613.72	3,098.80	2,964.55	134.24	23.084		
14,800.00	12,644.00	20,964.00	12,520.98	50.85	127.84	-86.380	-520.89	1,613.72	3,177.18	3,044.47	132.71	23.941		
14,900.00	12,644.00	20,964.00	12,520.98	51.89	127.84	-86.380	-520.89	1,613.72	3,256.75	3,125.53	131.22	24.820		
15,000.00	12,644.00	20,964.00	12,520.98	52.99	127.84	-86.380	-520.89	1,613.72	3,337.41	3,207.65	129.76	25.720		
15,100.00	12,644.00	20,964.00	12,520.98	54.12	127.84	-86.380	-520.89	1,613.72	3,419.10	3,290.75	128.35	26.639		
15,200.00	12,644.00	20,964.00	12,520.98	55.29	127.84	-86.380	-520.89	1,613.72	3,501.74	3,374.76	126.98	27.578		
15,300.00	12,644.00	20,964.00	12,520.98	56.49	127.84	-86.380	-520.89	1,613.72	3,585.26	3,459.61	125.65	28.534		
15,400.00	12,644.00	20,964.00	12,520.98	57.72	127.84	-86.380	-520.89	1,613.72	3,669.61	3,545.25	124.36	29.507		
15,500.00	12,644.00	20,964.00	12,520.98	58.96	127.84	-86.380	-520.89	1,613.72	3,754.73	3,631.61	123.12	30.497		
15,600.00	12,644.00	20,964.00	12,520.98	60.22	127.84	-86.380	-520.89	1,613.72	3,840.56	3,718.64	121.92	31.502		
15,700.00	12,644.00	20,964.00	12,520.98	61.50	127.84	-86.380	-520.89	1,613.72	3,927.06	3,806.31	120.75	32.521		
15,800.00	12,644.00	20,964.00	12,520.98	62.79	127.84	-86.380	-520.89	1,613.72	4,014.19	3,894.56	119.63	33.555		
15,900.00	12,644.00	20,964.00	12,520.98	64.09	127.84	-86.380	-520.89	1,613.72	4,101.91	3,983.36	118.55	34.601		
16,000.00	12,644.00	20,964.00	12,520.98	65.40	127.84	-86.380	-520.89	1,613.72	4,190.18	4,072.68	117.50	35.660		
16,100.00	12,644.00	20,964.00	12,520.98	66.72	127.84	-86.380	-520.89	1,613.72	4,278.97	4,162.47	116.50	36.730		
16,200.00	12,644.00	20,964.00	12,520.98	68.04	127.84	-86.380	-520.89	1,613.72	4,368.24	4,252.71	115.53	37.812		
16,300.00	12,644.00	20,964.00	12,520.98	69.38	127.84	-86.380	-520.89	1,613.72	4,457.96	4,343.37	114.59	38.904		
16,400.00	12,644.00	20,964.00	12,520.98	70.72	127.84	-86.380	-520.89	1,613.72	4,548.11	4,434.43	113.69	40.006		
16,500.00	12,644.00	20,964.00	12,520.98	72.07	127.84	-86.380	-520.89	1,613.72	4,638.67	4,525.86	112.81	41.118		
16,600.00	12,644.00	20,964.00	12,520.98	73.42	127.84	-86.380	-520.89	1,613.72	4,729.61	4,617.63	111.98	42.238		
16,700.00	12,644.00	20,964.00	12,520.98	74.77	127.84	-86.380	-520.89	1,613.72	4,820.91	4,709.74	111.17	43.366		
16,800.00	12,644.00	20,964.00	12,520.98	76.13	127.84	-86.380	-520.89	1,613.72	4,912.54	4,802.15	110.39	44.503		
16,900.00	12,644.00	20,964.00	12,520.98	77.49	127.84	-86.380	-520.89	1,613.72	5,004.50	4,894.86	109.64	45.647		
17,000.00	12,644.00	20,964.00	12,520.98	78.86	127.84	-86.380	-520.89	1,613.72	5,096.76	4,987.84	108.91	46.797		
17,100.00	12,644.00	20,964.00	12,520.98	80.23	127.84	-86.380	-520.89	1,613.72	5,189.30	5,081.09	108.21	47.954		
17,200.00	12,644.00	20,964.00	12,520.98	81.60	127.84	-86.380	-520.89	1,613.72	5,282.12	5,174.58	107.54	49.117		
17,300.00	12,644.00	20,964.00	12,520.98	82.98	127.84	-86.380	-520.89	1,613.72	5,375.19	5,268.30	106.89	50.286		
17,400.00	12,644.00	20,964.00	12,520.98	84.36	127.84	-86.380	-520.89	1,613.72	5,468.51	5,362.25	106.27	51.460		
17,500.00	12,644.00	20,964.00	12,520.98	85.74	127.84	-86.380	-520.89	1,613.72	5,562.06	5,456.40	105.67	52.639		
17,600.00	12,644.00	20,964.00	12,520.98	87.12	127.84	-86.380	-520.89	1,613.72	5,655.84	5,550.75	105.08	53.822		
17,700.00	12,644.00	20,964.00	12,520.98	88.51	127.84	-86.380	-520.89	1,613.72	5,749.82	5,645.30	104.52	55.009		
17,800.00	12,644.00	20,964.00	12,520.98	89.89	127.84	-86.380	-520.89	1,613.72	5,844.00	5,740.02	103.98	56.201		
17,900.00	12,644.00	20,964.00	12,520.98	91.28	127.84	-86.380	-520.89	1,613.72	5,938.37	5,834.91	103.46	57.395		
18,000.00	12,644.00	20,964.00	12,520.98	92.67	127.84	-86.380	-520.89	1,613.72	6,032.93	5,929.96	102.96	58.593		
18,100.00	12,644.00	20,964.00	12,520.98	94.07	127.84	-86.380	-520.89	1,613.72	6,127.65	6,025.18	102.48	59.794		
18,200.00	12,644.00	20,964.00	12,520.98	95.46	127.84	-86.380	-520.89	1,613.72	6,222.55	6,120.53	102.01	60.998		
18,300.00	12,644.00	20,964.00	12,520.98	96.85	127.84	-86.380	-520.89	1,613.72	6,317.59	6,216.03	101.56	62.204		
18,400.00	12,644.00	20,964.00	12,520.98	98.25	127.84	-86.380	-520.89	1,613.72	6,412.79	6,311.67	101.13	63.412		
18,500.00	12,644.00	20,964.00	12,520.98	99.65	127.84	-86.380	-520.89	1,613.72	6,508.14	6,407.43	100.71	64.622		
18,600.00	12,644.00	20,964.00	12,520.98	101.05	127.84	-86.380	-520.89	1,613.72	6,603.62	6,503.31	100.31	65.833		
18,700.00	12,644.00	20,964.00	12,520.98	102.45	127.84	-86.380	-520.89	1,613.72	6,699.23	6,599.31	99.92	67.046		
18,800.00	12,644.00	20,964.00	12,520.98	103.85	127.84	-86.380	-520.89	1,613.72	6,794.97	6,695.43	99.55	68.260		
18,900.00	12,644.00	20,964.00	12,520.98	105.25	127.84	-86.380	-520.89	1,613.72	6,890.83	6,791.65	99.18	69.475		

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 404H - OH / 67732 - Surveys (H&P 474)												Offset Site Error: 0.00 usft		
Survey Program: 174-MWD+HRGM									Rule Assigned:				Offset Well Error: 1.00 usft	
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	12,644.00	20,964.00	12,520.98	106.65	127.84	-86.380	-520.89	1,613.72	6,986.81	6,887.97	98.84	70.690		
19,100.00	12,644.00	20,964.00	12,520.98	108.06	127.84	-86.380	-520.89	1,613.72	7,082.90	6,984.40	98.50	71.907		
19,200.00	12,644.00	20,964.00	12,520.98	109.46	127.84	-86.380	-520.89	1,613.72	7,179.09	7,080.91	98.18	73.123		
19,300.00	12,644.00	20,964.00	12,520.98	110.87	127.84	-86.380	-520.89	1,613.72	7,275.39	7,177.52	97.87	74.340		
19,400.00	12,644.00	20,964.00	12,520.98	112.28	127.84	-86.380	-520.89	1,613.72	7,371.79	7,274.22	97.57	75.556		
19,500.00	12,644.00	20,964.00	12,520.98	113.68	127.84	-86.380	-520.89	1,613.72	7,468.28	7,371.00	97.28	76.773		
19,600.00	12,644.00	20,964.00	12,520.98	115.09	127.84	-86.380	-520.89	1,613.72	7,564.86	7,467.86	97.00	77.989		
19,700.00	12,644.00	20,964.00	12,520.98	116.50	127.84	-86.380	-520.89	1,613.72	7,661.53	7,564.80	96.73	79.204		
19,800.00	12,644.00	20,964.00	12,520.98	117.91	127.84	-86.380	-520.89	1,613.72	7,758.28	7,661.81	96.47	80.419		
19,900.00	12,644.00	20,964.00	12,520.98	119.32	127.84	-86.380	-520.89	1,613.72	7,855.12	7,758.89	96.22	81.633		
20,000.00	12,644.00	20,964.00	12,520.98	120.73	127.84	-86.380	-520.89	1,613.72	7,952.03	7,856.05	95.99	82.846		
20,100.00	12,644.00	20,964.00	12,520.98	122.15	127.84	-86.380	-520.89	1,613.72	8,049.02	7,953.27	95.76	84.058		
20,200.00	12,644.00	20,964.00	12,520.98	123.56	127.84	-86.380	-520.89	1,613.72	8,146.08	8,050.55	95.53	85.269		
20,300.00	12,644.00	20,964.00	12,520.98	124.97	127.84	-86.380	-520.89	1,613.72	8,243.22	8,147.89	95.32	86.478		
20,400.00	12,644.00	20,964.00	12,520.98	126.38	127.84	-86.380	-520.89	1,613.72	8,340.42	8,245.30	95.12	87.686		
20,500.00	12,644.00	20,964.00	12,520.98	127.80	127.84	-86.380	-520.89	1,613.72	8,437.68	8,342.76	94.92	88.892		
20,600.00	12,644.00	20,964.00	12,520.98	129.21	127.84	-86.380	-520.89	1,613.72	8,535.01	8,440.28	94.73	90.097		
20,700.00	12,644.00	20,964.00	12,520.98	130.63	127.84	-86.380	-520.89	1,613.72	8,632.40	8,537.85	94.55	91.300		
20,800.00	12,644.00	20,964.00	12,520.98	132.04	127.84	-86.380	-520.89	1,613.72	8,729.85	8,635.47	94.38	92.500		
20,900.00	12,644.00	20,964.00	12,520.98	133.46	127.84	-86.380	-520.89	1,613.72	8,827.35	8,733.14	94.21	93.699		
21,000.00	12,644.00	20,964.00	12,520.98	134.88	127.84	-86.380	-520.89	1,613.72	8,924.91	8,830.87	94.05	94.896		
21,100.00	12,644.00	20,964.00	12,520.98	136.29	127.84	-86.380	-520.89	1,613.72	9,022.53	8,928.63	93.90	96.090		
21,200.00	12,644.00	20,964.00	12,520.98	137.71	127.84	-86.380	-520.89	1,613.72	9,120.20	9,026.45	93.75	97.282		
21,300.00	12,644.00	20,964.00	12,520.98	139.13	127.84	-86.380	-520.89	1,613.72	9,217.91	9,124.30	93.61	98.472		
21,400.00	12,644.00	20,964.00	12,520.98	140.54	127.84	-86.380	-520.89	1,613.72	9,315.68	9,222.20	93.48	99.659		
21,500.00	12,644.00	20,964.00	12,520.98	141.96	127.84	-86.380	-520.89	1,613.72	9,413.49	9,320.14	93.35	100.844		
21,600.00	12,644.00	20,964.00	12,520.98	143.38	127.84	-86.380	-520.89	1,613.72	9,511.35	9,418.12	93.22	102.026		
21,700.00	12,644.00	20,964.00	12,520.98	144.80	127.84	-86.380	-520.89	1,613.72	9,609.25	9,516.14	93.11	103.205		
21,800.00	12,644.00	20,964.00	12,520.98	146.22	127.84	-86.380	-520.89	1,613.72	9,707.19	9,614.19	93.00	104.382		
21,900.00	12,644.00	20,964.00	12,520.98	147.64	127.84	-86.380	-520.89	1,613.72	9,805.18	9,712.28	92.89	105.555		
22,000.00	12,644.00	20,964.00	12,520.98	149.06	127.84	-86.380	-520.89	1,613.72	9,903.20	9,810.41	92.79	106.726		
22,100.00	12,644.00	20,964.00	12,520.98	150.48	127.84	-86.380	-520.89	1,613.72	10,001.27	9,908.57	92.70	107.894		
22,199.47	12,644.00	20,964.00	12,520.98	151.89	127.84	-86.380	-520.89	1,613.72	10,098.85	10,006.25	92.61	109.052		

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 434H - OH / 67733 - Surveys (H&P 474)													Offset Site Error: 0.00 usft
Survey Program: 174-MWD+HRGM													Offset Well Error: 1.00 usft
Reference													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	67.63	24.63	1.00	1.08	6.674	8,042.79	941.09	8,097.70				
100.00	100.00	198.31	155.27	1.08	1.57	6.654	8,042.38	938.16	8,097.10	8,094.45	2.65	3,055.320	
200.00	200.00	273.51	230.46	1.60	2.06	6.646	8,042.10	937.09	8,096.57	8,092.92	3.65	2,219.365	
300.00	300.00	365.14	322.09	2.01	2.62	6.648	8,041.81	937.27	8,096.28	8,091.70	4.58	1,767.343	
400.00	400.00	453.90	410.85	2.35	3.05	6.652	8,041.53	937.82	8,096.04	8,090.74	5.30	1,528.445	
445.08	445.08	488.13	445.08	2.49	3.13	6.653	8,041.48	938.01	8,096.01	8,090.50	5.51	1,469.159	
500.00	500.00	541.27	498.22	2.65	3.24	6.655	8,041.48	938.25	8,096.03	8,090.24	5.79	1,398.117	
595.86	595.86	638.91	595.86	2.92	3.44	6.658	8,041.38	938.69	8,095.99	8,089.74	6.25	1,296.347	
600.00	600.00	642.23	599.17	2.93	3.45	6.658	8,041.38	938.71	8,095.99	8,089.72	6.26	1,292.679	
700.00	700.00	730.59	687.54	3.18	3.62	6.662	8,041.42	939.30	8,096.10	8,089.42	6.68	1,211.959	
800.00	800.00	818.11	775.05	3.41	3.78	6.667	8,041.49	940.03	8,096.28	8,089.21	7.07	1,145.234	
900.00	900.00	897.66	854.60	3.64	3.92	6.672	8,041.80	940.66	8,096.76	8,089.34	7.42	1,090.712	
1,000.00	1,000.00	1,008.51	965.45	3.85	4.10	6.676	8,042.28	941.32	8,097.25	8,089.44	7.82	1,036.010	
1,100.00	1,100.00	1,132.86	1,089.80	4.05	4.30	6.680	8,042.59	941.91	8,097.56	8,089.35	8.22	985.252	
1,200.00	1,200.00	1,241.62	1,198.56	4.24	4.45	6.681	8,042.60	942.15	8,097.59	8,089.05	8.55	947.264	
1,300.00	1,300.00	1,334.33	1,291.26	4.43	4.60	6.683	8,042.64	942.32	8,097.66	8,088.78	8.88	912.041	
1,400.00	1,400.00	1,428.81	1,385.75	4.61	4.76	6.684	8,042.75	942.59	8,097.81	8,088.60	9.21	879.472	
1,500.00	1,500.00	1,534.00	1,490.93	4.78	4.92	6.686	8,042.88	942.76	8,097.95	8,088.40	9.55	848.368	
1,600.00	1,599.98	1,635.20	1,592.13	4.98	5.05	160.697	8,042.97	942.80	8,099.69	8,089.81	9.88	819.920	
1,700.00	1,699.84	1,735.08	1,692.02	5.60	5.15	160.676	8,043.09	942.73	8,104.74	8,094.15	10.59	765.642	
1,718.18	1,717.96	1,753.89	1,710.83	5.62	5.17	160.670	8,043.11	942.70	8,106.00	8,095.38	10.62	763.150	
1,800.00	1,799.55	1,836.68	1,793.61	5.72	5.23	160.684	8,043.19	942.51	8,111.94	8,101.12	10.82	749.426	
1,900.00	1,899.26	1,939.57	1,896.50	5.89	5.33	160.701	8,043.27	942.40	8,119.19	8,108.07	11.12	730.327	
2,000.00	1,998.97	2,054.02	2,010.95	6.09	5.54	160.727	8,043.13	943.18	8,126.33	8,114.84	11.50	706.843	
2,100.00	2,098.68	2,177.04	2,133.88	6.30	5.99	160.780	8,042.25	947.50	8,133.22	8,121.30	11.92	682.250	
2,200.00	2,198.39	2,279.90	2,236.59	6.53	6.29	160.838	8,041.09	953.01	8,139.92	8,127.65	12.27	663.402	
2,300.00	2,298.10	2,365.33	2,321.87	6.77	6.49	160.887	8,040.19	957.83	8,146.74	8,134.13	12.61	646.066	
2,400.00	2,397.81	2,445.00	2,401.42	7.02	6.69	160.933	8,039.43	962.36	8,153.69	8,140.74	12.95	629.451	
2,500.00	2,497.52	2,504.54	2,460.86	7.28	6.84	160.968	8,039.08	965.75	8,161.04	8,147.75	13.28	614.403	
2,600.00	2,597.23	2,540.00	2,496.26	7.55	6.93	160.988	8,039.06	967.76	8,169.00	8,155.42	13.59	601.208	
2,700.00	2,696.94	2,614.49	2,570.63	7.83	7.13	161.030	8,039.44	971.99	8,177.44	8,163.49	13.96	585.854	
2,800.00	2,796.65	2,704.32	2,660.30	8.12	7.37	161.082	8,040.29	977.34	8,186.32	8,171.96	14.36	570.176	
2,900.00	2,896.36	2,800.39	2,756.15	8.42	7.65	161.142	8,041.11	983.70	8,195.18	8,180.41	14.78	554.618	
3,000.00	2,996.07	2,909.08	2,864.60	8.72	7.96	161.210	8,042.04	990.84	8,204.06	8,188.84	15.22	539.033	
3,100.00	3,095.78	2,998.58	2,953.96	9.03	8.22	161.259	8,042.89	995.79	8,212.92	8,197.28	15.64	525.096	
3,200.00	3,195.49	3,084.84	3,040.08	9.34	8.47	161.306	8,043.85	1,000.51	8,221.93	8,205.87	16.06	511.879	
3,300.00	3,295.20	3,169.10	3,124.20	9.66	8.72	161.353	8,044.91	1,005.36	8,231.11	8,214.62	16.49	499.216	
3,400.00	3,394.91	3,246.46	3,201.42	9.98	8.95	161.396	8,046.02	1,009.87	8,240.52	8,223.61	16.91	487.333	
3,500.00	3,494.62	3,515.11	3,469.60	10.30	9.85	161.547	8,048.29	1,025.43	8,249.78	8,232.11	17.67	466.953	
3,600.00	3,594.33	3,606.44	3,560.86	10.63	10.38	161.586	8,048.15	1,028.87	8,257.35	8,239.08	18.27	451.944	
3,700.00	3,694.04	3,697.36	3,651.77	10.96	10.86	161.611	8,048.37	1,030.35	8,265.03	8,246.18	18.85	438.443	
3,800.00	3,793.75	3,948.97	3,903.36	11.29	11.21	161.664	8,047.86	1,031.86	8,272.56	8,253.17	19.39	426.550	
3,900.00	3,893.47	4,026.18	3,980.56	11.63	11.16	161.671	8,046.99	1,030.99	8,278.54	8,258.80	19.73	419.491	
4,000.00	3,993.18	4,118.79	4,073.16	11.97	11.10	161.682	8,046.22	1,030.23	8,284.83	8,264.74	20.09	412.461	
4,100.00	4,092.89	4,220.50	4,174.87	12.31	11.12	161.694	8,045.32	1,029.33	8,291.05	8,270.53	20.53	403.873	
4,200.00	4,192.60	4,316.47	4,270.83	12.65	11.17	161.707	8,044.46	1,028.76	8,297.32	8,276.31	21.01	394.966	
4,300.00	4,292.31	4,425.19	4,379.54	13.00	11.33	161.723	8,043.43	1,028.43	8,303.57	8,282.01	21.56	385.196	
4,400.00	4,392.02	4,538.06	4,492.41	13.34	11.51	161.742	8,042.16	1,028.33	8,309.67	8,287.52	22.15	375.172	
4,500.00	4,491.73	20,848.85	12,690.69	13.69	121.45	-136.281	-255.34	988.13	8,270.58	8,188.33	82.24	100.561	
4,600.00	4,591.44	20,853.80	12,690.65	14.04	121.52	-136.097	-260.29	988.19	8,172.14	8,089.67	82.47	99.093	
4,700.00	4,691.15	20,858.74	12,690.61	14.39	121.59	-135.912	-265.23	988.24	8,073.73	7,991.03	82.70	97.628	
4,800.00	4,790.86	20,863.68	12,690.57	14.74	121.66	-135.727	-270.17	988.30	7,975.36	7,892.43	82.93	96.167	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 434H - OH / 67733 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 174-MWD+HRGM												Offset Well Error:	1.00 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,900.00	4,890.57	20,868.62	12,690.53	15.10	121.73	-135.541	-275.11	988.36	7,877.03	7,793.86	83.17	94.711	
5,000.00	4,990.28	20,877.00	12,690.46	15.45	121.85	-135.226	-283.49	988.48	7,778.74	7,695.30	83.44	93.231	
5,100.00	5,089.99	20,877.00	12,690.46	15.81	121.85	-135.226	-283.49	988.48	7,680.48	7,596.84	83.65	91.822	
5,200.00	5,189.70	20,877.00	12,690.46	16.16	121.85	-135.226	-283.49	988.48	7,582.27	7,498.41	83.86	90.415	
5,300.00	5,289.41	20,877.00	12,690.46	16.52	121.85	-135.226	-283.49	988.48	7,484.11	7,400.03	84.08	89.012	
5,400.00	5,389.12	20,877.00	12,690.46	16.88	121.85	-135.226	-283.49	988.48	7,386.00	7,301.70	84.30	87.612	
5,500.00	5,488.83	20,877.00	12,690.46	17.24	121.85	-135.226	-283.49	988.48	7,287.94	7,203.41	84.53	86.215	
5,600.00	5,588.54	20,877.00	12,690.46	17.59	121.85	-135.226	-283.49	988.48	7,189.93	7,105.17	84.77	84.822	
5,700.00	5,688.25	20,877.00	12,690.46	17.95	121.85	-135.226	-283.49	988.48	7,091.98	7,006.98	85.00	83.432	
5,800.00	5,787.96	20,877.00	12,690.46	18.32	121.85	-135.226	-283.49	988.48	6,994.09	6,908.84	85.25	82.046	
5,900.00	5,887.67	20,877.00	12,690.46	18.68	121.85	-135.226	-283.49	988.48	6,896.25	6,810.76	85.49	80.663	
6,000.00	5,987.38	20,877.00	12,690.46	19.04	121.85	-135.226	-283.49	988.48	6,798.48	6,712.74	85.75	79.285	
6,100.00	6,087.09	20,877.00	12,690.46	19.40	121.85	-135.226	-283.49	988.48	6,700.78	6,614.77	86.01	77.910	
6,200.00	6,186.80	20,877.00	12,690.46	19.76	121.85	-135.226	-283.49	988.48	6,603.14	6,516.87	86.27	76.540	
6,300.00	6,286.51	20,906.26	12,690.31	20.13	122.26	-134.114	-312.75	988.94	6,505.42	6,418.67	86.75	74.993	
6,400.00	6,386.22	20,908.92	12,690.31	20.49	122.30	-134.012	-315.40	988.98	6,407.89	6,320.85	87.04	73.619	
6,500.00	6,485.93	20,911.61	12,690.30	20.86	122.34	-133.909	-318.10	989.03	6,310.45	6,223.11	87.34	72.250	
6,600.00	6,585.64	20,914.36	12,690.30	21.22	122.38	-133.804	-320.84	989.08	6,213.08	6,125.43	87.65	70.885	
6,700.00	6,685.35	20,917.15	12,690.30	21.59	122.42	-133.696	-323.63	989.13	6,115.79	6,027.83	87.96	69.526	
6,800.00	6,785.06	20,919.99	12,690.31	21.95	122.46	-133.587	-326.47	989.18	6,018.59	5,930.31	88.29	68.171	
6,900.00	6,884.77	20,922.89	12,690.31	22.32	122.50	-133.476	-329.37	989.24	5,921.48	5,832.87	88.62	66.822	
7,000.00	6,984.48	20,925.83	12,690.32	22.68	122.54	-133.362	-332.31	989.29	5,824.47	5,735.51	88.95	65.478	
7,100.00	7,084.19	20,928.83	12,690.33	23.05	122.58	-133.247	-335.31	989.35	5,727.55	5,638.25	89.30	64.139	
7,200.00	7,183.90	20,931.89	12,690.34	23.42	122.62	-133.128	-338.37	989.41	5,630.74	5,541.08	89.65	62.806	
7,300.00	7,283.61	20,935.00	12,690.35	23.78	122.67	-133.008	-341.48	989.47	5,534.03	5,444.02	90.02	61.479	
7,400.00	7,383.32	20,938.18	12,690.36	24.15	122.71	-132.885	-344.65	989.53	5,437.44	5,347.05	90.39	60.157	
7,500.00	7,483.03	20,941.41	12,690.38	24.52	122.76	-132.760	-347.89	989.60	5,340.97	5,250.21	90.77	58.841	
7,600.00	7,582.74	20,944.70	12,690.40	24.89	122.80	-132.632	-351.18	989.67	5,244.63	5,153.47	91.16	57.531	
7,700.00	7,682.45	20,972.00	12,690.66	25.25	123.19	-131.566	-378.47	990.28	5,148.55	5,056.82	91.73	56.126	
7,800.00	7,782.16	20,972.00	12,690.66	25.62	123.19	-131.566	-378.47	990.28	5,052.46	4,960.34	92.12	54.846	
7,900.00	7,881.87	20,972.00	12,690.66	25.99	123.19	-131.566	-378.47	990.28	4,956.52	4,863.99	92.52	53.571	
8,000.00	7,981.58	20,972.00	12,690.66	26.36	123.19	-131.566	-378.47	990.28	4,860.74	4,767.80	92.94	52.302	
8,100.00	8,081.29	20,972.00	12,690.66	26.73	123.19	-131.566	-378.47	990.28	4,765.14	4,671.78	93.36	51.039	
8,200.00	8,181.00	20,972.00	12,690.66	27.10	123.19	-131.566	-378.47	990.28	4,669.72	4,575.92	93.80	49.782	
8,300.00	8,280.71	20,972.00	12,690.66	27.47	123.19	-131.566	-378.47	990.28	4,574.50	4,480.24	94.26	48.532	
8,400.00	8,380.42	20,972.00	12,690.66	27.84	123.19	-131.566	-378.47	990.28	4,479.48	4,384.75	94.73	47.289	
8,500.00	8,480.13	20,972.00	12,690.66	28.21	123.19	-131.566	-378.47	990.28	4,384.69	4,289.48	95.21	46.052	
8,600.00	8,579.84	20,985.90	12,690.84	28.58	123.39	-131.019	-392.37	990.62	4,290.10	4,194.29	95.81	44.775	
8,700.00	8,679.55	20,991.78	12,690.92	28.95	123.47	-130.787	-398.25	990.77	4,195.76	4,099.39	96.38	43.535	
8,800.00	8,779.26	20,997.71	12,691.00	29.32	123.55	-130.553	-404.16	990.92	4,101.68	4,004.72	96.96	42.303	
8,900.00	8,878.97	21,003.67	12,691.09	29.69	123.64	-130.316	-410.12	991.09	4,007.88	3,910.31	97.57	41.079	
9,000.00	8,978.68	21,009.68	12,691.18	30.06	123.72	-130.078	-416.13	991.25	3,914.36	3,816.17	98.19	39.863	
9,100.00	9,078.39	21,015.72	12,691.26	30.43	123.81	-129.837	-422.17	991.43	3,821.17	3,722.32	98.85	38.657	
9,200.00	9,178.10	21,021.82	12,691.36	30.80	123.89	-129.594	-428.26	991.61	3,728.31	3,628.78	99.53	37.460	
9,300.00	9,277.81	21,027.95	12,691.45	31.17	123.98	-129.349	-434.39	991.80	3,635.82	3,535.58	100.24	36.272	
9,400.00	9,377.52	21,034.13	12,691.55	31.54	124.07	-129.102	-440.57	991.99	3,543.72	3,442.74	100.98	35.093	
9,500.00	9,477.23	21,040.36	12,691.65	31.91	124.16	-128.852	-446.79	992.19	3,452.04	3,350.29	101.75	33.925	
9,600.00	9,576.94	21,046.63	12,691.75	32.29	124.24	-128.600	-453.06	992.40	3,360.83	3,258.26	102.57	32.768	
9,700.00	9,676.65	21,052.95	12,691.86	32.66	124.33	-128.346	-459.37	992.61	3,270.11	3,166.70	103.42	31.621	
9,800.00	9,776.36	21,067.00	12,692.10	33.03	124.53	-127.778	-473.42	993.10	3,179.95	3,075.58	104.37	30.469	
9,900.00	9,876.07	21,067.00	12,692.10	33.40	124.53	-127.778	-473.42	993.10	3,090.35	2,985.09	105.26	29.359	
10,000.00	9,975.78	21,073.79	12,692.22	33.77	124.63	-127.504	-480.19	993.34	3,001.39	2,895.14	106.25	28.247	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 434H - OH / 67733 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 174-MWD+HRGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Offset												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,100.00	10,075.49	21,082.26	12,692.37	34.14	124.75	-127.160	-488.66	993.65	2,913.13	2,805.82	107.31	27.146	
10,200.00	10,175.20	21,090.73	12,692.52	34.52	124.87	-126.816	-497.13	993.95	2,825.63	2,717.20	108.43	26.059	
10,300.00	10,274.91	21,099.20	12,692.67	34.89	124.99	-126.472	-505.59	994.26	2,738.96	2,629.34	109.62	24.987	
10,400.00	10,374.62	21,107.67	12,692.82	35.26	125.11	-126.126	-514.06	994.56	2,653.19	2,542.33	110.87	23.931	
10,500.00	10,474.33	21,116.14	12,692.96	35.63	125.23	-125.780	-522.52	994.87	2,568.43	2,456.24	112.20	22.892	
10,600.00	10,574.04	21,124.62	12,693.11	36.01	125.35	-125.434	-530.99	995.17	2,484.78	2,371.17	113.60	21.872	
10,700.00	10,673.75	21,131.00	12,693.23	36.38	125.44	-125.172	-537.36	995.40	2,402.34	2,287.26	115.08	20.875	
10,800.00	10,773.46	21,131.00	12,693.23	36.75	125.44	-125.172	-537.36	995.40	2,321.28	2,204.66	116.62	19.905	
10,900.00	10,873.18	21,131.00	12,693.23	37.12	125.44	-125.172	-537.36	995.40	2,241.74	2,123.50	118.25	18.958	
11,000.00	10,972.89	21,131.00	12,693.23	37.50	125.44	-125.172	-537.36	995.40	2,163.91	2,043.93	119.98	18.035	
11,100.00	11,072.60	21,131.00	12,693.23	37.87	125.44	-125.172	-537.36	995.40	2,087.96	1,966.14	121.83	17.139	
11,200.00	11,172.31	21,131.00	12,693.23	38.24	125.44	-125.172	-537.36	995.40	2,014.12	1,890.34	123.78	16.271	
11,300.00	11,272.02	21,131.00	12,693.23	38.62	125.44	-125.172	-537.36	995.40	1,942.62	1,816.77	125.85	15.436	
11,381.30	11,353.08	21,131.00	12,693.23	38.92	125.44	-125.172	-537.36	995.40	1,886.40	1,758.79	127.61	14.782	
11,400.00	11,371.73	21,131.00	12,693.23	38.98	125.44	-124.889	-537.36	995.40	1,873.70	1,745.68	128.02	14.635	
11,500.00	11,471.59	21,131.00	12,693.23	39.34	125.44	-123.394	-537.36	995.40	1,806.68	1,676.41	130.27	13.869	
11,599.47	11,571.04	21,131.00	12,693.23	39.49	125.44	84.033	-537.36	995.40	1,741.68	1,609.20	132.48	13.147	
11,600.00	11,571.57	21,131.00	12,693.23	39.49	125.44	84.033	-537.36	995.40	1,741.34	1,608.85	132.49	13.143	
11,700.00	11,671.57	21,131.00	12,693.23	39.52	125.44	84.033	-537.36	995.40	1,678.67	1,543.97	134.70	12.462	
11,800.00	11,771.57	21,131.00	12,693.23	39.52	125.44	84.033	-537.36	995.40	1,619.75	1,482.81	136.94	11.828	
11,900.00	11,871.57	21,131.00	12,693.23	39.53	125.44	84.033	-537.36	995.40	1,565.01	1,425.82	139.19	11.244	
12,000.00	11,971.57	21,131.00	12,693.23	39.54	125.44	84.033	-537.36	995.40	1,514.90	1,373.50	141.40	10.714	
12,099.47	12,071.04	21,131.00	12,693.23	39.54	125.44	84.033	-537.36	995.40	1,470.12	1,326.61	143.51	10.244	
12,100.00	12,071.57	21,131.00	12,693.23	39.55	125.44	-95.438	-537.36	995.40	1,469.90	1,326.38	143.52	10.242	
12,150.00	12,121.50	21,131.00	12,693.23	39.65	125.44	-97.635	-537.36	995.40	1,449.68	1,305.12	144.56	10.028	
12,200.00	12,171.05	21,131.00	12,693.23	39.91	125.44	-99.569	-537.36	995.40	1,431.46	1,285.85	145.61	9.831	
12,250.00	12,219.84	21,131.00	12,693.23	40.20	125.44	-101.230	-537.36	995.40	1,415.47	1,268.82	146.65	9.652	
12,300.00	12,267.50	21,131.00	12,693.23	40.50	125.44	-102.610	-537.36	995.40	1,401.90	1,254.24	147.66	9.494	
12,350.00	12,313.66	21,131.00	12,693.23	40.80	125.44	-103.706	-537.36	995.40	1,390.92	1,242.31	148.61	9.359	
12,400.00	12,357.98	21,131.00	12,693.23	41.09	125.44	-104.516	-537.36	995.40	1,382.69	1,233.19	149.49	9.249	
12,450.00	12,400.11	21,131.00	12,693.23	41.38	125.44	-105.040	-537.36	995.40	1,377.31	1,227.03	150.28	9.165	
12,500.00	12,439.74	21,131.00	12,693.23	41.66	125.44	-105.277	-537.36	995.40	1,374.86	1,223.92	150.94	9.109	
12,516.35	12,452.10	21,131.00	12,693.23	41.74	125.44	-105.292	-537.36	995.40	1,374.70	1,223.57	151.13	9.096 CC, ES	
12,550.00	12,476.56	21,131.00	12,693.23	41.92	125.44	-105.227	-537.36	995.40	1,375.37	1,223.91	151.46	9.080 SF	
12,600.00	12,510.29	21,131.00	12,693.23	42.16	125.44	-104.891	-537.36	995.40	1,378.84	1,227.00	151.84	9.081	
12,650.00	12,540.68	21,131.00	12,693.23	42.39	125.44	-104.268	-537.36	995.40	1,385.22	1,233.18	152.04	9.111	
12,700.00	12,567.50	21,131.00	12,693.23	42.58	125.44	-103.359	-537.36	995.40	1,394.42	1,242.34	152.07	9.169	
12,750.00	12,590.54	21,131.00	12,693.23	42.76	125.44	-102.165	-537.36	995.40	1,406.31	1,254.38	151.93	9.256	
12,800.00	12,609.63	21,131.00	12,693.23	42.91	125.44	-100.687	-537.36	995.40	1,420.74	1,269.12	151.62	9.370	
12,850.00	12,624.61	21,131.00	12,693.23	43.03	125.44	-98.930	-537.36	995.40	1,437.53	1,286.38	151.14	9.511	
12,900.00	12,635.39	21,131.00	12,693.23	43.12	125.44	-96.904	-537.36	995.40	1,456.46	1,305.95	150.51	9.677	
12,950.00	12,641.87	21,131.00	12,693.23	43.19	125.44	-94.620	-537.36	995.40	1,477.32	1,327.57	149.75	9.865	
12,999.47	12,644.00	21,131.00	12,693.23	43.23	125.44	-92.126	-537.36	995.40	1,499.62	1,350.74	148.88	10.073	
13,000.00	12,644.00	21,131.00	12,693.23	43.24	125.44	-92.126	-537.36	995.40	1,499.86	1,350.99	148.87	10.075	
13,100.00	12,644.00	21,131.00	12,693.23	43.31	125.44	-92.126	-537.36	995.40	1,549.00	1,402.16	146.84	10.549	
13,200.00	12,644.00	21,131.00	12,693.23	43.39	125.44	-92.126	-537.36	995.40	1,602.89	1,458.31	144.57	11.087	
13,300.00	12,644.00	21,131.00	12,693.23	43.50	125.44	-92.126	-537.36	995.40	1,661.05	1,518.91	142.13	11.687	
13,400.00	12,644.00	21,131.00	12,693.23	43.63	125.44	-92.126	-537.36	995.40	1,723.05	1,583.46	139.59	12.344	
13,500.00	12,644.00	21,131.00	12,693.23	43.78	125.44	-92.126	-537.36	995.40	1,788.50	1,651.51	136.99	13.055	
13,600.00	12,644.00	21,131.00	12,693.23	43.96	125.44	-92.126	-537.36	995.40	1,857.03	1,722.64	134.39	13.818	
13,700.00	12,644.00	21,131.00	12,693.23	44.18	125.44	-92.126	-537.36	995.40	1,928.31	1,796.49	131.82	14.628	
13,800.00	12,644.00	21,131.00	12,693.23	44.44	125.44	-92.126	-537.36	995.40	2,002.06	1,872.75	129.31	15.483	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 434H - OH / 67733 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 174-MWD+HRGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Offset												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
13,900.00	12,644.00	21,131.00	12,693.23	44.74	125.44	-92.126	-537.36	995.40	2,077.99	1,951.13	126.87	16.379	
14,000.00	12,644.00	21,131.00	12,693.23	45.11	125.44	-92.126	-537.36	995.40	2,155.90	2,031.38	124.51	17.315	
14,100.00	12,644.00	21,131.00	12,693.23	45.54	125.44	-92.126	-537.36	995.40	2,235.56	2,113.31	122.25	18.287	
14,200.00	12,644.00	21,131.00	12,693.23	46.05	125.44	-92.126	-537.36	995.40	2,316.80	2,196.72	120.08	19.293	
14,300.00	12,644.00	21,131.00	12,693.23	46.65	125.44	-92.126	-537.36	995.40	2,399.45	2,281.44	118.02	20.332	
14,400.00	12,644.00	21,131.00	12,693.23	47.33	125.44	-92.126	-537.36	995.40	2,483.39	2,367.34	116.05	21.400	
14,500.00	12,644.00	21,131.00	12,693.23	48.09	125.44	-92.126	-537.36	995.40	2,568.47	2,454.29	114.18	22.495	
14,600.00	12,644.00	21,131.00	12,693.23	48.94	125.44	-92.126	-537.36	995.40	2,654.59	2,542.19	112.40	23.617	
14,700.00	12,644.00	21,131.00	12,693.23	49.86	125.44	-92.126	-537.36	995.40	2,741.66	2,630.94	110.72	24.762	
14,800.00	12,644.00	21,131.00	12,693.23	50.85	125.44	-92.126	-537.36	995.40	2,829.58	2,720.46	109.12	25.930	
14,900.00	12,644.00	21,131.00	12,693.23	51.89	125.44	-92.126	-537.36	995.40	2,918.28	2,810.67	107.61	27.119	
15,000.00	12,644.00	21,131.00	12,693.23	52.99	125.44	-92.126	-537.36	995.40	3,007.69	2,901.51	106.18	28.326	
15,100.00	12,644.00	21,131.00	12,693.23	54.12	125.44	-92.126	-537.36	995.40	3,097.75	2,992.92	104.83	29.551	
15,200.00	12,644.00	21,131.00	12,693.23	55.29	125.44	-92.126	-537.36	995.40	3,188.39	3,084.85	103.54	30.793	
15,300.00	12,644.00	21,131.00	12,693.23	56.49	125.44	-92.126	-537.36	995.40	3,279.59	3,177.26	102.33	32.050	
15,400.00	12,644.00	21,131.00	12,693.23	57.72	125.44	-92.126	-537.36	995.40	3,371.28	3,270.10	101.18	33.320	
15,500.00	12,644.00	21,131.00	12,693.23	58.96	125.44	-92.126	-537.36	995.40	3,463.43	3,363.34	100.09	34.604	
15,600.00	12,644.00	21,131.00	12,693.23	60.22	125.44	-92.126	-537.36	995.40	3,556.01	3,456.95	99.06	35.899	
15,700.00	12,644.00	21,131.00	12,693.23	61.50	125.44	-92.126	-537.36	995.40	3,648.97	3,550.90	98.08	37.205	
15,800.00	12,644.00	21,131.00	12,693.23	62.79	125.44	-92.126	-537.36	995.40	3,742.30	3,645.15	97.15	38.520	
15,900.00	12,644.00	21,131.00	12,693.23	64.09	125.44	-92.126	-537.36	995.40	3,835.97	3,739.70	96.27	39.845	
16,000.00	12,644.00	21,131.00	12,693.23	65.40	125.44	-92.126	-537.36	995.40	3,929.95	3,834.51	95.44	41.177	
16,100.00	12,644.00	21,131.00	12,693.23	66.72	125.44	-92.126	-537.36	995.40	4,024.22	3,929.57	94.65	42.517	
16,200.00	12,644.00	21,131.00	12,693.23	68.04	125.44	-92.126	-537.36	995.40	4,118.76	4,024.86	93.90	43.864	
16,300.00	12,644.00	21,131.00	12,693.23	69.38	125.44	-92.126	-537.36	995.40	4,213.55	4,120.36	93.19	45.216	
16,400.00	12,644.00	21,131.00	12,693.23	70.72	125.44	-92.126	-537.36	995.40	4,308.58	4,216.07	92.51	46.574	
16,500.00	12,644.00	21,131.00	12,693.23	72.07	125.44	-92.126	-537.36	995.40	4,403.82	4,311.95	91.87	47.936	
16,600.00	12,644.00	21,131.00	12,693.23	73.42	125.44	-92.126	-537.36	995.40	4,499.28	4,408.02	91.26	49.302	
16,700.00	12,644.00	21,131.00	12,693.23	74.77	125.44	-92.126	-537.36	995.40	4,594.92	4,504.24	90.68	50.671	
16,800.00	12,644.00	21,131.00	12,693.23	76.13	125.44	-92.126	-537.36	995.40	4,690.75	4,600.62	90.13	52.044	
16,900.00	12,644.00	21,131.00	12,693.23	77.49	125.44	-92.126	-537.36	995.40	4,786.75	4,697.14	89.61	53.419	
17,000.00	12,644.00	21,131.00	12,693.23	78.86	125.44	-92.126	-537.36	995.40	4,882.91	4,793.80	89.11	54.796	
17,100.00	12,644.00	21,131.00	12,693.23	80.23	125.44	-92.126	-537.36	995.40	4,979.22	4,890.58	88.64	56.174	
17,200.00	12,644.00	21,131.00	12,693.23	81.60	125.44	-92.126	-537.36	995.40	5,075.67	4,987.49	88.19	57.554	
17,300.00	12,644.00	21,131.00	12,693.23	82.98	125.44	-92.126	-537.36	995.40	5,172.26	5,084.50	87.76	58.935	
17,400.00	12,644.00	21,131.00	12,693.23	84.36	125.44	-92.126	-537.36	995.40	5,268.98	5,181.62	87.36	60.316	
17,500.00	12,644.00	21,131.00	12,693.23	85.74	125.44	-92.126	-537.36	995.40	5,365.81	5,278.84	86.97	61.697	
17,600.00	12,644.00	21,131.00	12,693.23	87.12	125.44	-92.126	-537.36	995.40	5,462.76	5,376.16	86.60	63.078	
17,700.00	12,644.00	21,131.00	12,693.23	88.51	125.44	-92.126	-537.36	995.40	5,559.82	5,473.57	86.26	64.458	
17,800.00	12,644.00	21,131.00	12,693.23	89.89	125.44	-92.126	-537.36	995.40	5,656.98	5,571.06	85.92	65.837	
17,900.00	12,644.00	21,131.00	12,693.23	91.28	125.44	-92.126	-537.36	995.40	5,754.24	5,668.63	85.61	67.216	
18,000.00	12,644.00	21,131.00	12,693.23	92.67	125.44	-92.126	-537.36	995.40	5,851.59	5,766.28	85.31	68.593	
18,100.00	12,644.00	21,131.00	12,693.23	94.07	125.44	-92.126	-537.36	995.40	5,949.03	5,864.00	85.02	69.969	
18,200.00	12,644.00	21,131.00	12,693.23	95.46	125.44	-92.126	-537.36	995.40	6,046.55	5,961.80	84.75	71.342	
18,300.00	12,644.00	21,131.00	12,693.23	96.85	125.44	-92.126	-537.36	995.40	6,144.15	6,059.66	84.50	72.714	
18,400.00	12,644.00	21,131.00	12,693.23	98.25	125.44	-92.126	-537.36	995.40	6,241.83	6,157.58	84.25	74.084	
18,500.00	12,644.00	21,131.00	12,693.23	99.65	125.44	-92.126	-537.36	995.40	6,339.58	6,255.56	84.02	75.451	
18,600.00	12,644.00	21,131.00	12,693.23	101.05	125.44	-92.126	-537.36	995.40	6,437.40	6,353.60	83.80	76.816	
18,700.00	12,644.00	21,131.00	12,693.23	102.45	125.44	-92.126	-537.36	995.40	6,535.28	6,451.69	83.60	78.178	
18,800.00	12,644.00	21,131.00	12,693.23	103.85	125.44	-92.126	-537.36	995.40	6,633.23	6,549.83	83.40	79.537	
18,900.00	12,644.00	21,131.00	12,693.23	105.25	125.44	-92.126	-537.36	995.40	6,731.24	6,648.03	83.21	80.893	
19,000.00	12,644.00	21,131.00	12,693.23	106.65	125.44	-92.126	-537.36	995.40	6,829.31	6,746.27	83.04	82.246	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 434H - OH / 67733 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 174-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
19,100.00	12,644.00	21,131.00	12,693.23	108.06	125.44	-92.126	-537.36	995.40	6,927.43	6,844.56	82.87	83.596	
19,200.00	12,644.00	21,131.00	12,693.23	109.46	125.44	-92.126	-537.36	995.40	7,025.60	6,942.89	82.71	84.942	
19,300.00	12,644.00	21,131.00	12,693.23	110.87	125.44	-92.126	-537.36	995.40	7,123.83	7,041.27	82.56	86.285	
19,400.00	12,644.00	21,131.00	12,693.23	112.28	125.44	-92.126	-537.36	995.40	7,222.10	7,139.68	82.42	87.624	
19,500.00	12,644.00	21,131.00	12,693.23	113.68	125.44	-92.126	-537.36	995.40	7,320.42	7,238.13	82.29	88.959	
19,600.00	12,644.00	21,131.00	12,693.23	115.09	125.44	-92.126	-537.36	995.40	7,418.79	7,336.62	82.17	90.291	
19,700.00	12,644.00	21,131.00	12,693.23	116.50	125.44	-92.126	-537.36	995.40	7,517.20	7,435.15	82.05	91.618	
19,800.00	12,644.00	21,131.00	12,693.23	117.91	125.44	-92.126	-537.36	995.40	7,615.65	7,533.71	81.94	92.942	
19,900.00	12,644.00	21,131.00	12,693.23	119.32	125.44	-92.126	-537.36	995.40	7,714.14	7,632.30	81.84	94.261	
20,000.00	12,644.00	21,131.00	12,693.23	120.73	125.44	-92.126	-537.36	995.40	7,812.66	7,730.92	81.74	95.577	
20,100.00	12,644.00	21,131.00	12,693.23	122.15	125.44	-92.126	-537.36	995.40	7,911.23	7,829.58	81.65	96.888	
20,200.00	12,644.00	21,131.00	12,693.23	123.56	125.44	-92.126	-537.36	995.40	8,009.83	7,928.26	81.57	98.194	
20,300.00	12,644.00	21,131.00	12,693.23	124.97	125.44	-92.126	-537.36	995.40	8,108.47	8,026.97	81.49	99.497	
20,400.00	12,644.00	21,131.00	12,693.23	126.38	125.44	-92.126	-537.36	995.40	8,207.13	8,125.71	81.42	100.795	
20,500.00	12,644.00	21,131.00	12,693.23	127.80	125.44	-92.126	-537.36	995.40	8,305.83	8,224.48	81.36	102.088	
20,600.00	12,644.00	21,131.00	12,693.23	129.21	125.44	-92.126	-537.36	995.40	8,404.57	8,323.27	81.30	103.377	
20,700.00	12,644.00	21,131.00	12,693.23	130.63	125.44	-92.126	-537.36	995.40	8,503.33	8,422.08	81.25	104.661	
20,800.00	12,644.00	21,131.00	12,693.23	132.04	125.44	-92.126	-537.36	995.40	8,602.11	8,520.92	81.20	105.941	
20,900.00	12,644.00	21,131.00	12,693.23	133.46	125.44	-92.126	-537.36	995.40	8,700.93	8,619.78	81.15	107.216	
21,000.00	12,644.00	21,131.00	12,693.23	134.88	125.44	-92.126	-537.36	995.40	8,799.78	8,718.66	81.11	108.486	
21,100.00	12,644.00	21,131.00	12,693.23	136.29	125.44	-92.126	-537.36	995.40	8,898.64	8,817.56	81.08	109.751	
21,200.00	12,644.00	21,131.00	12,693.23	137.71	125.44	-92.126	-537.36	995.40	8,997.54	8,916.49	81.05	111.012	
21,300.00	12,644.00	21,131.00	12,693.23	139.13	125.44	-92.126	-537.36	995.40	9,096.46	9,015.43	81.02	112.268	
21,400.00	12,644.00	21,131.00	12,693.23	140.54	125.44	-92.126	-537.36	995.40	9,195.40	9,114.40	81.00	113.519	
21,500.00	12,644.00	21,131.00	12,693.23	141.96	125.44	-92.126	-537.36	995.40	9,294.36	9,213.38	80.99	114.765	
21,600.00	12,644.00	21,131.00	12,693.23	143.38	125.44	-92.126	-537.36	995.40	9,393.35	9,312.38	80.97	116.006	
21,700.00	12,644.00	21,131.00	12,693.23	144.80	125.44	-92.126	-537.36	995.40	9,492.36	9,411.39	80.96	117.242	
21,800.00	12,644.00	21,131.00	12,693.23	146.22	125.44	-92.126	-537.36	995.40	9,591.39	9,510.43	80.96	118.473	
21,900.00	12,644.00	21,131.00	12,693.23	147.64	125.44	-92.126	-537.36	995.40	9,690.43	9,609.48	80.96	119.699	
22,000.00	12,644.00	21,131.00	12,693.23	149.06	125.44	-92.126	-537.36	995.40	9,789.50	9,708.54	80.96	120.920	
22,100.00	12,644.00	21,131.00	12,693.23	150.48	125.44	-92.126	-537.36	995.40	9,888.59	9,807.62	80.96	122.136	
22,199.47	12,644.00	21,131.00	12,693.23	151.89	125.44	-92.126	-537.36	995.40	9,987.17	9,906.20	80.97	123.341	



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 514H - OH / 67734 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 174-MWD+HDGM+MS												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	78.48	36.48	1.00	1.01	6.890	8,042.92	971.83	8,101.51				
100.00	100.00	205.97	163.93	1.08	1.07	6.908	8,041.64	974.31	8,100.70	8,098.55	2.15	3,760.114	
200.00	200.00	284.00	241.96	1.60	1.20	6.915	8,041.10	975.28	8,100.14	8,097.34	2.80	2,895.896	
300.00	300.00	355.62	313.58	2.01	1.36	6.918	8,040.90	975.58	8,099.88	8,096.51	3.37	2,406.089	
393.92	393.92	435.97	393.93	2.33	1.57	6.919	8,040.80	975.77	8,099.79	8,095.89	3.90	2,078.704	
400.00	400.00	440.87	398.82	2.35	1.58	6.919	8,040.80	975.78	8,099.79	8,095.86	3.93	2,060.358	
500.00	500.00	527.29	485.24	2.65	1.83	6.922	8,040.86	976.22	8,099.92	8,095.43	4.48	1,807.527	
600.00	600.00	628.98	586.94	2.93	2.13	6.926	8,040.97	976.77	8,100.09	8,095.03	5.06	1,600.556	
700.00	700.00	719.21	677.16	3.18	2.41	6.922	8,041.19	976.26	8,100.27	8,094.69	5.59	1,450.295	
800.00	800.00	799.12	757.07	3.41	2.65	6.915	8,041.66	975.24	8,100.69	8,094.63	6.07	1,335.520	
900.00	900.00	895.77	853.70	3.64	2.96	6.904	8,042.41	973.87	8,101.29	8,094.69	6.59	1,228.565	
1,000.00	1,000.00	1,024.41	982.33	3.85	3.38	6.892	8,043.14	972.16	8,101.70	8,094.48	7.23	1,121.326	
1,100.00	1,100.00	1,118.85	1,076.75	4.05	3.69	6.882	8,043.51	970.87	8,101.92	8,094.18	7.74	1,046.596	
1,200.00	1,200.00	1,227.25	1,185.15	4.24	4.06	6.874	8,043.93	969.67	8,102.18	8,093.88	8.30	976.090	
1,300.00	1,300.00	1,331.99	1,289.88	4.43	4.42	6.869	8,044.17	969.06	8,102.33	8,093.49	8.84	916.085	
1,400.00	1,400.00	1,452.37	1,410.26	4.61	4.83	6.866	8,044.32	968.60	8,102.43	8,092.99	9.44	858.542	
1,500.00	1,500.00	1,609.84	1,567.65	4.78	5.37	6.900	8,042.91	973.28	8,101.87	8,091.72	10.15	798.418	
1,524.75	1,524.75	1,633.14	1,590.92	4.83	5.45	160.928	8,042.58	974.40	8,101.77	8,091.50	10.27	788.806	
1,600.00	1,599.98	1,713.42	1,671.09	4.98	5.72	160.955	8,041.43	978.33	8,102.69	8,092.00	10.69	758.257	
1,700.00	1,699.84	1,815.00	1,772.53	5.60	6.07	160.978	8,039.84	983.51	8,106.70	8,095.09	11.61	698.283	
1,718.18	1,717.96	1,829.64	1,787.14	5.62	6.12	160.979	8,039.62	984.28	8,107.79	8,096.12	11.67	694.594	
1,800.00	1,799.55	1,896.80	1,854.21	5.72	6.35	161.017	8,038.67	987.86	8,113.06	8,101.06	12.01	675.746	
1,900.00	1,899.26	1,983.93	1,941.20	5.89	6.66	161.067	8,037.55	992.66	8,119.67	8,107.19	12.48	650.679	
2,000.00	1,998.97	2,077.70	2,034.80	6.09	6.99	161.121	8,036.43	997.99	8,126.39	8,113.39	13.00	625.203	
2,100.00	2,098.68	2,159.00	2,115.96	6.30	7.27	161.170	8,035.52	1,002.78	8,133.22	8,119.74	13.49	602.931	
2,200.00	2,198.39	2,254.00	2,210.78	6.53	7.61	161.228	8,034.60	1,008.59	8,140.23	8,126.19	14.04	579.620	
2,300.00	2,298.10	2,335.00	2,291.62	6.77	7.90	161.278	8,033.94	1,013.69	8,147.43	8,132.87	14.56	559.492	
2,400.00	2,397.81	2,412.62	2,369.07	7.02	8.17	161.327	8,033.45	1,018.77	8,154.85	8,139.77	15.08	540.776	
2,500.00	2,497.52	2,491.74	2,448.00	7.28	8.45	161.379	8,033.14	1,024.17	8,162.55	8,146.93	15.61	522.789	
2,600.00	2,597.23	2,576.26	2,532.31	7.55	8.76	161.435	8,032.97	1,030.09	8,170.47	8,154.29	16.18	505.097	
2,700.00	2,696.94	2,658.78	2,614.62	7.83	9.05	161.489	8,032.92	1,035.94	8,178.56	8,161.82	16.74	488.564	
2,800.00	2,796.65	2,901.68	2,857.01	8.12	9.92	161.639	8,031.77	1,051.48	8,186.50	8,168.60	17.89	457.504	
2,900.00	2,896.36	2,992.10	2,947.27	8.42	10.25	161.692	8,030.40	1,056.65	8,192.99	8,174.49	18.50	442.825	
3,000.00	2,996.07	3,069.63	3,024.64	8.72	10.53	161.739	8,029.36	1,061.50	8,199.73	8,180.66	19.07	429.994	
3,100.00	3,095.78	3,135.74	3,090.62	9.03	10.77	161.780	8,028.65	1,065.72	8,206.78	8,187.18	19.60	418.697	
3,200.00	3,195.49	3,202.00	3,156.75	9.34	11.01	161.819	8,028.36	1,069.68	8,214.35	8,194.21	20.14	407.923	
3,300.00	3,295.20	3,259.25	3,213.91	9.66	11.21	161.852	8,028.38	1,073.04	8,222.37	8,201.73	20.64	398.295	
3,400.00	3,394.91	3,331.60	3,286.12	9.98	11.47	161.894	8,028.61	1,077.50	8,230.77	8,209.56	21.21	388.056	
3,500.00	3,494.62	3,406.48	3,360.84	10.30	11.74	161.940	8,029.04	1,082.34	8,239.47	8,217.68	21.79	378.136	
3,600.00	3,594.33	3,486.00	3,440.17	10.63	12.03	161.990	8,029.72	1,087.85	8,248.50	8,226.11	22.39	368.400	
3,700.00	3,694.04	3,542.09	3,496.10	10.96	12.23	162.027	8,030.38	1,091.94	8,257.90	8,235.00	22.91	360.513	
3,800.00	3,793.75	3,606.98	3,560.80	11.29	12.47	162.070	8,031.40	1,096.78	8,267.75	8,244.29	23.46	352.462	
3,900.00	3,893.47	3,675.00	3,628.61	11.63	12.72	162.115	8,032.73	1,101.95	8,277.99	8,253.97	24.02	344.596	
4,000.00	3,993.18	3,814.82	3,768.08	11.97	13.22	162.201	8,035.42	1,111.50	8,288.08	8,263.22	24.86	333.384	
4,100.00	4,092.89	3,914.27	3,867.30	12.31	13.58	162.260	8,037.19	1,118.00	8,298.04	8,272.49	25.55	324.797	
4,200.00	4,192.60	4,015.28	3,968.06	12.65	13.95	162.322	8,038.94	1,124.95	8,307.99	8,281.75	26.25	316.552	
4,300.00	4,292.31	4,166.91	4,119.28	13.00	14.50	162.418	8,041.10	1,135.84	8,317.74	8,290.61	27.14	306.507	
4,400.00	4,392.02	4,274.59	4,226.69	13.34	14.89	162.486	8,042.19	1,143.32	8,327.03	8,299.17	27.86	298.840	
4,500.00	4,491.73	4,377.31	4,329.16	13.69	15.27	162.549	8,043.19	1,150.39	8,336.28	8,307.70	28.57	291.735	
4,600.00	4,591.44	4,474.53	4,426.15	14.04	15.62	162.609	8,044.05	1,157.05	8,345.44	8,316.18	29.27	285.159	
4,700.00	4,691.15	4,552.29	4,503.72	14.39	15.91	162.656	8,044.89	1,162.36	8,354.80	8,324.92	29.88	279.570	
4,800.00	4,790.86	4,628.54	4,579.79	14.74	16.19	162.703	8,045.92	1,167.70	8,364.46	8,333.96	30.50	274.257	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 514H - OH / 67734 - Surveys (H&P 474)													Offset Site Error:	0.00 usft
Survey Program:		174-MWD+HDGM+MS					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	4,890.57	21,341.00	13,039.03	15.10	121.71	-124.063	-518.52	1,469.74	8,305.31	8,223.79	81.52	101.885		
5,000.00	4,990.28	21,341.00	13,039.03	15.45	121.71	-124.063	-518.52	1,469.74	8,207.91	8,126.16	81.75	100.405		
5,100.00	5,089.99	21,341.00	13,039.03	15.81	121.71	-124.063	-518.52	1,469.74	8,110.56	8,028.58	81.98	98.928		
5,200.00	5,189.70	21,341.00	13,039.03	16.16	121.71	-124.063	-518.52	1,469.74	8,013.29	7,931.06	82.23	97.454		
5,300.00	5,289.41	21,341.00	13,039.03	16.52	121.71	-124.063	-518.52	1,469.74	7,916.08	7,833.61	82.47	95.984		
5,400.00	5,389.12	21,341.00	13,039.03	16.88	121.71	-124.063	-518.52	1,469.74	7,818.94	7,736.22	82.73	94.517		
5,500.00	5,488.83	21,341.00	13,039.03	17.24	121.71	-124.063	-518.52	1,469.74	7,721.88	7,638.90	82.98	93.053		
5,600.00	5,588.54	21,341.00	13,039.03	17.59	121.71	-124.063	-518.52	1,469.74	7,624.89	7,541.65	83.25	91.594		
5,700.00	5,688.25	21,341.00	13,039.03	17.95	121.71	-124.063	-518.52	1,469.74	7,527.98	7,444.47	83.52	90.138		
5,800.00	5,787.96	21,341.00	13,039.03	18.32	121.71	-124.063	-518.52	1,469.74	7,431.16	7,347.36	83.79	88.686		
5,900.00	5,887.67	21,341.00	13,039.03	18.68	121.71	-124.063	-518.52	1,469.74	7,334.41	7,250.34	84.07	87.238		
6,000.00	5,987.38	21,341.00	13,039.03	19.04	121.71	-124.063	-518.52	1,469.74	7,237.76	7,153.40	84.36	85.794		
6,100.00	6,087.09	21,341.00	13,039.03	19.40	121.71	-124.063	-518.52	1,469.74	7,141.20	7,056.54	84.66	84.355		
6,200.00	6,186.80	21,341.00	13,039.03	19.76	121.71	-124.063	-518.52	1,469.74	7,044.73	6,959.77	84.96	82.920		
6,300.00	6,286.51	21,341.00	13,039.03	20.13	121.71	-124.063	-518.52	1,469.74	6,948.37	6,863.10	85.27	81.490		
6,400.00	6,386.22	21,341.00	13,039.03	20.49	121.71	-124.063	-518.52	1,469.74	6,852.11	6,766.52	85.58	80.064		
6,500.00	6,485.93	21,341.00	13,039.03	20.86	121.71	-124.063	-518.52	1,469.74	6,755.95	6,670.05	85.91	78.644		
6,600.00	6,585.64	21,341.00	13,039.03	21.22	121.71	-124.063	-518.52	1,469.74	6,659.91	6,573.68	86.24	77.228		
6,700.00	6,685.35	21,341.00	13,039.03	21.59	121.71	-124.063	-518.52	1,469.74	6,563.99	6,477.42	86.58	75.817		
6,800.00	6,785.06	21,341.00	13,039.03	21.95	121.71	-124.063	-518.52	1,469.74	6,468.19	6,381.27	86.92	74.412		
6,900.00	6,884.77	21,341.00	13,039.03	22.32	121.71	-124.063	-518.52	1,469.74	6,372.53	6,285.24	87.28	73.012		
7,000.00	6,984.48	21,341.00	13,039.03	22.68	121.71	-124.063	-518.52	1,469.74	6,276.99	6,189.35	87.65	71.617		
7,100.00	7,084.19	21,341.00	13,039.03	23.05	121.71	-124.063	-518.52	1,469.74	6,181.60	6,093.58	88.02	70.228		
7,200.00	7,183.90	21,341.00	13,039.03	23.42	121.71	-124.063	-518.52	1,469.74	6,086.36	5,997.95	88.41	68.845		
7,300.00	7,283.61	21,341.00	13,039.03	23.78	121.71	-124.063	-518.52	1,469.74	5,991.27	5,902.46	88.80	67.468		
7,400.00	7,383.32	21,341.00	13,039.03	24.15	121.71	-124.063	-518.52	1,469.74	5,896.34	5,807.13	89.21	66.097		
7,500.00	7,483.03	21,341.00	13,039.03	24.52	121.71	-124.063	-518.52	1,469.74	5,801.58	5,711.96	89.63	64.732		
7,600.00	7,582.74	21,341.00	13,039.03	24.89	121.71	-124.063	-518.52	1,469.74	5,707.00	5,616.95	90.05	63.373		
7,700.00	7,682.45	21,341.00	13,039.03	25.25	121.71	-124.063	-518.52	1,469.74	5,612.62	5,522.12	90.50	62.021		
7,800.00	7,782.16	21,341.00	13,039.03	25.62	121.71	-124.063	-518.52	1,469.74	5,518.42	5,427.47	90.95	60.676		
7,900.00	7,881.87	21,341.00	13,039.03	25.99	121.71	-124.063	-518.52	1,469.74	5,424.44	5,333.02	91.42	59.337		
8,000.00	7,981.58	21,341.00	13,039.03	26.36	121.71	-124.063	-518.52	1,469.74	5,330.67	5,238.78	91.90	58.006		
8,100.00	8,081.29	21,341.00	13,039.03	26.73	121.71	-124.063	-518.52	1,469.74	5,237.14	5,144.74	92.39	56.682		
8,200.00	8,181.00	21,341.00	13,039.03	27.10	121.71	-124.063	-518.52	1,469.74	5,143.85	5,050.94	92.91	55.365		
8,300.00	8,280.71	21,341.00	13,039.03	27.47	121.71	-124.063	-518.52	1,469.74	5,050.81	4,957.38	93.44	54.056		
8,400.00	8,380.42	21,341.00	13,039.03	27.84	121.71	-124.063	-518.52	1,469.74	4,958.05	4,864.07	93.98	52.755		
8,500.00	8,480.13	21,341.00	13,039.03	28.21	121.71	-124.063	-518.52	1,469.74	4,865.57	4,771.03	94.55	51.462		
8,600.00	8,579.84	21,341.00	13,039.03	28.58	121.71	-124.063	-518.52	1,469.74	4,773.40	4,678.27	95.13	50.178		
8,700.00	8,679.55	21,341.00	13,039.03	28.95	121.71	-124.063	-518.52	1,469.74	4,681.55	4,585.82	95.73	48.902		
8,800.00	8,779.26	21,341.00	13,039.03	29.32	121.71	-124.063	-518.52	1,469.74	4,590.04	4,493.68	96.36	47.635		
8,900.00	8,878.97	21,341.00	13,039.03	29.69	121.71	-124.063	-518.52	1,469.74	4,498.89	4,401.88	97.01	46.377		
9,000.00	8,978.68	21,341.00	13,039.03	30.06	121.71	-124.063	-518.52	1,469.74	4,408.12	4,310.44	97.68	45.128		
9,100.00	9,078.39	21,341.00	13,039.03	30.43	121.71	-124.063	-518.52	1,469.74	4,317.76	4,219.39	98.38	43.890		
9,200.00	9,178.10	21,341.00	13,039.03	30.80	121.71	-124.063	-518.52	1,469.74	4,227.84	4,128.74	99.10	42.661		
9,300.00	9,277.81	21,341.00	13,039.03	31.17	121.71	-124.063	-518.52	1,469.74	4,138.38	4,038.52	99.86	41.443		
9,400.00	9,377.52	21,341.00	13,039.03	31.54	121.71	-124.063	-518.52	1,469.74	4,049.41	3,948.77	100.64	40.237		
9,500.00	9,477.23	21,341.00	13,039.03	31.91	121.71	-124.063	-518.52	1,469.74	3,960.97	3,859.51	101.46	39.041		
9,600.00	9,576.94	21,341.00	13,039.03	32.29	121.71	-124.063	-518.52	1,469.74	3,873.09	3,770.78	102.31	37.858		
9,700.00	9,676.65	21,341.00	13,039.03	32.66	121.71	-124.063	-518.52	1,469.74	3,785.81	3,682.62	103.19	36.687		
9,800.00	9,776.36	21,341.00	13,039.03	33.03	121.71	-124.063	-518.52	1,469.74	3,699.18	3,595.06	104.12	35.529		
9,900.00	9,876.07	21,341.00	13,039.03	33.40	121.71	-124.063	-518.52	1,469.74	3,613.23	3,508.15	105.08	34.385		
10,000.00	9,975.78	21,341.00	13,039.03	33.77	121.71	-124.063	-518.52	1,469.74	3,528.03	3,421.94	106.09	33.256		

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 514H - OH / 67734 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 174-MWD+HDGM+MS												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Offset												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
				(usft)	(usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,100.00	10,075.49	21,341.00	13,039.03	34.14	121.71	-124.063	-518.52	1,469.74	3,443.62	3,336.48	107.14	32.141	
10,200.00	10,175.20	21,341.00	13,039.03	34.52	121.71	-124.063	-518.52	1,469.74	3,360.07	3,251.83	108.24	31.043	
10,300.00	10,274.91	21,341.00	13,039.03	34.89	121.71	-124.063	-518.52	1,469.74	3,277.44	3,168.05	109.39	29.961	
10,400.00	10,374.62	21,341.00	13,039.03	35.26	121.71	-124.063	-518.52	1,469.74	3,195.81	3,085.22	110.59	28.898	
10,500.00	10,474.33	21,341.00	13,039.03	35.63	121.71	-124.063	-518.52	1,469.74	3,115.24	3,003.39	111.85	27.852	
10,600.00	10,574.04	21,341.00	13,039.03	36.01	121.71	-124.063	-518.52	1,469.74	3,035.83	2,922.67	113.16	26.827	
10,700.00	10,673.75	21,341.00	13,039.03	36.38	121.71	-124.063	-518.52	1,469.74	2,957.67	2,843.14	114.54	25.823	
10,800.00	10,773.46	21,341.00	13,039.03	36.75	121.71	-124.063	-518.52	1,469.74	2,880.86	2,764.89	115.97	24.842	
10,900.00	10,873.18	21,341.00	13,039.03	37.12	121.71	-124.063	-518.52	1,469.74	2,805.51	2,688.05	117.47	23.884	
11,000.00	10,972.89	21,341.00	13,039.03	37.50	121.71	-124.063	-518.52	1,469.74	2,731.75	2,612.72	119.03	22.951	
11,100.00	11,072.60	21,341.00	13,039.03	37.87	121.71	-124.063	-518.52	1,469.74	2,659.70	2,539.05	120.65	22.045	
11,200.00	11,172.31	21,341.00	13,039.03	38.24	121.71	-124.063	-518.52	1,469.74	2,589.51	2,467.17	122.33	21.167	
11,300.00	11,272.02	21,341.00	13,039.03	38.62	121.71	-124.063	-518.52	1,469.74	2,521.33	2,397.25	124.08	20.320	
11,381.30	11,353.08	21,341.00	13,039.03	38.92	121.71	-124.063	-518.52	1,469.74	2,467.50	2,341.96	125.54	19.655	
11,400.00	11,371.73	21,341.00	13,039.03	38.98	121.71	-123.796	-518.52	1,469.74	2,455.30	2,329.42	125.88	19.505	
11,500.00	11,471.59	21,341.00	13,039.03	39.34	121.71	-123.375	-518.52	1,469.74	2,390.64	2,262.94	127.70	18.721	
11,599.47	11,571.04	21,341.00	13,039.03	39.49	121.71	85.003	-518.52	1,469.74	2,327.33	2,197.89	129.44	17.980	
11,600.00	11,571.57	21,341.00	13,039.03	39.49	121.71	85.003	-518.52	1,469.74	2,327.00	2,197.55	129.45	17.976	
11,700.00	11,671.57	21,341.00	13,039.03	39.52	121.71	85.003	-518.52	1,469.74	2,265.27	2,134.12	131.15	17.273	
11,800.00	11,771.57	21,341.00	13,039.03	39.52	121.71	85.003	-518.52	1,469.74	2,206.34	2,073.48	132.86	16.607	
11,900.00	11,871.57	21,341.00	13,039.03	39.53	121.71	85.003	-518.52	1,469.74	2,150.45	2,015.88	134.57	15.980	
12,000.00	11,971.57	21,341.00	13,039.03	39.54	121.71	85.003	-518.52	1,469.74	2,097.85	1,961.58	136.27	15.395	
12,099.47	12,071.04	21,341.00	13,039.03	39.54	121.71	85.003	-518.52	1,469.74	2,049.02	1,911.10	137.92	14.857	
12,100.00	12,071.57	21,341.00	13,039.03	39.55	121.71	-94.472	-518.52	1,469.74	2,048.77	1,910.84	137.93	14.854	
12,150.00	12,121.50	21,341.00	13,039.03	39.65	121.71	-97.042	-518.52	1,469.74	2,025.83	1,887.05	138.77	14.598	
12,200.00	12,171.05	21,341.00	13,039.03	39.91	121.71	-99.396	-518.52	1,469.74	2,004.35	1,864.68	139.67	14.351	
12,250.00	12,219.84	21,341.00	13,039.03	40.20	121.71	-101.516	-518.52	1,469.74	1,984.55	1,843.95	140.60	14.115	
12,300.00	12,267.50	21,341.00	13,039.03	40.50	121.71	-103.390	-518.52	1,469.74	1,966.64	1,825.09	141.55	13.894	
12,350.00	12,313.66	21,341.00	13,039.03	40.80	121.71	-105.009	-518.52	1,469.74	1,950.80	1,808.29	142.52	13.688	
12,400.00	12,357.98	21,341.00	13,039.03	41.09	121.71	-106.369	-518.52	1,469.74	1,937.22	1,793.73	143.49	13.501	
12,450.00	12,400.11	21,341.00	13,039.03	41.38	121.71	-107.467	-518.52	1,469.74	1,926.03	1,781.58	144.45	13.334	
12,500.00	12,439.74	21,341.00	13,039.03	41.66	121.71	-108.304	-518.52	1,469.74	1,917.37	1,771.98	145.39	13.188	
12,550.00	12,476.56	21,341.00	13,039.03	41.92	121.71	-108.880	-518.52	1,469.74	1,911.34	1,765.05	146.28	13.066	
12,600.00	12,510.29	21,341.00	13,039.03	42.16	121.71	-109.196	-518.52	1,469.74	1,908.01	1,760.88	147.13	12.968	
12,635.77	12,532.39	21,341.00	13,039.03	42.32	121.71	-109.262	-518.52	1,469.74	1,907.30	1,759.61	147.69	12.914 CC	
12,650.00	12,540.68	21,341.00	13,039.03	42.39	121.71	-109.252	-518.52	1,469.74	1,907.42	1,759.51	147.90	12.896 ES	
12,700.00	12,567.50	21,341.00	13,039.03	42.58	121.71	-109.048	-518.52	1,469.74	1,909.57	1,760.97	148.60	12.850	
12,750.00	12,590.54	21,341.00	13,039.03	42.76	121.71	-108.584	-518.52	1,469.74	1,914.44	1,765.24	149.20	12.831 SF	
12,800.00	12,609.63	21,341.00	13,039.03	42.91	121.71	-107.860	-518.52	1,469.74	1,921.98	1,772.27	149.71	12.838	
12,850.00	12,624.61	21,341.00	13,039.03	43.03	121.71	-106.874	-518.52	1,469.74	1,932.09	1,781.99	150.10	12.872	
12,900.00	12,635.39	21,341.00	13,039.03	43.12	121.71	-105.627	-518.52	1,469.74	1,944.66	1,794.28	150.39	12.931	
12,950.00	12,641.87	21,341.00	13,039.03	43.19	121.71	-104.119	-518.52	1,469.74	1,959.55	1,808.99	150.56	13.015	
12,999.47	12,644.00	21,341.00	13,039.03	43.23	121.71	-102.374	-518.52	1,469.74	1,976.40	1,825.78	150.62	13.122	
13,000.00	12,644.00	21,341.00	13,039.03	43.24	121.71	-102.374	-518.52	1,469.74	1,976.59	1,825.97	150.62	13.123	
13,100.00	12,644.00	21,341.00	13,039.03	43.31	121.71	-102.374	-518.52	1,469.74	2,014.84	1,864.33	150.51	13.387	
13,200.00	12,644.00	21,341.00	13,039.03	43.39	121.71	-102.374	-518.52	1,469.74	2,057.25	1,907.08	150.17	13.700	
13,300.00	12,644.00	21,341.00	13,039.03	43.50	121.71	-102.374	-518.52	1,469.74	2,103.56	1,953.92	149.64	14.058	
13,400.00	12,644.00	21,341.00	13,039.03	43.63	121.71	-102.374	-518.52	1,469.74	2,153.52	2,004.58	148.94	14.459	
13,500.00	12,644.00	21,341.00	13,039.03	43.78	121.71	-102.374	-518.52	1,469.74	2,206.88	2,058.78	148.10	14.901	
13,600.00	12,644.00	21,341.00	13,039.03	43.96	121.71	-102.374	-518.52	1,469.74	2,263.40	2,116.25	147.15	15.381	
13,700.00	12,644.00	21,341.00	13,039.03	44.18	121.71	-102.374	-518.52	1,469.74	2,322.86	2,176.74	146.12	15.897	
13,800.00	12,644.00	21,341.00	13,039.03	44.44	121.71	-102.374	-518.52	1,469.74	2,385.03	2,240.01	145.02	16.446	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 514H - OH / 67734 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 174-MWD+HDGM+MS												Offset Well Error:	1.00 usft
Reference		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)			
13,900.00	12,644.00	21,341.00	13,039.03	44.74	121.71	-102.374	-518.52	1,469.74	2,449.70	2,305.83	143.87	17.027	
14,000.00	12,644.00	21,341.00	13,039.03	45.11	121.71	-102.374	-518.52	1,469.74	2,516.69	2,373.99	142.70	17.636	
14,100.00	12,644.00	21,341.00	13,039.03	45.54	121.71	-102.374	-518.52	1,469.74	2,585.81	2,444.30	141.51	18.273	
14,200.00	12,644.00	21,341.00	13,039.03	46.05	121.71	-102.374	-518.52	1,469.74	2,656.89	2,516.58	140.31	18.936	
14,300.00	12,644.00	21,341.00	13,039.03	46.65	121.71	-102.374	-518.52	1,469.74	2,729.79	2,590.67	139.12	19.621	
14,400.00	12,644.00	21,341.00	13,039.03	47.33	121.71	-102.374	-518.52	1,469.74	2,804.36	2,666.42	137.95	20.329	
14,500.00	12,644.00	21,341.00	13,039.03	48.09	121.71	-102.374	-518.52	1,469.74	2,880.47	2,743.68	136.79	21.058	
14,600.00	12,644.00	21,341.00	13,039.03	48.94	121.71	-102.374	-518.52	1,469.74	2,958.01	2,822.35	135.66	21.805	
14,700.00	12,644.00	21,341.00	13,039.03	49.86	121.71	-102.374	-518.52	1,469.74	3,036.86	2,902.30	134.55	22.570	
14,800.00	12,644.00	21,341.00	13,039.03	50.85	121.71	-102.374	-518.52	1,469.74	3,116.92	2,983.44	133.48	23.352	
14,900.00	12,644.00	21,341.00	13,039.03	51.89	121.71	-102.374	-518.52	1,469.74	3,198.10	3,065.67	132.44	24.148	
15,000.00	12,644.00	21,341.00	13,039.03	52.99	121.71	-102.374	-518.52	1,469.74	3,280.33	3,148.90	131.43	24.959	
15,100.00	12,644.00	21,341.00	13,039.03	54.12	121.71	-102.374	-518.52	1,469.74	3,363.51	3,233.06	130.45	25.783	
15,200.00	12,644.00	21,341.00	13,039.03	55.29	121.71	-102.374	-518.52	1,469.74	3,447.59	3,318.08	129.52	26.619	
15,300.00	12,644.00	21,341.00	13,039.03	56.49	121.71	-102.374	-518.52	1,469.74	3,532.50	3,403.89	128.61	27.466	
15,400.00	12,644.00	21,341.00	13,039.03	57.72	121.71	-102.374	-518.52	1,469.74	3,618.19	3,490.44	127.74	28.324	
15,500.00	12,644.00	21,341.00	13,039.03	58.96	121.71	-102.374	-518.52	1,469.74	3,704.59	3,577.67	126.91	29.191	
15,600.00	12,644.00	21,341.00	13,039.03	60.22	121.71	-102.374	-518.52	1,469.74	3,791.65	3,665.54	126.11	30.066	
15,700.00	12,644.00	21,341.00	13,039.03	61.50	121.71	-102.374	-518.52	1,469.74	3,879.34	3,754.00	125.34	30.950	
15,800.00	12,644.00	21,341.00	13,039.03	62.79	121.71	-102.374	-518.52	1,469.74	3,967.62	3,843.01	124.60	31.842	
15,900.00	12,644.00	21,341.00	13,039.03	64.09	121.71	-102.374	-518.52	1,469.74	4,056.44	3,932.54	123.90	32.740	
16,000.00	12,644.00	21,341.00	13,039.03	65.40	121.71	-102.374	-518.52	1,469.74	4,145.76	4,022.54	123.22	33.645	
16,100.00	12,644.00	21,341.00	13,039.03	66.72	121.71	-102.374	-518.52	1,469.74	4,235.57	4,112.99	122.57	34.555	
16,200.00	12,644.00	21,341.00	13,039.03	68.04	121.71	-102.374	-518.52	1,469.74	4,325.82	4,203.87	121.95	35.471	
16,300.00	12,644.00	21,341.00	13,039.03	69.38	121.71	-102.374	-518.52	1,469.74	4,416.49	4,295.13	121.36	36.391	
16,400.00	12,644.00	21,341.00	13,039.03	70.72	121.71	-102.374	-518.52	1,469.74	4,507.56	4,386.77	120.79	37.316	
16,500.00	12,644.00	21,341.00	13,039.03	72.07	121.71	-102.374	-518.52	1,469.74	4,599.00	4,478.75	120.25	38.245	
16,600.00	12,644.00	21,341.00	13,039.03	73.42	121.71	-102.374	-518.52	1,469.74	4,690.78	4,571.05	119.73	39.178	
16,700.00	12,644.00	21,341.00	13,039.03	74.77	121.71	-102.374	-518.52	1,469.74	4,782.90	4,663.67	119.23	40.114	
16,800.00	12,644.00	21,341.00	13,039.03	76.13	121.71	-102.374	-518.52	1,469.74	4,875.33	4,756.57	118.76	41.052	
16,900.00	12,644.00	21,341.00	13,039.03	77.49	121.71	-102.374	-518.52	1,469.74	4,968.05	4,849.74	118.30	41.994	
17,000.00	12,644.00	21,341.00	13,039.03	78.86	121.71	-102.374	-518.52	1,469.74	5,061.05	4,943.18	117.87	42.938	
17,100.00	12,644.00	21,341.00	13,039.03	80.23	121.71	-102.374	-518.52	1,469.74	5,154.31	5,036.85	117.45	43.884	
17,200.00	12,644.00	21,341.00	13,039.03	81.60	121.71	-102.374	-518.52	1,469.74	5,247.81	5,130.76	117.06	44.832	
17,300.00	12,644.00	21,341.00	13,039.03	82.98	121.71	-102.374	-518.52	1,469.74	5,341.56	5,224.88	116.68	45.781	
17,400.00	12,644.00	21,341.00	13,039.03	84.36	121.71	-102.374	-518.52	1,469.74	5,435.52	5,319.21	116.31	46.732	
17,500.00	12,644.00	21,341.00	13,039.03	85.74	121.71	-102.374	-518.52	1,469.74	5,529.70	5,413.73	115.97	47.684	
17,600.00	12,644.00	21,341.00	13,039.03	87.12	121.71	-102.374	-518.52	1,469.74	5,624.08	5,508.45	115.63	48.637	
17,700.00	12,644.00	21,341.00	13,039.03	88.51	121.71	-102.374	-518.52	1,469.74	5,718.65	5,603.33	115.32	49.591	
17,800.00	12,644.00	21,341.00	13,039.03	89.89	121.71	-102.374	-518.52	1,469.74	5,813.40	5,698.39	115.01	50.545	
17,900.00	12,644.00	21,341.00	13,039.03	91.28	121.71	-102.374	-518.52	1,469.74	5,908.33	5,793.60	114.72	51.500	
18,000.00	12,644.00	21,341.00	13,039.03	92.67	121.71	-102.374	-518.52	1,469.74	6,003.42	5,888.97	114.45	52.455	
18,100.00	12,644.00	21,341.00	13,039.03	94.07	121.71	-102.374	-518.52	1,469.74	6,098.66	5,984.48	114.18	53.411	
18,200.00	12,644.00	21,341.00	13,039.03	95.46	121.71	-102.374	-518.52	1,469.74	6,194.06	6,080.13	113.93	54.366	
18,300.00	12,644.00	21,341.00	13,039.03	96.85	121.71	-102.374	-518.52	1,469.74	6,289.60	6,175.91	113.69	55.322	
18,400.00	12,644.00	21,341.00	13,039.03	98.25	121.71	-102.374	-518.52	1,469.74	6,385.27	6,271.81	113.46	56.277	
18,500.00	12,644.00	21,341.00	13,039.03	99.65	121.71	-102.374	-518.52	1,469.74	6,481.08	6,367.84	113.24	57.232	
18,600.00	12,644.00	21,341.00	13,039.03	101.05	121.71	-102.374	-518.52	1,469.74	6,577.01	6,463.98	113.03	58.186	
18,700.00	12,644.00	21,341.00	13,039.03	102.45	121.71	-102.374	-518.52	1,469.74	6,673.06	6,560.23	112.84	59.140	
18,800.00	12,644.00	21,341.00	13,039.03	103.85	121.71	-102.374	-518.52	1,469.74	6,769.23	6,656.58	112.65	60.093	
18,900.00	12,644.00	21,341.00	13,039.03	105.25	121.71	-102.374	-518.52	1,469.74	6,865.50	6,753.04	112.47	61.046	
19,000.00	12,644.00	21,341.00	13,039.03	106.65	121.71	-102.374	-518.52	1,469.74	6,961.88	6,849.59	112.29	61.997	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 514H - OH / 67734 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 174-MWD+HDGM+MS												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				Reference	Offset		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
19,100.00	12,644.00	21,341.00	13,039.03	108.06	121.71	-102.374	-518.52	1,469.74	7,058.36	6,946.23	112.13	62.948	
19,200.00	12,644.00	21,341.00	13,039.03	109.46	121.71	-102.374	-518.52	1,469.74	7,154.94	7,042.97	111.97	63.898	
19,300.00	12,644.00	21,341.00	13,039.03	110.87	121.71	-102.374	-518.52	1,469.74	7,251.61	7,139.78	111.83	64.846	
19,400.00	12,644.00	21,341.00	13,039.03	112.28	121.71	-102.374	-518.52	1,469.74	7,348.37	7,236.68	111.69	65.794	
19,500.00	12,644.00	21,341.00	13,039.03	113.68	121.71	-102.374	-518.52	1,469.74	7,445.21	7,333.66	111.55	66.740	
19,600.00	12,644.00	21,341.00	13,039.03	115.09	121.71	-102.374	-518.52	1,469.74	7,542.14	7,430.71	111.43	67.685	
19,700.00	12,644.00	21,341.00	13,039.03	116.50	121.71	-102.374	-518.52	1,469.74	7,639.15	7,527.84	111.31	68.629	
19,800.00	12,644.00	21,341.00	13,039.03	117.91	121.71	-102.374	-518.52	1,469.74	7,736.23	7,625.03	111.20	69.572	
19,900.00	12,644.00	21,341.00	13,039.03	119.32	121.71	-102.374	-518.52	1,469.74	7,833.39	7,722.30	111.09	70.513	
20,000.00	12,644.00	21,341.00	13,039.03	120.73	121.71	-102.374	-518.52	1,469.74	7,930.61	7,819.62	110.99	71.452	
20,100.00	12,644.00	21,341.00	13,039.03	122.15	121.71	-102.374	-518.52	1,469.74	8,027.91	7,917.01	110.90	72.390	
20,200.00	12,644.00	21,341.00	13,039.03	123.56	121.71	-102.374	-518.52	1,469.74	8,125.27	8,014.46	110.81	73.326	
20,300.00	12,644.00	21,341.00	13,039.03	124.97	121.71	-102.374	-518.52	1,469.74	8,222.69	8,111.97	110.73	74.261	
20,400.00	12,644.00	21,341.00	13,039.03	126.38	121.71	-102.374	-518.52	1,469.74	8,320.18	8,209.53	110.65	75.194	
20,500.00	12,644.00	21,341.00	13,039.03	127.80	121.71	-102.374	-518.52	1,469.74	8,417.72	8,307.15	110.58	76.125	
20,600.00	12,644.00	21,341.00	13,039.03	129.21	121.71	-102.374	-518.52	1,469.74	8,515.32	8,404.81	110.51	77.055	
20,700.00	12,644.00	21,341.00	13,039.03	130.63	121.71	-102.374	-518.52	1,469.74	8,612.98	8,502.53	110.45	77.983	
20,800.00	12,644.00	21,341.00	13,039.03	132.04	121.71	-102.374	-518.52	1,469.74	8,710.69	8,600.30	110.39	78.909	
20,900.00	12,644.00	21,341.00	13,039.03	133.46	121.71	-102.374	-518.52	1,469.74	8,808.45	8,698.11	110.34	79.833	
21,000.00	12,644.00	21,341.00	13,039.03	134.88	121.71	-102.374	-518.52	1,469.74	8,906.26	8,795.97	110.29	80.755	
21,100.00	12,644.00	21,341.00	13,039.03	136.29	121.71	-102.374	-518.52	1,469.74	9,004.12	8,893.87	110.24	81.675	
21,200.00	12,644.00	21,341.00	13,039.03	137.71	121.71	-102.374	-518.52	1,469.74	9,102.02	8,991.82	110.20	82.593	
21,300.00	12,644.00	21,341.00	13,039.03	139.13	121.71	-102.374	-518.52	1,469.74	9,199.97	9,089.81	110.17	83.509	
21,400.00	12,644.00	21,341.00	13,039.03	140.54	121.71	-102.374	-518.52	1,469.74	9,297.97	9,187.83	110.13	84.424	
21,500.00	12,644.00	21,341.00	13,039.03	141.96	121.71	-102.374	-518.52	1,469.74	9,396.00	9,285.90	110.11	85.336	
21,600.00	12,644.00	21,341.00	13,039.03	143.38	121.71	-102.374	-518.52	1,469.74	9,494.08	9,384.00	110.08	86.246	
21,700.00	12,644.00	21,341.00	13,039.03	144.80	121.71	-102.374	-518.52	1,469.74	9,592.20	9,482.14	110.06	87.154	
21,800.00	12,644.00	21,341.00	13,039.03	146.22	121.71	-102.374	-518.52	1,469.74	9,690.35	9,580.31	110.04	88.060	
21,900.00	12,644.00	21,341.00	13,039.03	147.64	121.71	-102.374	-518.52	1,469.74	9,788.54	9,678.51	110.03	88.963	
22,000.00	12,644.00	21,341.00	13,039.03	149.06	121.71	-102.374	-518.52	1,469.74	9,886.77	9,776.75	110.02	89.865	
22,100.00	12,644.00	21,341.00	13,039.03	150.48	121.71	-102.374	-518.52	1,469.74	9,985.04	9,875.03	110.01	90.764	
22,199.47	12,644.00	21,341.00	13,039.03	151.89	121.71	-102.374	-518.52	1,469.74	10,082.82	9,972.81	110.01	91.656	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 214H - OH / 68221 - Surveys (H&P 474)													Offset Site Error:	0.00 usft	
Survey Program:		179-MWD+HDGM		Offset		Semi Maior Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.00	0.00	0.00	3.00	1.00	1.00	90.673	-15.18	1,292.23	1,292.33						
100.00	100.00	102.42	105.42	1.08	1.01	90.673	-15.18	1,292.02	1,292.12	1,290.02	2.10	616.370			
200.00	200.00	206.64	209.63	1.60	1.07	90.673	-15.18	1,291.37	1,291.50	1,288.83	2.67	484.478			
300.00	300.00	307.62	310.62	2.01	1.24	90.678	-15.27	1,290.59	1,290.73	1,287.48	3.25	397.113			
400.00	400.00	411.16	414.15	2.35	1.49	90.688	-15.47	1,289.56	1,289.73	1,285.89	3.84	335.582			
500.00	500.00	508.83	511.81	2.65	1.77	90.700	-15.74	1,288.53	1,288.68	1,284.26	4.42	291.560			
600.00	600.00	606.21	609.19	2.93	2.06	90.717	-16.11	1,287.81	1,287.94	1,282.95	4.99	258.134			
700.00	700.00	706.36	709.33	3.18	2.38	90.728	-16.35	1,287.04	1,287.18	1,281.62	5.56	231.475			
800.00	800.00	802.68	805.66	3.41	2.70	90.748	-16.79	1,286.45	1,286.57	1,280.46	6.11	210.496			
900.00	900.00	900.55	903.52	3.64	3.03	90.761	-17.09	1,286.14	1,286.26	1,279.60	6.66	193.119			
1,000.00	1,000.00	999.26	1,002.24	3.85	3.36	90.780	-17.52	1,285.90	1,286.02	1,278.81	7.20	178.524			
1,100.00	1,100.00	1,103.51	1,106.48	4.05	3.71	90.801	-17.96	1,285.62	1,285.76	1,278.00	7.76	165.687			
1,200.00	1,200.00	1,197.44	1,200.41	4.24	4.03	90.836	-18.75	1,285.24	1,285.38	1,277.10	8.27	155.356			
1,204.13	1,204.13	1,201.16	1,204.13	4.25	4.05	90.838	-18.79	1,285.24	1,285.38	1,277.08	8.29	154.975			
1,300.00	1,300.00	1,289.89	1,292.84	4.43	4.35	90.892	-20.02	1,285.52	1,285.69	1,276.92	8.77	146.531			
1,400.00	1,400.00	1,389.39	1,392.32	4.61	4.69	90.974	-21.86	1,286.14	1,286.35	1,277.06	9.29	138.432			
1,500.00	1,500.00	1,497.88	1,500.80	4.78	5.06	91.049	-23.55	1,286.48	1,286.69	1,276.85	9.84	130.745			
1,512.23	1,512.23	1,511.62	1,514.54	4.80	5.11	-114.927	-23.70	1,286.46	1,286.69	1,276.78	9.91	129.887			
1,600.00	1,599.98	1,613.71	1,616.63	4.98	5.46	-114.978	-24.31	1,285.72	1,286.80	1,276.41	10.38	123.917			
1,700.00	1,699.84	1,728.13	1,731.03	5.60	5.86	-115.226	-23.98	1,283.59	1,287.14	1,276.14	11.00	116.976			
1,718.18	1,717.96	1,748.61	1,751.50	5.62	5.93	-115.289	-23.86	1,283.07	1,287.25	1,276.17	11.08	116.196			
1,800.00	1,799.55	1,842.14	1,844.98	5.72	6.26	-115.594	-23.41	1,280.24	1,287.45	1,275.97	11.48	112.164			
1,900.00	1,899.26	1,952.64	1,955.39	5.89	6.65	-115.954	-22.88	1,275.68	1,286.61	1,274.61	12.00	107.217			
2,000.00	1,998.97	2,052.27	2,054.93	6.09	7.00	-116.287	-22.23	1,271.38	1,285.64	1,273.14	12.50	102.866			
2,100.00	2,098.68	2,153.30	2,155.85	6.30	7.35	-116.626	-21.54	1,266.91	1,284.60	1,271.60	13.01	98.768			
2,200.00	2,198.39	2,261.86	2,264.29	6.53	7.74	-116.985	-20.92	1,261.85	1,283.39	1,269.84	13.54	94.751			
2,300.00	2,298.10	2,380.37	2,382.60	6.77	8.16	-117.336	-21.24	1,254.93	1,281.02	1,266.90	14.12	90.720			
2,400.00	2,397.81	2,475.50	2,477.53	7.02	8.50	-117.594	-22.05	1,248.80	1,278.06	1,263.43	14.63	87.374			
2,500.00	2,497.52	2,574.00	2,575.84	7.28	8.86	-117.867	-22.78	1,242.72	1,275.39	1,260.24	15.15	84.187			
2,600.00	2,597.23	2,672.47	2,674.12	7.55	9.21	-118.140	-23.54	1,236.72	1,272.85	1,257.17	15.68	81.197			
2,700.00	2,696.94	2,766.64	2,768.13	7.83	9.55	-118.399	-24.32	1,231.27	1,270.62	1,254.43	16.19	78.468			
2,800.00	2,796.65	2,861.39	2,862.74	8.12	9.89	-118.662	-25.06	1,226.18	1,268.85	1,252.14	16.72	75.909			
2,900.00	2,896.36	2,961.19	2,962.40	8.42	10.26	-118.941	-25.78	1,221.03	1,267.33	1,250.07	17.26	73.431			
3,000.00	2,996.07	3,066.67	3,067.72	8.72	10.64	-119.217	-27.01	1,215.30	1,265.53	1,247.70	17.82	70.999			
3,100.00	3,095.78	3,164.42	3,165.31	9.03	10.99	-119.455	-28.57	1,209.90	1,263.65	1,245.28	18.37	68.794			
3,200.00	3,195.49	3,259.58	3,260.33	9.34	11.34	-119.683	-30.16	1,204.91	1,262.06	1,243.15	18.91	66.751			
3,300.00	3,295.20	3,352.40	3,353.02	9.66	11.67	-119.899	-31.83	1,200.48	1,260.96	1,241.52	19.44	64.863			
3,400.00	3,394.91	3,442.78	3,443.31	9.98	12.00	-120.108	-33.45	1,196.74	1,260.51	1,240.55	19.97	63.128			
3,402.06	3,396.96	3,444.55	3,445.08	9.98	12.01	-120.112	-33.48	1,196.67	1,260.51	1,240.54	19.98	63.095			
3,500.00	3,494.62	3,530.02	3,530.50	10.30	12.32	-120.312	-34.91	1,193.97	1,261.05	1,240.57	20.49	61.559			
3,600.00	3,594.33	3,628.10	3,628.53	10.63	12.67	-120.567	-35.93	1,191.32	1,262.13	1,241.08	21.05	59.971			
3,700.00	3,694.04	3,725.83	3,726.23	10.96	13.02	-120.811	-37.16	1,188.84	1,263.39	1,241.78	21.61	58.471			
3,800.00	3,793.75	3,825.49	3,825.84	11.29	13.38	-121.032	-39.01	1,186.51	1,264.81	1,242.63	22.18	57.031			
3,900.00	3,893.47	3,932.10	3,932.40	11.63	13.76	-121.275	-40.85	1,183.71	1,265.98	1,243.20	22.78	55.581			
4,000.00	3,993.18	4,035.85	4,036.08	11.97	14.13	-121.521	-42.46	1,180.37	1,266.59	1,243.22	23.37	54.197			
4,100.00	4,092.89	4,132.08	4,132.25	12.31	14.48	-121.746	-44.02	1,177.37	1,267.32	1,243.38	23.94	52.942			
4,200.00	4,192.60	4,226.07	4,226.19	12.65	14.82	-121.963	-45.57	1,174.78	1,268.43	1,243.93	24.50	51.774			
4,300.00	4,292.31	4,326.80	4,326.88	13.00	15.18	-122.190	-47.31	1,172.41	1,269.96	1,244.87	25.09	50.619			
4,400.00	4,392.02	4,435.36	4,435.38	13.34	15.57	-122.448	-48.94	1,169.23	1,270.95	1,245.24	25.71	49.432			
4,500.00	4,491.73	4,527.05	4,527.01	13.69	15.90	-122.666	-50.31	1,166.36	1,271.78	1,245.51	26.27	48.407			
4,600.00	4,591.44	4,617.13	4,617.06	14.04	16.23	-122.861	-51.99	1,164.45	1,273.57	1,246.74	26.83	47.474			
4,700.00	4,691.15	4,727.79	4,727.66	14.39	16.62	-123.072	-54.65	1,162.34	1,275.55	1,248.09	27.46	46.452			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 214H - OH / 68221 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 179-MWD+HDCM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Offset												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,800.00	4,790.86	4,816.85	4,816.67	14.74	16.94	-123.235	-56.96	1,160.22	1,277.06	1,249.05	28.01	45.591	
4,900.00	4,890.57	4,899.73	4,899.52	15.10	17.23	-123.383	-59.07	1,159.36	1,279.89	1,251.36	28.53	44.855	
5,000.00	4,990.28	5,003.74	5,003.48	15.45	17.60	-123.551	-61.95	1,159.20	1,283.60	1,254.46	29.14	44.049	
5,100.00	5,089.99	5,112.42	5,112.12	15.81	17.98	-123.742	-64.76	1,157.97	1,286.34	1,256.56	29.77	43.207	
5,200.00	5,189.70	5,224.98	5,224.64	16.16	18.39	-123.975	-66.96	1,155.79	1,288.40	1,257.97	30.43	42.345	
5,300.00	5,289.41	5,318.60	5,318.22	16.52	18.72	-124.175	-68.68	1,153.72	1,290.22	1,259.21	31.01	41.607	
5,400.00	5,389.12	5,424.12	5,423.70	16.88	19.10	-124.386	-70.87	1,151.75	1,292.38	1,260.74	31.64	40.846	
5,500.00	5,488.83	5,625.83	5,624.92	17.24	19.84	-124.887	-74.11	1,139.26	1,290.59	1,258.00	32.59	39.601	
5,600.00	5,588.54	5,753.92	5,752.10	17.59	20.31	-125.224	-76.91	1,124.20	1,282.88	1,249.60	33.28	38.550	
5,700.00	5,688.25	5,846.26	5,843.70	17.95	20.66	-125.469	-79.05	1,112.78	1,274.68	1,240.79	33.89	37.613	
5,800.00	5,787.96	5,942.27	5,939.01	18.32	21.02	-125.722	-81.30	1,101.46	1,267.06	1,232.55	34.51	36.716	
5,900.00	5,887.67	6,041.95	6,037.99	18.68	21.39	-125.982	-83.73	1,089.83	1,259.56	1,224.42	35.14	35.843	
6,000.00	5,987.38	6,141.14	6,136.47	19.04	21.77	-126.239	-86.27	1,078.26	1,252.09	1,216.32	35.77	35.000	
6,100.00	6,087.09	6,234.48	6,229.17	19.40	22.12	-126.472	-88.84	1,067.66	1,244.90	1,208.50	36.39	34.206	
6,200.00	6,186.80	6,355.14	6,348.88	19.76	22.57	-126.723	-93.47	1,053.35	1,237.03	1,199.96	37.07	33.368	
6,300.00	6,286.51	6,453.56	6,446.42	20.13	22.95	-126.886	-98.32	1,041.16	1,228.46	1,190.76	37.70	32.587	
6,400.00	6,386.22	6,549.35	6,541.38	20.49	23.32	-127.043	-103.08	1,029.51	1,220.12	1,181.80	38.32	31.839	
6,500.00	6,485.93	6,645.70	6,636.93	20.86	23.68	-127.203	-107.81	1,018.10	1,212.12	1,173.18	38.95	31.122	
6,600.00	6,585.64	6,745.55	6,735.97	21.22	24.07	-127.366	-112.78	1,006.39	1,204.23	1,164.65	39.58	30.424	
6,700.00	6,685.35	6,845.48	6,835.09	21.59	24.45	-127.537	-117.67	994.61	1,196.31	1,156.09	40.22	29.745	
6,800.00	6,785.06	6,943.40	6,932.21	21.95	24.83	-127.707	-122.43	983.11	1,188.44	1,147.58	40.86	29.089	
6,900.00	6,884.77	7,038.61	7,026.68	22.32	25.19	-127.868	-127.14	972.19	1,180.83	1,139.35	41.49	28.463	
7,000.00	6,984.48	7,132.58	7,119.97	22.68	25.55	-128.032	-131.64	961.82	1,173.71	1,131.59	42.12	27.868	
7,100.00	7,084.19	7,236.76	7,223.42	23.05	25.95	-128.230	-136.31	950.55	1,166.87	1,124.09	42.77	27.280	
7,200.00	7,183.90	7,345.29	7,331.11	23.42	26.37	-128.536	-139.46	937.42	1,159.11	1,115.65	43.46	26.672	
7,300.00	7,283.61	7,441.99	7,427.03	23.78	26.74	-128.838	-141.80	925.39	1,151.16	1,107.04	44.12	26.089	
7,400.00	7,383.32	7,535.27	7,519.61	24.15	27.09	-129.128	-144.07	914.24	1,143.72	1,098.93	44.79	25.538	
7,500.00	7,483.03	7,626.71	7,610.44	24.52	27.44	-129.422	-146.04	903.82	1,136.92	1,091.47	45.44	25.018	
7,600.00	7,582.74	7,739.41	7,722.39	24.89	27.88	-129.784	-148.53	891.13	1,130.31	1,084.15	46.16	24.487	
7,700.00	7,682.45	7,852.64	7,834.66	25.25	28.31	-130.100	-152.47	876.92	1,122.13	1,075.27	46.86	23.945	
7,800.00	7,782.16	7,933.47	7,914.83	25.62	28.63	-130.300	-155.73	867.15	1,114.30	1,066.80	47.50	23.459	
7,900.00	7,881.87	8,018.68	7,999.49	25.99	28.95	-130.507	-159.01	858.11	1,107.96	1,059.82	48.14	23.015	
8,000.00	7,981.58	8,131.28	8,111.40	26.36	29.39	-130.770	-163.51	846.54	1,101.98	1,053.13	48.85	22.560	
8,100.00	8,081.29	8,228.00	8,207.45	26.73	29.76	-130.978	-167.90	836.05	1,095.29	1,045.77	49.51	22.121	
8,200.00	8,181.00	8,308.10	8,287.09	27.10	30.06	-131.156	-171.27	828.17	1,089.66	1,039.52	50.14	21.733	
8,300.00	8,280.71	8,436.75	8,414.95	27.47	30.56	-131.498	-175.83	814.78	1,083.72	1,032.82	50.90	21.292	
8,400.00	8,380.42	8,532.58	8,510.04	27.84	30.93	-131.792	-178.95	803.31	1,076.34	1,024.75	51.59	20.864	
8,500.00	8,480.13	8,613.61	8,590.57	28.21	31.24	-132.041	-181.34	794.60	1,070.24	1,018.00	52.24	20.486	
8,600.00	8,579.84	8,701.00	8,677.54	28.58	31.57	-132.315	-183.55	786.37	1,065.58	1,012.67	52.91	20.139	
8,700.00	8,679.55	8,791.12	8,767.32	28.95	31.91	-132.607	-185.42	778.73	1,061.98	1,008.40	53.59	19.818	
8,800.00	8,779.26	8,882.89	8,858.80	29.32	32.26	-132.910	-187.04	771.66	1,059.26	1,004.99	54.27	19.519	
8,900.00	8,878.97	8,980.09	8,955.73	29.69	32.62	-133.232	-188.62	764.66	1,057.08	1,002.11	54.97	19.229	
9,000.00	8,978.68	9,073.34	9,048.75	30.06	32.96	-133.543	-190.01	758.30	1,055.34	999.68	55.66	18.960	
9,100.00	9,078.39	9,160.77	9,136.02	30.43	33.28	-133.833	-191.11	753.08	1,054.52	998.20	56.33	18.722	
9,115.28	9,093.63	9,174.00	9,149.23	30.49	33.33	-133.876	-191.27	752.38	1,054.51	998.08	56.43	18.688 CC	
9,200.00	9,178.10	9,250.42	9,225.56	30.80	33.61	-134.127	-192.01	748.69	1,054.84	997.85	57.00	18.507 ES	
9,300.00	9,277.81	9,339.82	9,314.88	31.17	33.93	-134.426	-192.54	745.09	1,056.15	998.48	57.66	18.315	
9,400.00	9,377.52	9,417.20	9,392.23	31.54	34.20	-134.675	-192.80	743.03	1,058.90	1,000.64	58.25	18.178	
9,500.00	9,477.23	9,496.48	9,471.51	31.91	34.47	-134.892	-193.10	742.94	1,064.00	1,005.18	58.82	18.089	
9,600.00	9,576.94	9,586.06	9,561.08	32.29	34.75	-135.110	-193.51	744.13	1,070.48	1,011.05	59.43	18.013	
9,700.00	9,676.65	9,682.16	9,657.17	32.66	35.06	-135.323	-194.08	746.06	1,077.58	1,017.52	60.07	17.939	
9,800.00	9,776.36	9,785.91	9,760.89	33.03	35.38	-135.526	-195.10	748.33	1,084.75	1,023.99	60.76	17.854	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 214H - OH / 68221 - Surveys (H&P 474)													Offset Site Error:	0.00 usft	
Survey Program:		179-MWD+HDCM		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
9,900.00	9,876.07	9,891.23	9,866.17	33.40	35.72	-135.695	-196.98	750.20	1,091.25	1,029.81	61.45	17.759			
10,000.00	9,975.78	9,999.56	9,974.48	33.77	36.08	-135.883	-198.79	751.58	1,097.36	1,035.19	62.17	17.652			
10,100.00	10,075.49	10,097.24	10,072.15	34.14	36.41	-136.179	-198.28	751.45	1,102.90	1,040.03	62.86	17.545			
10,200.00	10,175.20	10,195.28	10,170.19	34.52	36.73	-136.508	-197.01	751.42	1,108.84	1,045.27	63.57	17.444			
10,300.00	10,274.91	10,290.71	10,265.60	34.89	37.04	-136.819	-195.83	751.61	1,115.00	1,050.76	64.25	17.355			
10,400.00	10,374.62	10,392.74	10,367.63	35.26	37.37	-137.113	-195.14	752.22	1,121.37	1,056.41	64.96	17.263			
10,500.00	10,474.33	10,500.85	10,475.73	35.63	37.72	-137.366	-195.58	752.81	1,127.33	1,061.64	65.70	17.159			
10,600.00	10,574.04	11,038.88	10,883.69	36.01	39.44	-123.387	-494.83	766.16	1,116.38	1,053.76	62.63	17.826			
10,700.00	10,673.75	11,115.40	10,910.99	36.38	39.71	-119.727	-566.27	764.75	1,095.20	1,032.78	62.42	17.546			
10,800.00	10,773.46	11,186.12	10,932.06	36.75	39.98	-116.224	-633.71	762.06	1,080.12	1,017.99	62.13	17.386			
10,900.00	10,873.18	11,220.95	10,940.43	37.12	40.12	-114.454	-667.48	760.55	1,072.81	1,010.75	62.06	17.287			
10,935.97	10,909.04	11,229.63	10,942.23	37.26	40.15	-114.008	-675.97	760.19	1,072.25	1,010.22	62.02	17.288			
11,000.00	10,972.89	11,242.85	10,944.73	37.50	40.21	-113.325	-688.94	759.66	1,074.05	1,012.14	61.91	17.349			
11,100.00	11,072.60	11,259.64	10,947.47	37.87	40.27	-112.453	-705.49	759.06	1,084.11	1,022.51	61.61	17.598			
11,200.00	11,172.31	11,269.00	10,948.80	38.24	40.31	-111.965	-714.75	758.74	1,102.90	1,041.70	61.19	18.023			
11,300.00	11,272.02	11,282.17	10,950.40	38.62	40.37	-111.275	-727.82	758.35	1,130.04	1,069.43	60.61	18.644			
11,381.30	11,353.08	11,288.90	10,951.11	38.92	40.39	-110.923	-734.51	758.18	1,157.92	1,097.82	60.10	19.266			
11,400.00	11,371.73	11,290.30	10,951.25	38.98	40.40	-110.992	-735.90	758.15	1,165.01	1,105.03	59.98	19.424			
11,500.00	11,471.59	11,296.37	10,951.80	39.34	40.42	-111.522	-741.94	758.02	1,206.43	1,147.16	59.27	20.353			
11,599.47	11,571.04	11,300.36	10,952.13	39.49	40.44	93.688	-745.92	757.94	1,253.06	1,194.57	58.48	21.427			
11,600.00	11,571.57	11,300.38	10,952.14	39.49	40.44	93.689	-745.93	757.94	1,253.32	1,194.84	58.48	21.433			
11,700.00	11,671.57	11,316.00	10,953.16	39.52	40.50	94.507	-761.52	757.69	1,305.80	1,248.19	57.60	22.668			
11,800.00	11,771.57	11,316.00	10,953.16	39.52	40.50	94.507	-761.52	757.69	1,363.37	1,306.48	56.90	23.962			
11,900.00	11,871.57	11,316.00	10,953.16	39.53	40.50	94.507	-761.52	757.69	1,425.65	1,369.38	56.27	25.336			
12,000.00	11,971.57	11,316.00	10,953.16	39.54	40.50	94.507	-761.52	757.69	1,492.03	1,436.30	55.73	26.771			
12,099.47	12,071.04	11,316.00	10,953.16	39.54	40.50	94.507	-761.52	757.69	1,561.62	1,506.33	55.28	28.247			
12,100.00	12,071.57	11,316.00	10,953.16	39.55	40.50	-84.886	-761.52	757.69	1,561.99	1,506.71	55.28	28.255			
12,150.00	12,121.50	11,316.00	10,953.16	39.65	40.50	-79.746	-761.52	757.69	1,598.00	1,542.89	55.10	29.001			
12,200.00	12,171.05	11,316.00	10,953.16	39.91	40.50	-74.627	-761.52	757.69	1,634.21	1,579.24	54.97	29.729			
12,250.00	12,219.84	11,316.00	10,953.16	40.20	40.50	-69.650	-761.52	757.69	1,670.35	1,615.48	54.88	30.438			
12,300.00	12,267.50	11,336.55	10,954.14	40.50	40.59	-64.094	-782.04	757.42	1,705.98	1,651.17	54.80	31.129			
12,350.00	12,313.66	11,350.17	10,954.67	40.80	40.65	-59.290	-795.65	757.21	1,740.89	1,686.11	54.77	31.784			
12,400.00	12,357.98	11,365.89	10,955.17	41.09	40.71	-54.909	-811.36	756.94	1,774.74	1,719.97	54.77	32.401			
12,450.00	12,400.11	11,395.00	10,955.78	41.38	40.84	-50.685	-840.46	756.38	1,807.32	1,752.52	54.80	32.980			
12,500.00	12,439.74	11,406.50	10,955.93	41.66	40.89	-47.450	-851.96	756.14	1,838.18	1,783.31	54.86	33.504			
12,550.00	12,476.56	11,437.29	10,956.26	41.92	41.03	-44.269	-882.74	755.46	1,867.11	1,812.15	54.96	33.975			
12,600.00	12,510.29	11,470.61	10,956.51	42.16	41.18	-41.550	-916.05	754.68	1,893.75	1,838.68	55.07	34.385			
12,650.00	12,540.68	11,507.66	10,956.66	42.39	41.35	-39.235	-953.09	753.75	1,917.85	1,862.63	55.23	34.727			
12,700.00	12,567.50	11,548.73	10,956.73	42.58	41.56	-37.293	-994.14	752.63	1,939.14	1,883.73	55.41	34.995			
12,750.00	12,590.54	11,585.00	10,956.71	42.76	41.74	-35.769	-1,030.40	751.57	1,957.40	1,901.79	55.61	35.196			
12,800.00	12,609.63	11,628.43	10,956.69	42.91	41.97	-34.521	-1,073.81	750.51	1,972.53	1,916.66	55.86	35.310			
12,850.00	12,624.61	11,667.42	10,956.73	43.03	42.17	-33.615	-1,112.80	749.99	1,984.46	1,928.34	56.13	35.358			
12,900.00	12,635.39	11,704.51	10,956.78	43.12	42.38	-32.992	-1,149.89	749.84	1,993.12	1,936.71	56.41	35.332			
12,950.00	12,641.87	11,740.95	10,956.69	43.19	42.58	-32.618	-1,186.32	749.93	1,998.48	1,941.76	56.72	35.237			
12,999.47	12,644.00	11,786.08	10,956.43	43.23	42.84	-32.480	-1,231.45	750.34	2,000.50	1,943.44	57.06	35.058			
13,000.00	12,644.00	11,787.51	10,956.43	43.24	42.85	-32.480	-1,232.88	750.36	2,000.50	1,943.43	57.07	35.054			
13,100.00	12,644.00	11,976.64	10,961.93	43.31	44.04	-32.582	-1,421.89	752.90	1,997.96	1,939.72	58.24	34.307			
13,200.00	12,644.00	12,057.00	10,965.62	43.39	44.59	-32.661	-1,502.15	754.56	1,994.62	1,935.74	58.87	33.880			
13,300.00	12,644.00	12,140.03	10,968.97	43.50	45.18	-32.744	-1,585.09	756.63	1,992.01	1,932.44	59.57	33.440			
13,400.00	12,644.00	12,224.96	10,971.93	43.63	45.81	-32.826	-1,669.93	758.98	1,990.05	1,929.73	60.32	32.992			
13,500.00	12,644.00	12,311.87	10,974.29	43.78	46.47	-32.905	-1,756.77	761.53	1,988.84	1,927.71	61.12	32.537			
13,600.00	12,644.00	12,397.41	10,975.90	43.96	47.14	-32.969	-1,842.26	763.96	1,988.28	1,926.32	61.96	32.091			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 214H - OH / 68221 - Surveys (H&P 474)													Offset Site Error:	0.00 usft	
Survey Program:		179-MWD+HDCM <th colspan="2">Offset</th> <th colspan="2">Semi Major Axis</th> <th colspan="2">Offset Wellbore Centre</th> <th colspan="4">Rule Assigned:</th> <th>Offset Well Error:</th> <td>1.00 usft</td>		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
13,622.08	12,644.00	12,416.04	10,976.14	44.01	47.29	-32.981	-1,860.89	764.47	1,988.26	1,926.12	62.15	31.994			
13,700.00	12,644.00	12,474.47	10,976.47	44.18	47.77	-33.009	-1,919.29	766.00	1,988.60	1,925.85	62.75	31.689			
13,800.00	12,644.00	12,546.91	10,975.54	44.44	48.37	-33.015	-1,991.71	767.55	1,990.31	1,926.78	63.53	31.329			
13,900.00	12,644.00	12,626.00	10,973.49	44.74	49.05	-33.008	-2,070.75	769.37	1,993.21	1,928.83	64.38	30.960			
14,000.00	12,644.00	12,777.05	10,971.96	45.11	50.38	-33.032	-2,221.75	772.82	1,994.49	1,928.56	65.93	30.252			
14,100.00	12,644.00	12,867.71	10,971.69	45.54	51.21	-33.061	-2,312.38	775.05	1,995.55	1,928.56	66.99	29.789			
14,200.00	12,644.00	12,957.52	10,971.15	46.05	52.05	-33.095	-2,402.15	777.69	1,997.14	1,929.05	68.08	29.334			
14,300.00	12,644.00	13,082.95	10,969.93	46.65	53.25	-33.117	-2,527.53	780.60	1,998.78	1,929.20	69.58	28.725			
14,400.00	12,644.00	13,169.87	10,969.00	47.33	54.11	-33.093	-2,614.45	781.08	1,999.48	1,928.79	70.69	28.286			
14,500.00	12,644.00	13,245.91	10,967.23	48.09	54.87	-33.060	-2,690.47	781.59	2,001.27	1,929.59	71.69	27.917			
14,600.00	12,644.00	13,420.73	10,965.39	48.94	56.66	-33.047	-2,865.22	783.92	2,002.76	1,928.85	73.91	27.097			
14,700.00	12,644.00	13,537.76	10,969.37	49.86	57.89	-33.154	-2,982.14	786.92	2,000.74	1,925.16	75.58	26.471			
14,800.00	12,644.00	13,631.34	10,972.48	50.85	58.89	-33.232	-3,075.65	789.04	1,998.68	1,921.71	76.97	25.966			
14,900.00	12,644.00	13,726.20	10,975.00	51.89	59.92	-33.295	-3,170.46	790.91	1,997.00	1,918.60	78.40	25.473			
15,000.00	12,644.00	13,816.07	10,977.00	52.99	60.90	-33.343	-3,260.29	792.49	1,995.59	1,915.82	79.77	25.018			
15,100.00	12,644.00	13,908.32	10,978.16	54.12	61.92	-33.371	-3,352.52	793.79	1,994.77	1,913.60	81.18	24.574			
15,198.79	12,644.00	13,993.19	10,978.79	55.28	62.87	-33.386	-3,437.38	794.80	1,994.30	1,911.81	82.49	24.177			
15,200.00	12,644.00	13,994.12	10,978.79	55.29	62.88	-33.386	-3,438.31	794.81	1,994.30	1,911.80	82.50	24.172			
15,300.00	12,644.00	14,073.94	10,977.92	56.49	63.78	-33.361	-3,518.13	795.10	1,994.87	1,911.15	83.73	23.826			
15,400.00	12,644.00	14,159.37	10,975.80	57.72	64.76	-33.301	-3,603.53	794.84	1,996.26	1,911.24	85.02	23.481			
15,500.00	12,644.00	14,296.62	10,971.85	58.96	66.34	-33.197	-3,740.72	794.41	1,998.29	1,911.23	87.06	22.953			
15,600.00	12,644.00	14,412.16	10,972.38	60.22	67.68	-33.171	-3,856.26	794.09	1,997.13	1,908.26	88.87	22.472			
15,700.00	12,644.00	14,506.15	10,972.41	61.50	68.79	-33.143	-3,950.24	793.83	1,996.42	1,906.05	90.37	22.092			
15,800.00	12,644.00	14,599.78	10,971.87	62.79	69.89	-33.097	-4,043.87	793.17	1,995.99	1,904.13	91.86	21.729			
15,841.26	12,644.00	14,635.82	10,971.44	63.32	70.32	-33.072	-4,079.90	792.75	1,995.93	1,903.50	92.43	21.594			
15,900.00	12,644.00	14,685.24	10,970.58	64.09	70.91	-33.032	-4,129.32	792.13	1,996.07	1,902.86	93.21	21.414			
16,000.00	12,644.00	14,766.93	10,968.47	65.40	71.89	-32.953	-4,210.97	791.02	1,996.98	1,902.48	94.49	21.133			
16,100.00	12,644.00	14,847.58	10,965.44	66.72	72.86	-32.860	-4,291.55	789.89	1,998.85	1,903.10	95.75	20.876			
16,200.00	12,644.00	14,956.36	10,960.42	68.04	74.19	-32.717	-4,400.20	788.23	2,001.42	1,903.99	97.43	20.543			
16,300.00	12,644.00	15,064.86	10,956.18	69.38	75.51	-32.564	-4,508.59	785.65	2,002.88	1,903.78	99.10	20.211			
16,400.00	12,644.00	15,206.90	10,952.87	70.72	77.26	-32.411	-4,650.55	782.78	2,003.21	1,901.85	101.35	19.765			
16,500.00	12,644.00	15,295.38	10,951.66	72.07	78.35	-32.333	-4,739.01	781.18	2,002.88	1,900.09	102.79	19.486			
16,501.38	12,644.00	15,296.55	10,951.64	72.08	78.37	-32.332	-4,740.17	781.15	2,002.88	1,900.07	102.80	19.482			
16,600.00	12,644.00	15,379.04	10,949.75	73.42	79.39	-32.245	-4,822.63	779.57	2,003.27	1,899.14	104.13	19.239			
16,700.00	12,644.00	15,463.00	10,946.96	74.77	80.44	-32.145	-4,906.53	777.99	2,004.55	1,899.09	105.46	19.008			
16,800.00	12,644.00	15,591.40	10,943.74	76.13	82.05	-32.012	-5,034.87	775.76	2,005.19	1,897.64	107.55	18.645			
16,900.00	12,644.00	15,679.65	10,941.94	77.49	83.16	-31.934	-5,123.09	774.49	2,005.64	1,896.65	108.99	18.402			
17,000.00	12,644.00	15,763.34	10,939.69	78.86	84.22	-31.857	-5,206.74	773.56	2,006.83	1,896.48	110.35	18.186			
17,100.00	12,644.00	15,842.00	10,937.58	80.23	85.22	-31.816	-5,285.37	773.92	2,008.86	1,897.20	111.66	17.991			
17,200.00	12,644.00	15,936.00	10,934.87	81.60	86.42	-31.792	-5,379.32	775.51	2,011.70	1,898.42	113.28	17.759			
17,300.00	12,644.00	16,021.40	10,931.93	82.98	87.52	-31.769	-5,464.65	777.23	2,015.15	1,900.41	114.74	17.562			
17,400.00	12,644.00	16,108.27	10,928.48	84.36	88.64	-31.743	-5,551.43	779.09	2,019.15	1,902.92	116.23	17.372			
17,500.00	12,644.00	16,205.50	10,923.93	85.74	89.89	-31.695	-5,648.54	780.89	2,023.60	1,905.70	117.89	17.165			
17,600.00	12,644.00	16,296.27	10,919.24	87.12	91.07	-31.636	-5,739.18	782.21	2,028.25	1,908.84	119.41	16.985			
17,700.00	12,644.00	16,450.38	10,912.57	88.51	93.07	-31.539	-5,893.13	783.75	2,032.03	1,909.90	122.14	16.637			
17,800.00	12,644.00	16,578.94	10,910.25	89.89	94.75	-31.498	-6,021.67	784.70	2,033.42	1,908.99	124.42	16.343			
17,900.00	12,644.00	16,677.37	10,909.71	91.28	96.03	-31.505	-6,120.08	786.28	2,034.22	1,908.01	126.21	16.117			
18,000.00	12,644.00	16,764.11	10,908.88	92.67	97.17	-31.509	-6,206.81	787.78	2,035.43	1,907.66	127.78	15.929			
18,100.00	12,644.00	16,842.32	10,907.54	94.07	98.20	-31.510	-6,284.98	789.40	2,037.49	1,908.32	129.17	15.773			
18,200.00	12,644.00	16,981.98	10,904.41	95.46	100.04	-31.485	-6,424.58	791.64	2,039.97	1,908.23	131.73	15.486			
18,300.00	12,644.00	17,083.53	10,903.06	96.85	101.38	-31.455	-6,526.12	792.21	2,040.89	1,907.34	133.55	15.282			
18,400.00	12,644.00	17,238.27	10,905.80	98.25	103.43	-31.520	-6,680.81	794.71	2,039.47	1,902.97	136.50	14.941			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 214H - OH / 68221 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 179-MWD+HDMG												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)			
18,500.00	12,644.00	17,338.99	10,909.02	99.65	104.78	-31.595	-6,781.45	796.83	2,037.34	1,898.87	138.48	14.713	
18,600.00	12,644.00	17,432.27	10,911.70	101.05	106.02	-31.655	-6,874.68	798.61	2,035.39	1,895.09	140.30	14.507	
18,700.00	12,644.00	17,535.63	10,914.32	102.45	107.40	-31.710	-6,977.99	800.30	2,033.59	1,891.28	142.31	14.290	
18,800.00	12,644.00	17,627.95	10,916.54	103.85	108.64	-31.755	-7,070.27	801.68	2,031.82	1,887.72	144.10	14.100	
18,900.00	12,644.00	17,720.02	10,918.32	105.25	109.88	-31.794	-7,162.32	803.08	2,030.47	1,884.58	145.89	13.918	
19,000.00	12,644.00	17,803.92	10,919.12	106.65	111.00	-31.806	-7,246.21	803.90	2,029.67	1,882.20	147.47	13.763	
19,048.89	12,644.00	17,845.28	10,919.06	107.34	111.56	-31.799	-7,287.57	804.06	2,029.59	1,881.35	148.23	13.692	
19,100.00	12,644.00	17,889.84	10,918.77	108.06	112.15	-31.787	-7,332.12	804.18	2,029.67	1,880.63	149.04	13.618	
19,200.00	12,644.00	17,983.01	10,917.66	109.46	113.40	-31.751	-7,425.29	804.25	2,030.21	1,879.49	150.73	13.469	
19,300.00	12,644.00	18,081.85	10,916.29	110.87	114.73	-31.710	-7,524.12	804.33	2,030.92	1,878.41	152.51	13.316	
19,400.00	12,644.00	18,178.55	10,915.22	112.28	116.04	-31.686	-7,620.81	804.94	2,031.70	1,877.41	154.29	13.168	
19,500.00	12,644.00	18,261.79	10,913.88	113.68	117.16	-31.660	-7,704.04	805.48	2,032.91	1,877.12	155.79	13.049	
19,600.00	12,644.00	18,368.75	10,911.38	115.09	118.61	-31.616	-7,810.96	806.21	2,034.77	1,877.03	157.74	12.900	
19,700.00	12,644.00	18,467.52	10,910.27	116.50	119.95	-31.612	-7,909.72	807.68	2,036.01	1,876.41	159.60	12.757	
19,800.00	12,644.00	18,597.05	10,909.65	117.91	121.71	-31.632	-8,039.21	810.15	2,036.97	1,874.85	162.12	12.565	
19,900.00	12,644.00	18,734.19	10,912.27	119.32	123.57	-31.695	-8,176.31	812.48	2,035.62	1,870.77	164.85	12.349	
20,000.00	12,644.00	18,808.00	10,914.10	120.73	124.58	-31.730	-8,250.09	813.52	2,033.92	1,867.60	166.32	12.229 SF	
20,011.46	12,644.00	18,808.00	10,914.10	120.90	124.58	-31.730	-8,250.09	813.52	2,033.89	1,867.58	166.31	12.230	
20,100.00	12,644.00	18,808.00	10,914.10	122.15	124.58	-31.730	-8,250.09	813.52	2,035.81	1,869.69	166.12	12.255	
20,200.00	12,644.00	18,808.00	10,914.10	123.56	124.58	-31.730	-8,250.09	813.52	2,042.61	1,876.98	165.63	12.332	
20,300.00	12,644.00	18,808.00	10,914.10	124.97	124.58	-31.730	-8,250.09	813.52	2,054.25	1,889.40	164.85	12.461	
20,400.00	12,644.00	18,808.00	10,914.10	126.38	124.58	-31.730	-8,250.09	813.52	2,070.67	1,906.87	163.80	12.642	
20,500.00	12,644.00	18,808.00	10,914.10	127.80	124.58	-31.730	-8,250.09	813.52	2,091.74	1,929.24	162.50	12.873	
20,600.00	12,644.00	18,808.00	10,914.10	129.21	124.58	-31.730	-8,250.09	813.52	2,117.33	1,956.36	160.97	13.154	
20,700.00	12,644.00	18,808.00	10,914.10	130.63	124.58	-31.730	-8,250.09	813.52	2,147.28	1,988.02	159.25	13.483	
20,800.00	12,644.00	18,808.00	10,914.10	132.04	124.58	-31.730	-8,250.09	813.52	2,181.40	2,024.03	157.37	13.861	
20,900.00	12,644.00	18,808.00	10,914.10	133.46	124.58	-31.730	-8,250.09	813.52	2,219.51	2,064.14	155.36	14.286	
21,000.00	12,644.00	18,808.00	10,914.10	134.88	124.58	-31.730	-8,250.09	813.52	2,261.40	2,108.14	153.25	14.756	
21,100.00	12,644.00	18,808.00	10,914.10	136.29	124.58	-31.730	-8,250.09	813.52	2,306.87	2,155.79	151.07	15.270	
21,200.00	12,644.00	18,808.00	10,914.10	137.71	124.58	-31.730	-8,250.09	813.52	2,355.70	2,206.86	148.85	15.827	
21,300.00	12,644.00	18,808.00	10,914.10	139.13	124.58	-31.730	-8,250.09	813.52	2,407.71	2,261.11	146.60	16.424	
21,400.00	12,644.00	18,808.00	10,914.10	140.54	124.58	-31.730	-8,250.09	813.52	2,462.67	2,318.32	144.35	17.060	
21,500.00	12,644.00	18,808.00	10,914.10	141.96	124.58	-31.730	-8,250.09	813.52	2,520.41	2,378.29	142.12	17.734	
21,600.00	12,644.00	18,808.00	10,914.10	143.38	124.58	-31.730	-8,250.09	813.52	2,580.73	2,440.80	139.93	18.443	
21,700.00	12,644.00	18,808.00	10,914.10	144.80	124.58	-31.730	-8,250.09	813.52	2,643.46	2,505.68	137.78	19.187	
21,800.00	12,644.00	18,808.00	10,914.10	146.22	124.58	-31.730	-8,250.09	813.52	2,708.43	2,572.75	135.68	19.962	
21,900.00	12,644.00	18,808.00	10,914.10	147.64	124.58	-31.730	-8,250.09	813.52	2,775.48	2,641.83	133.65	20.767	
22,000.00	12,644.00	18,808.00	10,914.10	149.06	124.58	-31.730	-8,250.09	813.52	2,844.47	2,712.78	131.69	21.600	
22,100.00	12,644.00	18,808.00	10,914.10	150.48	124.58	-31.730	-8,250.09	813.52	2,915.26	2,785.46	129.80	22.460	
22,199.47	12,644.00	18,808.00	10,914.10	151.89	124.58	-31.730	-8,250.09	813.52	2,987.33	2,859.34	127.99	23.340	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 404H - OH / 68222 - Surveys (H&P 474)													Offset Site Error: 0.00 usft
Survey Program: 176-MWD+HDGM													Offset Well Error: 1.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	3.00	1.00	1.00	90.599	-14.45	1,382.24	1,382.32				
100.00	100.00	98.17	101.17	1.08	1.01	90.609	-14.70	1,382.20	1,382.28	1,380.18	2.10	659.708	
200.00	200.00	198.57	201.57	1.60	1.06	90.640	-15.44	1,382.07	1,382.16	1,379.50	2.66	520.022	
269.48	269.48	266.49	269.48	1.88	1.16	90.668	-16.12	1,382.02	1,382.12	1,379.08	3.04	454.275 CC	
300.00	300.00	296.32	299.31	2.01	1.22	90.681	-16.43	1,382.03	1,382.13	1,378.90	3.23	427.859	
400.00	400.00	391.59	394.57	2.35	1.44	90.727	-17.54	1,382.20	1,382.32	1,378.52	3.80	364.096	
500.00	500.00	487.49	490.47	2.65	1.71	90.769	-18.57	1,382.72	1,382.88	1,378.52	4.36	317.091	
600.00	600.00	589.91	592.88	2.93	2.01	90.805	-19.43	1,383.37	1,383.53	1,378.59	4.94	279.994	
700.00	700.00	689.73	692.70	3.18	2.33	90.843	-20.36	1,383.86	1,384.03	1,378.52	5.51	251.206	
800.00	800.00	784.00	786.96	3.41	2.64	90.868	-20.99	1,384.55	1,384.78	1,378.72	6.05	228.813	
900.00	900.00	887.88	890.83	3.64	2.99	90.907	-21.94	1,385.40	1,385.60	1,378.98	6.62	209.277	
1,000.00	1,000.00	994.25	997.20	3.85	3.35	90.949	-22.97	1,385.80	1,385.99	1,378.80	7.19	192.672	
1,100.00	1,100.00	1,094.01	1,096.95	4.05	3.69	90.987	-23.89	1,385.96	1,386.17	1,378.43	7.74	179.142	
1,200.00	1,200.00	1,189.87	1,192.81	4.24	4.02	91.030	-24.92	1,386.29	1,386.53	1,378.27	8.26	167.790 ES	
1,300.00	1,300.00	1,283.29	1,286.22	4.43	4.35	91.086	-26.29	1,386.93	1,387.25	1,378.48	8.78	158.079	
1,400.00	1,400.00	1,379.24	1,382.14	4.61	4.69	91.164	-28.19	1,388.08	1,388.48	1,379.19	9.29	149.423	
1,500.00	1,500.00	1,480.38	1,483.25	4.78	5.04	91.253	-30.38	1,389.29	1,389.72	1,379.90	9.82	141.470	
1,600.00	1,599.98	1,582.62	1,585.45	4.98	5.40	-114.669	-32.63	1,390.41	1,391.60	1,381.27	10.32	134.792	
1,700.00	1,699.84	1,686.85	1,689.65	5.60	5.77	-114.725	-34.91	1,391.30	1,394.69	1,383.77	10.91	127.793	
1,718.18	1,717.96	1,705.87	1,708.67	5.62	5.84	-114.747	-35.32	1,391.42	1,395.37	1,384.38	10.99	127.025	
1,800.00	1,799.55	1,788.93	1,791.72	5.72	6.14	-114.913	-37.03	1,391.89	1,398.49	1,387.13	11.36	123.159	
1,900.00	1,899.26	1,886.25	1,889.01	5.89	6.48	-115.110	-38.94	1,392.47	1,402.33	1,390.50	11.84	118.471	
2,000.00	1,998.97	1,997.51	2,000.25	6.09	6.88	-115.330	-41.23	1,392.88	1,405.99	1,393.61	12.38	113.582	
2,100.00	2,098.68	2,098.91	2,101.62	6.30	7.24	-115.518	-43.58	1,392.70	1,409.10	1,396.21	12.89	109.327	
2,200.00	2,198.39	2,195.64	2,198.32	6.53	7.58	-115.693	-45.91	1,392.65	1,412.35	1,398.97	13.39	105.500	
2,300.00	2,298.10	2,308.76	2,311.40	6.77	7.98	-115.885	-48.92	1,392.11	1,415.20	1,401.26	13.95	101.475	
2,400.00	2,397.81	2,414.18	2,416.77	7.02	8.35	-116.049	-52.10	1,390.76	1,417.25	1,402.77	14.48	97.866	
2,500.00	2,497.52	2,509.14	2,511.67	7.28	8.69	-116.197	-54.91	1,389.65	1,419.43	1,404.45	14.98	94.731	
2,600.00	2,597.23	2,601.72	2,604.21	7.55	9.02	-116.344	-57.61	1,388.94	1,422.02	1,406.54	15.48	91.848	
2,700.00	2,696.94	2,691.36	2,693.82	7.83	9.34	-116.488	-60.13	1,388.83	1,425.27	1,409.30	15.97	89.222	
2,800.00	2,796.65	2,787.88	2,790.30	8.12	9.69	-116.652	-62.63	1,389.35	1,429.19	1,412.69	16.49	86.644	
2,900.00	2,896.36	2,892.87	2,895.26	8.42	10.07	-116.827	-65.39	1,389.55	1,432.76	1,415.71	17.05	84.033	
3,000.00	2,996.07	2,998.49	3,000.84	8.72	10.44	-116.994	-68.38	1,389.60	1,436.21	1,418.60	17.61	81.557	
3,100.00	3,095.78	3,107.44	3,109.72	9.03	10.84	-117.131	-72.35	1,388.92	1,438.99	1,420.81	18.18	79.136	
3,200.00	3,195.49	3,200.26	3,202.46	9.34	11.17	-117.235	-76.02	1,388.22	1,441.64	1,422.94	18.70	77.085	
3,300.00	3,295.20	3,289.23	3,291.36	9.66	11.49	-117.339	-79.42	1,388.21	1,445.03	1,425.82	19.21	75.230	
3,400.00	3,394.91	3,396.91	3,398.96	9.98	11.88	-117.465	-83.52	1,388.53	1,448.75	1,428.96	19.79	73.219	
3,500.00	3,494.62	3,530.84	3,532.77	10.30	12.36	-117.614	-88.85	1,386.69	1,450.78	1,430.33	20.46	70.922	
3,600.00	3,594.33	3,640.86	3,642.68	10.63	12.75	-117.767	-92.50	1,383.38	1,451.21	1,430.17	21.04	68.979	
3,700.00	3,694.04	3,738.67	3,740.37	10.96	13.09	-117.888	-96.12	1,380.26	1,451.45	1,429.87	21.58	67.253	
3,800.00	3,793.75	3,834.63	3,836.21	11.29	13.44	-117.993	-100.01	1,377.48	1,451.98	1,429.86	22.12	65.634	
3,900.00	3,893.47	3,924.27	3,925.74	11.63	13.76	-118.081	-103.87	1,375.17	1,452.85	1,430.21	22.64	64.161	
4,000.00	3,993.18	4,007.26	4,008.65	11.97	14.06	-118.162	-107.44	1,373.99	1,454.84	1,431.70	23.14	62.861	
4,100.00	4,092.89	4,096.62	4,097.92	12.31	14.38	-118.248	-111.28	1,373.58	1,457.81	1,434.14	23.67	61.595	
4,200.00	4,192.60	4,194.52	4,195.73	12.65	14.74	-118.347	-115.33	1,373.46	1,461.13	1,436.91	24.23	60.314	
4,300.00	4,292.31	4,291.47	4,292.61	13.00	15.09	-118.456	-119.03	1,373.51	1,464.64	1,439.86	24.78	59.101	
4,400.00	4,392.02	4,387.40	4,388.48	13.34	15.43	-118.565	-122.65	1,373.75	1,468.36	1,443.03	25.34	57.956	
4,500.00	4,491.73	4,479.65	4,480.66	13.69	15.77	-118.665	-126.22	1,374.36	1,472.50	1,446.62	25.88	56.905	
4,600.00	4,591.44	4,575.38	4,576.32	14.04	16.11	-118.780	-129.61	1,375.52	1,477.19	1,450.75	26.43	55.887	
4,700.00	4,691.15	4,688.72	4,689.57	14.39	16.52	-118.906	-133.89	1,376.38	1,481.43	1,454.37	27.06	54.750	
4,800.00	4,790.86	4,786.66	4,787.43	14.74	16.88	-119.001	-137.96	1,376.53	1,485.07	1,457.44	27.62	53.759	
4,900.00	4,890.57	4,871.63	4,872.33	15.10	17.19	-119.089	-141.28	1,377.32	1,489.48	1,461.34	28.14	52.928	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 404H - OH / 68222 - Surveys (H&P 474)												Offset Site Error: 0.00 usft
Survey Program: 176-MWD+HJGM												Offset Well Error: 1.00 usft
Reference												
Offset												
Semi Major Axis												
Highside												
Offset Wellbore Centre												
Distance												
Between												
Ellipses												
Minimum												
Separation												
Factor												
Warning												
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
5,000.00	4,990.28	4,958.35	4,958.94	15.45	17.50	-119.160	-145.12	1,379.05	1,494.92	1,466.26	28.66	52.155
5,100.00	5,089.99	5,082.70	5,083.10	15.81	17.95	-119.228	-151.45	1,381.72	1,500.64	1,471.30	29.34	51.154
5,200.00	5,189.70	5,223.25	5,223.51	16.16	18.46	-119.355	-157.55	1,380.41	1,503.06	1,473.00	30.07	49.992
5,300.00	5,289.41	5,321.88	5,322.05	16.52	18.81	-119.463	-161.38	1,378.45	1,504.58	1,473.94	30.64	49.103
5,400.00	5,389.12	5,418.71	5,418.79	16.88	19.16	-119.571	-165.07	1,376.68	1,506.27	1,475.06	31.21	48.260
5,500.00	5,488.83	5,517.03	5,517.03	17.24	19.52	-119.680	-168.84	1,375.03	1,508.12	1,476.33	31.79	47.441
5,600.00	5,588.54	5,615.93	5,615.84	17.59	19.87	-119.787	-172.64	1,373.46	1,510.07	1,477.70	32.37	46.650
5,700.00	5,688.25	5,714.91	5,714.74	17.95	20.23	-119.896	-176.42	1,371.94	1,512.06	1,479.11	32.95	45.886
5,800.00	5,787.96	5,812.96	5,812.71	18.32	20.58	-120.010	-179.99	1,370.53	1,514.18	1,480.65	33.53	45.154
5,900.00	5,887.67	5,907.22	5,906.91	18.68	20.92	-120.130	-183.14	1,369.30	1,516.46	1,482.36	34.10	44.467
6,000.00	5,987.38	5,995.04	5,994.68	19.04	21.24	-120.242	-185.98	1,368.74	1,519.42	1,484.77	34.65	43.852
6,100.00	6,087.09	6,086.27	6,085.85	19.40	21.57	-120.352	-189.08	1,368.88	1,523.15	1,487.94	35.21	43.262
6,200.00	6,186.80	6,185.56	6,185.10	19.76	21.93	-120.470	-192.42	1,369.20	1,527.07	1,491.27	35.80	42.655
6,300.00	6,286.51	6,281.69	6,281.17	20.13	22.28	-120.588	-195.56	1,369.68	1,531.18	1,494.80	36.38	42.087
6,400.00	6,386.22	6,378.66	6,378.08	20.49	22.63	-120.707	-198.69	1,370.38	1,535.51	1,498.54	36.97	41.538
6,500.00	6,485.93	6,476.47	6,475.84	20.86	22.98	-120.826	-201.84	1,371.24	1,540.01	1,502.46	37.56	41.006
6,600.00	6,585.64	6,575.08	6,574.40	21.22	23.34	-120.952	-204.82	1,372.18	1,544.62	1,506.47	38.15	40.488
6,700.00	6,685.35	6,673.31	6,672.59	21.59	23.69	-121.085	-207.55	1,373.18	1,549.32	1,510.57	38.75	39.987
6,800.00	6,785.06	6,773.06	6,772.30	21.95	24.05	-121.232	-209.99	1,374.27	1,554.12	1,514.77	39.35	39.496
6,900.00	6,884.77	6,873.14	6,872.35	22.32	24.41	-121.385	-212.25	1,375.27	1,558.87	1,518.91	39.96	39.015
7,000.00	6,984.48	6,980.70	6,979.89	22.68	24.79	-121.560	-214.40	1,376.18	1,563.50	1,522.90	40.60	38.512
7,100.00	7,084.19	7,086.33	7,085.51	23.05	25.17	-121.757	-215.85	1,376.38	1,567.56	1,526.32	41.24	38.013
7,200.00	7,183.90	7,184.79	7,183.96	23.42	25.52	-121.951	-216.91	1,376.43	1,571.51	1,529.66	41.85	37.551
7,300.00	7,283.61	7,279.11	7,278.28	23.78	25.86	-122.136	-217.90	1,376.68	1,575.72	1,533.27	42.45	37.123
7,400.00	7,383.32	7,375.80	7,374.96	24.15	26.21	-122.321	-218.96	1,377.23	1,580.23	1,537.17	43.05	36.705
7,500.00	7,483.03	7,473.26	7,472.40	24.52	26.55	-122.505	-220.08	1,377.95	1,584.91	1,541.25	43.66	36.300
7,600.00	7,582.74	7,570.75	7,569.88	24.89	26.90	-122.686	-221.24	1,378.81	1,589.76	1,545.49	44.27	35.908
7,700.00	7,682.45	7,664.49	7,663.61	25.25	27.23	-122.852	-222.49	1,379.90	1,594.88	1,550.01	44.87	35.547
7,800.00	7,782.16	7,772.43	7,771.54	25.62	27.61	-123.054	-223.65	1,381.05	1,599.95	1,554.43	45.52	35.146
7,900.00	7,881.87	7,874.83	7,873.93	25.99	27.95	-123.297	-223.32	1,381.57	1,604.67	1,558.52	46.15	34.770
8,000.00	7,981.58	7,970.83	7,969.94	26.36	28.27	-123.542	-222.47	1,382.04	1,609.48	1,562.73	46.75	34.429
8,100.00	8,081.29	8,068.65	8,067.74	26.73	28.59	-123.786	-221.71	1,382.76	1,614.53	1,567.17	47.35	34.094
8,200.00	8,181.00	8,173.03	8,172.12	27.10	28.93	-124.035	-221.16	1,383.41	1,619.48	1,571.48	47.99	33.743
8,300.00	8,280.71	8,273.72	8,272.81	27.47	29.27	-124.267	-220.89	1,383.83	1,624.20	1,575.59	48.62	33.407
8,400.00	8,380.42	8,370.94	8,370.03	27.84	29.59	-124.494	-220.48	1,384.36	1,629.11	1,579.88	49.23	33.091
8,500.00	8,480.13	8,470.02	8,469.10	28.21	29.92	-124.731	-219.84	1,384.90	1,634.08	1,584.23	49.85	32.778
8,600.00	8,579.84	8,568.60	8,567.68	28.58	30.24	-124.968	-219.14	1,385.51	1,639.15	1,588.68	50.48	32.474
8,700.00	8,679.55	8,666.71	8,665.79	28.95	30.57	-125.194	-218.66	1,386.20	1,644.31	1,593.21	51.10	32.178
8,800.00	8,779.26	8,763.27	8,762.34	29.32	30.90	-125.410	-218.31	1,387.04	1,649.64	1,597.92	51.72	31.895
8,900.00	8,878.97	8,860.54	8,859.61	29.69	31.23	-125.623	-218.03	1,388.09	1,655.18	1,602.83	52.35	31.619
9,000.00	8,978.68	8,959.30	8,958.36	30.06	31.56	-125.837	-217.75	1,389.25	1,660.84	1,607.86	52.98	31.347
9,100.00	9,078.39	9,057.94	9,057.00	30.43	31.90	-126.050	-217.42	1,390.44	1,666.56	1,612.94	53.62	31.082
9,200.00	9,178.10	9,167.62	9,166.67	30.80	32.27	-126.288	-217.04	1,391.56	1,672.13	1,617.82	54.31	30.791
9,300.00	9,277.81	9,302.17	9,301.20	31.17	32.73	-126.592	-216.56	1,390.57	1,675.90	1,620.80	55.10	30.417
9,400.00	9,377.52	9,389.33	9,388.36	31.54	33.02	-126.785	-216.42	1,389.66	1,679.45	1,623.76	55.69	30.158
9,500.00	9,477.23	9,480.35	9,479.38	31.91	33.33	-126.986	-216.12	1,389.27	1,683.67	1,627.37	56.30	29.907
9,600.00	9,576.94	9,578.31	9,577.34	32.29	33.67	-127.178	-216.40	1,389.31	1,688.24	1,631.31	56.94	29.650
9,700.00	9,676.65	9,681.83	9,680.85	32.66	34.04	-127.352	-217.57	1,389.33	1,692.66	1,635.05	57.61	29.381
9,800.00	9,776.36	9,778.69	9,777.71	33.03	34.38	-127.531	-218.16	1,389.29	1,697.13	1,638.87	58.26	29.131
9,900.00	9,876.07	9,874.76	9,873.78	33.40	34.72	-127.720	-218.33	1,389.34	1,701.79	1,642.89	58.91	28.889
10,000.00	9,975.78	9,969.51	9,968.53	33.77	35.06	-127.899	-218.67	1,389.68	1,706.75	1,647.20	59.55	28.662
10,100.00	10,075.49	10,074.36	10,073.37	34.14	35.43	-128.094	-219.03	1,390.23	1,711.89	1,651.65	60.23	28.421

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 404H - OH / 68222 - Surveys (H&P 474)													Offset Site Error: 0.00 usft
Survey Program: 176-MWD+HDCM													Offset Well Error: 1.00 usft
Reference	Offset	Rule Assigned:											Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,200.00	10,175.20	10,222.18	10,221.17	34.52	35.95	-128.344	-220.68	1,388.99	1,715.65	1,654.56	61.09	28.084	
10,300.00	10,274.91	10,371.25	10,370.07	34.89	36.48	-128.538	-225.10	1,383.41	1,716.00	1,654.09	61.91	27.720	
10,400.00	10,374.62	10,461.03	10,459.68	35.26	36.79	-128.637	-228.51	1,379.03	1,715.19	1,652.67	62.52	27.436	
10,414.75	10,389.33	10,472.20	10,470.83	35.32	36.83	-128.651	-228.87	1,378.55	1,715.17	1,652.57	62.60	27.399	
10,500.00	10,474.33	10,546.82	10,545.37	35.63	37.10	-128.750	-230.98	1,375.74	1,715.54	1,652.43	63.12	27.180	
10,600.00	10,574.04	10,631.88	10,630.35	36.01	37.39	-128.863	-233.34	1,372.87	1,716.45	1,652.73	63.71	26.940	
10,700.00	10,673.75	10,720.76	10,719.20	36.38	37.70	-129.039	-233.87	1,370.62	1,718.59	1,654.25	64.34	26.712	
10,800.00	10,773.46	10,861.74	10,860.07	36.75	38.18	-129.365	-233.63	1,365.11	1,719.67	1,654.50	65.16	26.389	
10,847.84	10,821.16	10,906.06	10,904.32	36.93	38.33	-129.467	-233.71	1,362.80	1,719.54	1,654.06	65.48	26.262	
10,900.00	10,873.18	10,946.48	10,944.71	37.12	38.47	-129.555	-233.90	1,360.98	1,719.72	1,653.93	65.79	26.141	
11,000.00	10,972.89	11,034.27	11,032.43	37.50	38.77	-129.730	-234.54	1,357.79	1,720.86	1,654.44	66.41	25.912	
11,100.00	11,072.60	11,129.28	11,127.39	37.87	39.10	-129.919	-235.16	1,354.72	1,722.44	1,655.37	67.07	25.682	
11,200.00	11,172.31	11,200.75	11,198.84	38.24	39.34	-130.067	-235.36	1,352.78	1,724.74	1,657.11	67.63	25.504	
11,300.00	11,272.02	11,263.25	11,261.33	38.62	39.56	-130.195	-235.20	1,352.53	1,729.28	1,661.14	68.13	25.380	
11,381.30	11,353.08	11,343.24	11,341.32	38.92	39.83	-130.355	-234.88	1,352.99	1,733.81	1,665.14	68.67	25.248	
11,400.00	11,371.73	11,365.64	11,363.71	38.98	39.90	-130.412	-234.83	1,353.12	1,734.81	1,666.00	68.81	25.212	
11,500.00	11,471.59	11,489.25	11,487.32	39.34	40.34	-130.594	-235.76	1,352.92	1,737.82	1,668.27	69.55	24.987	
11,599.47	11,571.04	11,599.28	11,597.33	39.49	40.72	75.376	-237.15	1,351.91	1,737.75	1,667.69	70.06	24.805	
11,600.00	11,571.57	11,599.86	11,597.92	39.49	40.73	75.376	-237.15	1,351.90	1,737.74	1,667.68	70.06	24.804	
11,700.00	11,671.57	11,693.45	11,691.49	39.52	41.05	75.359	-237.00	1,350.42	1,736.26	1,665.88	70.39	24.668	
11,800.00	11,771.57	11,796.11	11,794.14	39.52	41.39	75.329	-236.41	1,349.16	1,735.22	1,664.47	70.75	24.525	
11,900.00	11,871.57	11,888.42	11,886.45	39.53	41.71	75.321	-236.45	1,348.00	1,734.01	1,662.94	71.07	24.398	
12,000.00	11,971.57	11,976.57	11,974.60	39.54	42.01	75.314	-236.36	1,347.52	1,733.51	1,662.14	71.37	24.289	
12,099.47	12,071.04	12,076.84	12,074.86	39.54	42.35	75.274	-235.20	1,347.14	1,733.44	1,661.71	71.73	24.167	
12,100.00	12,071.57	12,077.41	12,075.43	39.55	42.35	-104.173	-235.19	1,347.14	1,733.44	1,661.71	71.73	24.166	
12,104.19	12,075.76	12,081.24	12,079.25	39.55	42.36	-104.177	-235.12	1,347.11	1,733.43	1,661.69	71.75	24.161	
12,150.00	12,121.50	12,124.79	12,122.79	39.65	42.51	-104.230	-234.18	1,346.80	1,733.91	1,661.96	71.96	24.097	
12,200.00	12,171.05	12,173.04	12,171.03	39.91	42.67	-104.314	-233.07	1,346.50	1,735.54	1,663.24	72.30	24.006	
12,250.00	12,219.84	12,223.36	12,221.34	40.20	42.84	-104.372	-233.86	1,346.70	1,738.28	1,665.58	72.70	23.910	
12,300.00	12,267.50	12,305.10	12,301.69	40.50	43.14	-104.398	-246.92	1,349.43	1,741.64	1,668.47	73.18	23.800	
12,350.00	12,313.66	12,350.01	12,343.31	40.80	43.31	-103.997	-263.32	1,353.09	1,745.64	1,672.13	73.52	23.745	
12,400.00	12,357.98	12,376.00	12,366.65	41.09	43.41	-103.464	-274.42	1,355.84	1,751.10	1,677.21	73.89	23.698	
12,450.00	12,400.11	12,411.40	12,407.43	41.38	43.54	-102.808	-291.25	1,360.49	1,758.07	1,683.76	74.30	23.661	
12,500.00	12,439.74	12,424.00	12,408.05	41.66	43.59	-101.968	-297.75	1,362.42	1,766.72	1,691.95	74.77	23.627	
12,550.00	12,476.56	12,453.32	12,432.03	41.92	43.69	-101.031	-313.77	1,367.66	1,776.92	1,701.67	75.26	23.611	
12,600.00	12,510.29	12,472.00	12,446.75	42.16	43.76	-99.916	-324.58	1,371.59	1,788.85	1,713.06	75.79	23.602	
12,650.00	12,540.68	12,492.77	12,462.68	42.39	43.84	-98.680	-337.00	1,376.41	1,802.28	1,725.93	76.35	23.605	
12,700.00	12,567.50	12,519.00	12,482.29	42.58	43.94	-97.382	-353.10	1,383.08	1,817.11	1,740.18	76.93	23.621	
12,750.00	12,590.54	12,755.00	12,630.35	42.76	44.85	-97.453	-526.67	1,439.17	1,829.97	1,753.15	76.81	23.824	
12,800.00	12,609.63	12,755.00	12,630.35	42.91	44.85	-96.234	-526.67	1,439.17	1,841.89	1,764.32	77.57	23.745	
12,850.00	12,624.61	12,785.37	12,644.91	43.03	44.97	-95.040	-552.31	1,446.39	1,854.77	1,776.57	78.20	23.718	
12,900.00	12,635.39	12,803.00	12,652.33	43.12	45.04	-93.671	-567.55	1,451.22	1,869.07	1,790.18	78.89	23.692	
12,950.00	12,641.87	12,803.00	12,652.33	43.19	45.04	-92.039	-567.55	1,451.22	1,884.60	1,804.95	79.65	23.660	
12,999.47	12,644.00	12,803.00	12,652.33	43.23	45.04	-90.268	-567.55	1,451.22	1,901.28	1,820.89	80.39	23.651	
13,000.00	12,644.00	12,803.00	12,652.33	43.24	45.04	-90.268	-567.55	1,451.22	1,901.46	1,821.07	80.40	23.651	
13,100.00	12,644.00	13,492.00	12,692.95	43.31	48.22	-91.453	-1,222.63	1,606.45	1,934.06	1,855.24	78.82	24.539	
13,200.00	12,644.00	13,536.47	12,690.84	43.39	48.49	-91.387	-1,266.85	1,610.54	1,941.58	1,861.05	80.52	24.113	
13,300.00	12,644.00	13,634.70	12,687.67	43.50	49.09	-91.288	-1,364.55	1,620.19	1,950.36	1,868.28	82.07	23.764	
13,400.00	12,644.00	13,822.77	12,687.22	43.63	50.30	-91.267	-1,552.16	1,632.85	1,955.69	1,872.16	83.53	23.414	
13,500.00	12,644.00	13,959.21	12,686.83	43.78	51.25	-91.253	-1,688.46	1,639.13	1,959.52	1,874.31	85.22	22.995	
13,600.00	12,644.00	14,024.88	12,687.03	43.96	51.72	-91.257	-1,754.08	1,641.71	1,962.50	1,875.46	87.04	22.546	
13,700.00	12,644.00	14,246.12	12,685.38	44.18	53.39	-91.209	-1,975.21	1,644.60	1,962.25	1,873.36	88.89	22.075	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 404H - OH / 68222 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 176-MWD+H2GM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Offset												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
13,800.00	12,644.00	14,312.67	12,684.30	44.44	53.92	-91.178	-2,041.74	1,644.32	1,960.83	1,870.00	90.82	21.590	
13,900.00	12,644.00	14,414.62	12,682.96	44.74	54.75	-91.139	-2,143.69	1,645.04	1,960.54	1,867.74	92.80	21.126	
14,000.00	12,644.00	14,496.96	12,681.97	45.11	55.44	-91.110	-2,226.01	1,645.50	1,960.15	1,865.35	94.80	20.676	
14,037.84	12,644.00	14,589.81	12,682.22	45.27	56.23	-91.118	-2,318.84	1,644.94	1,959.36	1,863.69	95.67	20.481	
14,100.00	12,644.00	14,682.21	12,682.08	45.54	57.04	-91.116	-2,411.18	1,641.98	1,956.51	1,859.51	97.01	20.169	
14,200.00	12,644.00	14,810.00	12,682.91	46.05	58.16	-91.145	-2,538.80	1,635.92	1,950.58	1,851.41	99.17	19.669	
14,300.00	12,644.00	14,905.00	12,684.85	46.65	59.02	-91.205	-2,633.65	1,631.64	1,945.15	1,843.82	101.33	19.197	
14,400.00	12,644.00	14,905.00	12,684.85	47.33	59.02	-91.205	-2,633.65	1,631.64	1,942.41	1,839.18	103.24	18.815	
14,403.18	12,644.00	14,905.00	12,684.85	47.35	59.02	-91.205	-2,633.65	1,631.64	1,942.41	1,839.12	103.30	18.804	
14,500.00	12,644.00	14,942.82	12,686.07	48.09	59.39	-91.241	-2,671.44	1,632.36	1,943.69	1,838.49	105.20	18.475	
14,600.00	12,644.00	15,282.00	12,694.91	48.94	62.65	-91.512	-3,009.47	1,622.20	1,937.86	1,829.63	108.23	17.905	
14,700.00	12,644.00	15,323.28	12,696.22	49.86	63.06	-91.553	-3,050.64	1,619.50	1,930.26	1,819.89	110.37	17.489	
14,800.00	12,644.00	15,376.00	12,697.63	50.85	63.59	-91.597	-3,103.30	1,617.51	1,925.43	1,812.93	112.51	17.114	
14,900.00	12,644.00	15,407.82	12,698.51	51.89	63.92	-91.624	-3,135.11	1,617.26	1,923.53	1,809.00	114.53	16.795	
14,906.60	12,644.00	15,410.23	12,698.58	51.96	63.94	-91.626	-3,137.51	1,617.28	1,923.53	1,808.86	114.66	16.795	
15,000.00	12,644.00	15,471.00	12,700.86	52.99	64.58	-91.692	-3,198.20	1,619.46	1,925.46	1,808.79	116.67	16.504	
15,100.00	12,644.00	15,521.74	12,702.06	54.12	65.12	-91.726	-3,248.83	1,622.38	1,929.39	1,810.68	118.71	16.253	
15,200.00	12,644.00	15,609.10	12,700.31	55.29	66.05	-91.671	-3,336.06	1,626.66	1,933.34	1,812.36	120.98	15.981	
15,300.00	12,644.00	15,669.32	12,699.13	56.49	66.70	-91.633	-3,396.13	1,630.91	1,939.33	1,816.29	123.04	15.762	
15,400.00	12,644.00	15,753.67	12,697.43	57.72	67.63	-91.578	-3,480.16	1,637.95	1,946.66	1,821.37	125.29	15.538	
15,500.00	12,644.00	15,858.94	12,697.19	58.96	68.80	-91.564	-3,585.03	1,647.01	1,954.29	1,826.55	127.75	15.298	
15,600.00	12,644.00	15,977.74	12,697.99	60.22	70.13	-91.581	-3,703.47	1,656.20	1,961.06	1,830.70	130.35	15.044	
15,700.00	12,644.00	16,209.16	12,702.92	61.50	72.75	-91.719	-3,934.55	1,665.45	1,964.12	1,830.22	133.89	14.669	
15,800.00	12,644.00	16,319.00	12,701.54	62.79	74.00	-91.680	-4,044.37	1,665.24	1,962.85	1,826.41	136.43	14.387	
15,845.41	12,644.00	16,350.26	12,700.92	63.38	74.36	-91.662	-4,075.62	1,665.37	1,962.61	1,825.14	137.47	14.277	
15,900.00	12,644.00	16,381.18	12,700.75	64.09	74.71	-91.657	-4,106.54	1,665.86	1,962.93	1,824.28	138.65	14.158	
16,000.00	12,644.00	16,451.68	12,701.75	65.40	75.53	-91.685	-4,177.00	1,668.10	1,965.10	1,824.18	140.91	13.946	
16,100.00	12,644.00	16,627.75	12,702.85	66.72	77.59	-91.715	-4,352.98	1,671.53	1,966.27	1,822.22	144.04	13.650	
16,157.97	12,644.00	16,662.91	12,702.58	67.49	78.01	-91.708	-4,388.14	1,671.67	1,965.93	1,820.59	145.34	13.526	
16,200.00	12,644.00	16,698.00	12,702.60	68.04	78.42	-91.708	-4,423.22	1,672.21	1,966.15	1,819.80	146.35	13.435	
16,300.00	12,644.00	16,792.09	12,702.41	69.38	79.53	-91.702	-4,517.30	1,673.98	1,967.03	1,818.18	148.84	13.215	
16,400.00	12,644.00	16,887.00	12,702.18	70.72	80.66	-91.695	-4,612.20	1,675.13	1,967.30	1,815.95	151.35	12.998	
16,500.00	12,644.00	16,952.97	12,702.70	72.07	81.46	-91.709	-4,678.15	1,676.57	1,968.72	1,815.11	153.61	12.817	
16,600.00	12,644.00	17,038.71	12,703.63	73.42	82.50	-91.734	-4,763.80	1,680.37	1,972.15	1,816.11	156.04	12.639	
16,700.00	12,644.00	17,200.98	12,703.29	74.77	84.47	-91.721	-4,925.99	1,684.91	1,974.00	1,814.78	159.22	12.398	
16,800.00	12,644.00	17,433.33	12,700.59	76.13	87.29	-91.648	-5,158.22	1,680.76	1,971.69	1,808.98	162.70	12.118	
16,900.00	12,644.00	17,543.16	12,699.09	77.49	88.62	-91.611	-5,267.85	1,674.19	1,964.68	1,799.34	165.34	11.883	
17,000.00	12,644.00	17,582.65	12,698.33	78.86	89.10	-91.590	-5,307.29	1,672.34	1,959.12	1,791.51	167.61	11.688	
17,100.00	12,644.00	17,643.00	12,697.56	80.23	89.85	-91.568	-5,367.62	1,672.23	1,957.25	1,787.31	169.94	11.517	
17,137.42	12,644.00	17,643.00	12,697.56	80.75	89.85	-91.568	-5,367.62	1,672.23	1,956.89	1,786.29	170.60	11.471	
17,200.00	12,644.00	17,643.00	12,697.56	81.60	89.85	-91.568	-5,367.62	1,672.23	1,957.89	1,786.29	171.60	11.410	
17,300.00	12,644.00	17,704.03	12,696.69	82.98	90.62	-91.541	-5,428.59	1,674.91	1,961.59	1,787.83	173.76	11.289	
17,400.00	12,644.00	17,806.95	12,694.80	84.36	91.92	-91.482	-5,531.27	1,681.49	1,966.98	1,790.55	176.43	11.149	
17,500.00	12,644.00	17,973.29	12,694.36	85.74	94.03	-91.464	-5,697.41	1,689.02	1,970.67	1,790.80	179.87	10.956	
17,600.00	12,644.00	18,159.52	12,691.90	87.12	96.38	-91.395	-5,883.57	1,688.19	1,968.44	1,785.13	183.32	10.738	
17,700.00	12,644.00	18,285.90	12,691.93	88.51	97.98	-91.399	-6,009.90	1,684.98	1,964.90	1,778.74	186.16	10.555	
17,800.00	12,644.00	18,375.95	12,692.67	89.89	99.11	-91.423	-6,099.89	1,681.84	1,960.54	1,771.78	188.75	10.387	
17,900.00	12,644.00	18,464.61	12,692.95	91.28	100.24	-91.433	-6,188.53	1,680.00	1,957.47	1,766.14	191.34	10.230	
18,000.00	12,644.00	18,556.76	12,690.61	92.67	101.42	-91.367	-6,280.64	1,678.31	1,954.63	1,760.68	193.95	10.078	
18,100.00	12,644.00	18,660.77	12,688.35	94.07	102.75	-91.302	-6,384.60	1,676.72	1,952.08	1,755.43	196.66	9.926	
18,200.00	12,644.00	18,740.16	12,688.87	95.46	103.77	-91.319	-6,463.97	1,675.51	1,949.66	1,750.49	199.17	9.789	
18,300.00	12,644.00	18,825.21	12,688.81	96.85	104.87	-91.318	-6,549.03	1,675.37	1,948.49	1,746.77	201.72	9.659	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 404H - OH / 68222 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 176-MWD+HDMG												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				Reference	Offset		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
18,386.92	12,644.00	18,893.33	12,688.49	98.07	105.75	-91.309	-6,617.15	1,675.49	1,947.85	1,743.98	203.88	9.554	
18,400.00	12,644.00	18,900.45	12,688.45	98.25	105.85	-91.308	-6,624.26	1,675.57	1,947.87	1,743.71	204.17	9.541	
18,500.00	12,644.00	18,965.00	12,688.05	99.65	106.69	-91.295	-6,688.79	1,677.30	1,949.40	1,742.94	206.46	9.442	
18,600.00	12,644.00	19,037.82	12,687.63	101.05	107.65	-91.281	-6,761.54	1,680.41	1,952.57	1,743.76	208.81	9.351	
18,700.00	12,644.00	19,110.75	12,687.37	102.45	108.61	-91.272	-6,834.38	1,684.09	1,956.67	1,745.53	211.14	9.267	
18,800.00	12,644.00	19,293.48	12,685.48	103.85	111.02	-91.213	-7,016.92	1,691.12	1,959.60	1,744.65	214.95	9.117	
18,900.00	12,644.00	19,363.67	12,684.11	105.25	111.95	-91.172	-7,087.07	1,692.77	1,960.97	1,743.67	217.31	9.024	
19,000.00	12,644.00	19,438.00	12,682.71	106.65	112.93	-91.130	-7,161.32	1,695.99	1,964.17	1,744.49	219.68	8.941	
19,100.00	12,644.00	19,660.35	12,682.98	108.06	115.89	-91.135	-7,383.36	1,702.63	1,968.19	1,744.39	223.80	8.794	
19,200.00	12,644.00	19,723.00	12,683.91	109.46	116.72	-91.162	-7,445.99	1,703.16	1,967.48	1,741.29	226.18	8.699	
19,215.99	12,644.00	19,723.00	12,683.91	109.69	116.72	-91.162	-7,445.99	1,703.16	1,967.41	1,740.96	226.45	8.688	
19,300.00	12,644.00	19,794.52	12,685.76	110.87	117.67	-91.215	-7,517.46	1,704.95	1,968.59	1,739.97	228.62	8.611	
19,400.00	12,644.00	19,974.43	12,687.16	112.28	120.05	-91.258	-7,697.34	1,703.59	1,966.63	1,734.51	232.12	8.472	
19,500.00	12,644.00	20,071.47	12,684.97	113.68	121.34	-91.197	-7,794.33	1,701.10	1,963.07	1,728.24	234.83	8.360	
19,600.00	12,644.00	20,170.27	12,682.11	115.09	122.64	-91.115	-7,893.06	1,699.03	1,959.94	1,722.39	237.55	8.251	
19,700.00	12,644.00	20,272.44	12,681.10	116.50	124.00	-91.087	-7,995.20	1,696.67	1,956.64	1,716.34	240.30	8.142	
19,800.00	12,644.00	20,371.04	12,681.83	117.91	125.31	-91.110	-8,093.76	1,694.35	1,953.34	1,710.30	243.04	8.037	
19,900.00	12,644.00	20,442.36	12,683.01	119.32	126.26	-91.146	-8,165.06	1,693.11	1,950.72	1,705.18	245.54	7.945	
20,000.00	12,644.00	20,525.00	12,686.89	120.73	127.37	-91.261	-8,247.61	1,692.80	1,949.45	1,701.32	248.13	7.857	
20,017.47	12,644.00	20,525.00	12,686.89	120.98	127.37	-91.261	-8,247.61	1,692.80	1,949.37	1,700.95	248.42	7.847	
20,100.00	12,644.00	20,525.00	12,686.89	122.15	127.37	-91.261	-8,247.61	1,692.80	1,951.12	1,701.57	249.55	7.819 SF	
20,200.00	12,644.00	20,525.00	12,686.89	123.56	127.37	-91.261	-8,247.61	1,692.80	1,957.90	1,707.50	250.39	7.819	
20,300.00	12,644.00	20,525.00	12,686.89	124.97	127.37	-91.261	-8,247.61	1,692.80	1,969.74	1,719.06	250.67	7.858	
20,400.00	12,644.00	20,525.00	12,686.89	126.38	127.37	-91.261	-8,247.61	1,692.80	1,986.55	1,736.15	250.40	7.933	
20,500.00	12,644.00	20,525.00	12,686.89	127.80	127.37	-91.261	-8,247.61	1,692.80	2,008.20	1,758.59	249.61	8.045	
20,600.00	12,644.00	20,525.00	12,686.89	129.21	127.37	-91.261	-8,247.61	1,692.80	2,034.55	1,786.21	248.34	8.193	
20,700.00	12,644.00	20,525.00	12,686.89	130.63	127.37	-91.261	-8,247.61	1,692.80	2,065.40	1,818.77	246.63	8.374	
20,800.00	12,644.00	20,525.00	12,686.89	132.04	127.37	-91.261	-8,247.61	1,692.80	2,100.57	1,856.02	244.55	8.590	
20,900.00	12,644.00	20,525.00	12,686.89	133.46	127.37	-91.261	-8,247.61	1,692.80	2,139.84	1,897.70	242.14	8.837	
21,000.00	12,644.00	20,525.00	12,686.89	134.88	127.37	-91.261	-8,247.61	1,692.80	2,182.98	1,943.52	239.46	9.116	
21,100.00	12,644.00	20,525.00	12,686.89	136.29	127.37	-91.261	-8,247.61	1,692.80	2,229.78	1,993.22	236.55	9.426	
21,200.00	12,644.00	20,525.00	12,686.89	137.71	127.37	-91.261	-8,247.61	1,692.80	2,280.00	2,046.52	233.48	9.765	
21,300.00	12,644.00	20,525.00	12,686.89	139.13	127.37	-91.261	-8,247.61	1,692.80	2,333.44	2,103.15	230.29	10.133	
21,400.00	12,644.00	20,525.00	12,686.89	140.54	127.37	-91.261	-8,247.61	1,692.80	2,389.86	2,162.85	227.01	10.528	
21,500.00	12,644.00	20,525.00	12,686.89	141.96	127.37	-91.261	-8,247.61	1,692.80	2,449.07	2,225.39	223.68	10.949	
21,600.00	12,644.00	20,525.00	12,686.89	143.38	127.37	-91.261	-8,247.61	1,692.80	2,510.86	2,290.53	220.33	11.396	
21,700.00	12,644.00	20,525.00	12,686.89	144.80	127.37	-91.261	-8,247.61	1,692.80	2,575.06	2,358.07	217.00	11.867	
21,800.00	12,644.00	20,525.00	12,686.89	146.22	127.37	-91.261	-8,247.61	1,692.80	2,641.49	2,427.80	213.69	12.361	
21,900.00	12,644.00	20,525.00	12,686.89	147.64	127.37	-91.261	-8,247.61	1,692.80	2,709.97	2,499.54	210.43	12.878	
22,000.00	12,644.00	20,525.00	12,686.89	149.06	127.37	-91.261	-8,247.61	1,692.80	2,780.37	2,573.13	207.24	13.416	
22,100.00	12,644.00	20,525.00	12,686.89	150.48	127.37	-91.261	-8,247.61	1,692.80	2,852.54	2,648.42	204.12	13.975	
22,199.47	12,644.00	20,525.00	12,686.89	151.89	127.37	-91.261	-8,247.61	1,692.80	2,925.95	2,724.86	201.09	14.550	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 434H - OH / 68223 - Surveys (H&P 474)													Offset Site Error: 0.00 usft
Survey Program: 176-MWD+HDGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
0.00	0.00	0.00	3.00	1.00	1.00	90.646	-14.90	1,322.22	1,322.31				
100.00	100.00	97.83	100.83	1.08	1.01	90.651	-15.03	1,322.19	1,322.28	1,320.18	2.10	631.101	
200.00	200.00	197.47	200.47	1.60	1.06	90.667	-15.40	1,322.10	1,322.19	1,319.54	2.66	497.819	
210.27	210.27	207.27	210.27	1.64	1.07	90.669	-15.43	1,322.10	1,322.19	1,319.48	2.71	488.311	
300.00	300.00	292.94	295.94	2.01	1.21	90.676	-15.61	1,322.23	1,322.33	1,319.11	3.22	410.878	
400.00	400.00	402.55	405.55	2.35	1.46	90.684	-15.78	1,322.14	1,322.25	1,318.44	3.81	346.911	
500.00	500.00	500.36	503.36	2.65	1.73	90.703	-16.22	1,321.81	1,321.91	1,317.53	4.38	301.680	
600.00	600.00	597.08	600.07	2.93	2.02	90.735	-16.95	1,321.64	1,321.75	1,316.81	4.94	267.325	
601.13	601.13	598.13	601.13	2.93	2.02	90.735	-16.96	1,321.64	1,321.75	1,316.80	4.95	266.997	
700.00	700.00	693.35	696.34	3.18	2.32	90.758	-17.48	1,321.83	1,321.95	1,316.45	5.50	240.363	
800.00	800.00	797.52	800.51	3.41	2.66	90.792	-18.27	1,322.00	1,322.13	1,316.05	6.07	217.647	
900.00	900.00	900.96	903.95	3.64	3.01	90.814	-18.78	1,321.74	1,321.88	1,315.24	6.64	199.043	
1,000.00	1,000.00	999.26	1,002.25	3.85	3.34	90.835	-19.27	1,321.49	1,321.63	1,314.44	7.18	183.943	
1,080.88	1,080.88	1,077.90	1,080.88	4.01	3.61	90.850	-19.60	1,321.41	1,321.56	1,313.94	7.62	173.497	
1,100.00	1,100.00	1,096.33	1,099.31	4.05	3.67	90.854	-19.69	1,321.41	1,321.56	1,313.84	7.72	171.207	
1,200.00	1,200.00	1,191.21	1,194.19	4.24	4.00	90.884	-20.40	1,321.61	1,321.78	1,313.54	8.24	160.418	
1,300.00	1,300.00	1,282.16	1,285.13	4.43	4.31	90.924	-21.33	1,322.26	1,322.51	1,313.77	8.74	151.354	
1,400.00	1,400.00	1,377.67	1,380.64	4.61	4.63	90.932	-21.52	1,323.66	1,323.97	1,314.73	9.24	143.289	
1,500.00	1,500.00	1,483.06	1,486.01	4.78	4.98	90.894	-20.69	1,324.96	1,325.20	1,315.43	9.77	135.706	
1,600.00	1,599.98	1,581.95	1,584.89	4.98	5.31	-115.150	-20.02	1,325.99	1,326.96	1,316.73	10.24	129.643	
1,700.00	1,699.84	1,694.11	1,697.05	5.60	5.69	-115.366	-19.12	1,327.00	1,330.12	1,319.29	10.84	122.739	
1,718.18	1,717.96	1,716.47	1,719.41	5.62	5.77	-115.431	-18.83	1,327.01	1,330.70	1,319.79	10.92	121.901	
1,800.00	1,799.55	1,805.66	1,808.57	5.72	6.06	-115.769	-17.10	1,326.68	1,333.08	1,321.79	11.29	118.069	
1,900.00	1,899.26	1,901.86	1,904.74	5.89	6.39	-116.155	-14.69	1,326.14	1,335.86	1,324.11	11.75	113.664	
2,000.00	1,998.97	1,998.87	2,001.72	6.09	6.71	-116.537	-12.38	1,325.83	1,338.94	1,326.71	12.23	109.475	
2,100.00	2,098.68	2,101.18	2,104.02	6.30	7.06	-116.820	-10.38	1,325.51	1,342.09	1,329.35	12.73	105.402	
2,200.00	2,198.39	2,221.88	2,224.70	6.53	7.48	-117.339	-8.74	1,324.36	1,344.69	1,331.39	13.30	101.076	
2,300.00	2,298.10	2,392.83	2,395.41	6.77	8.06	-117.982	-5.39	1,316.45	1,343.66	1,329.63	14.04	95.732	
2,400.00	2,397.81	2,507.93	2,510.09	7.02	8.46	-118.436	-2.84	1,306.97	1,339.03	1,324.43	14.60	91.740	
2,500.00	2,497.52	2,596.85	2,598.70	7.28	8.77	-118.773	-1.24	1,299.77	1,334.64	1,319.56	15.09	88.474	
2,600.00	2,597.23	2,705.35	2,706.88	7.55	9.16	-119.170	0.36	1,291.68	1,330.98	1,315.35	15.64	85.113	
2,700.00	2,696.94	2,818.00	2,819.01	7.83	9.56	-119.625	2.83	1,281.15	1,325.41	1,309.21	16.21	81.770	
2,800.00	2,796.65	2,944.60	2,944.94	8.12	10.01	-120.154	5.85	1,268.43	1,319.39	1,302.57	16.82	78.423	
2,900.00	2,896.36	3,038.00	3,037.73	8.42	10.35	-120.565	8.38	1,258.12	1,312.38	1,295.02	17.35	75.623	
3,000.00	2,996.07	3,143.44	3,142.51	8.72	10.73	-120.999	10.45	1,246.51	1,305.41	1,287.49	17.92	72.839	
3,100.00	3,095.78	3,245.82	3,244.19	9.03	11.10	-121.367	11.08	1,234.63	1,297.80	1,279.32	18.48	70.209	
3,200.00	3,195.49	3,322.00	3,319.92	9.34	11.38	-121.628	11.25	1,226.39	1,291.05	1,272.07	18.98	68.024	
3,300.00	3,295.20	3,416.00	3,413.51	9.66	11.72	-121.951	11.56	1,217.63	1,285.78	1,266.26	19.53	65.846	
3,400.00	3,394.91	3,486.29	3,483.59	9.98	11.98	-122.189	11.79	1,212.19	1,282.02	1,262.01	20.00	64.085	
3,500.00	3,494.62	3,617.56	3,614.43	10.30	12.46	-122.665	12.84	1,201.72	1,278.34	1,257.66	20.68	61.826	
3,600.00	3,594.33	3,714.97	3,711.41	10.63	12.81	-123.044	13.99	1,192.64	1,273.32	1,252.07	21.25	59.919	
3,700.00	3,694.04	3,825.04	3,820.91	10.96	13.22	-123.434	14.22	1,181.50	1,267.40	1,245.54	21.86	57.966	
3,800.00	3,793.75	3,912.26	3,907.76	11.29	13.54	-123.720	13.95	1,173.39	1,262.30	1,239.88	22.41	56.317	
3,900.00	3,893.47	4,040.30	4,035.15	11.63	14.02	-124.159	13.77	1,160.65	1,256.71	1,233.62	23.09	54.434	
4,000.00	3,993.18	4,146.43	4,140.51	11.97	14.41	-124.551	13.81	1,147.85	1,249.00	1,225.30	23.70	52.695	
4,100.00	4,092.89	4,230.16	4,223.70	12.31	14.73	-124.849	13.62	1,138.34	1,242.05	1,217.79	24.26	51.197	
4,200.00	4,192.60	4,321.11	4,314.18	12.65	15.07	-125.170	13.47	1,129.18	1,236.39	1,211.55	24.84	49.774	
4,300.00	4,292.31	4,432.50	4,424.97	13.00	15.48	-125.599	13.92	1,117.68	1,230.66	1,205.18	25.49	48.287	
4,400.00	4,392.02	4,528.97	4,520.84	13.34	15.85	-126.011	14.98	1,106.89	1,224.25	1,198.15	26.10	46.911	
4,500.00	4,491.73	4,605.62	4,597.08	13.69	16.13	-126.343	15.99	1,099.12	1,219.00	1,192.34	26.65	45.740	
4,600.00	4,591.44	4,692.82	4,684.00	14.04	16.46	-126.686	16.70	1,092.14	1,215.72	1,188.49	27.23	44.640	
4,700.00	4,691.15	4,791.89	4,782.75	14.39	16.82	-127.068	17.29	1,084.25	1,212.56	1,184.71	27.86	43.525	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 434H - OH / 68223 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 176-MWD+HDGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Measured												Warning	
Depth	Vertical	Measured	Vertical	Semi Major Axis		Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Factor
(usft)	(usft)	Depth	Depth	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor	
		(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)		
4,800.00	4,790.86	4,917.92	4,908.31	14.74	17.29	-127.593	18.69	1,073.51	1,209.14	1,180.56	28.58	42.306	
4,900.00	4,890.57	5,052.54	5,041.88	15.10	17.81	-128.247	21.02	1,056.97	1,201.90	1,172.57	29.33	40.975	
5,000.00	4,990.28	5,136.18	5,124.87	15.45	18.13	-128.647	22.21	1,046.62	1,194.76	1,164.82	29.94	39.902	
5,100.00	5,089.99	5,237.70	5,225.67	15.81	18.51	-129.133	23.68	1,034.67	1,188.34	1,157.73	30.61	38.826	
5,200.00	5,189.70	5,340.94	5,328.04	16.16	18.91	-129.674	25.82	1,021.49	1,181.14	1,149.86	31.29	37.753	
5,300.00	5,289.41	5,425.21	5,411.73	16.52	19.23	-130.094	27.23	1,011.72	1,175.08	1,143.17	31.91	36.824	
5,400.00	5,389.12	5,544.63	5,530.35	16.88	19.69	-130.682	29.01	998.07	1,169.35	1,136.71	32.64	35.822	
5,500.00	5,488.83	5,662.88	5,647.31	17.24	20.15	-131.387	32.23	980.89	1,160.83	1,127.44	33.39	34.765	
5,600.00	5,588.54	5,757.12	5,740.50	17.59	20.53	-131.950	34.61	967.11	1,152.38	1,118.31	34.08	33.817	
5,700.00	5,688.25	5,848.41	5,830.88	17.95	20.88	-132.478	36.58	954.38	1,144.62	1,109.86	34.76	32.931	
5,800.00	5,787.96	5,942.21	5,923.85	18.32	21.25	-132.998	38.21	942.03	1,137.58	1,102.13	35.45	32.093	
5,900.00	5,887.67	6,041.07	6,021.89	18.68	21.63	-133.525	39.48	929.39	1,130.90	1,094.75	36.15	31.284	
6,000.00	5,987.38	6,138.45	6,118.48	19.04	22.01	-134.033	40.43	917.06	1,124.34	1,087.49	36.85	30.510	
6,100.00	6,087.09	6,230.01	6,209.36	19.40	22.37	-134.494	41.01	905.96	1,118.29	1,080.75	37.54	29.792	
6,200.00	6,186.80	6,328.76	6,307.46	19.76	22.75	-134.974	41.40	894.60	1,112.82	1,074.57	38.24	29.098	
6,300.00	6,286.51	6,430.94	6,408.91	20.13	23.14	-135.502	42.24	882.49	1,107.25	1,068.28	38.97	28.412	
6,400.00	6,386.22	6,526.68	6,503.96	20.49	23.51	-136.012	43.20	871.10	1,101.78	1,062.10	39.69	27.763	
6,500.00	6,485.93	6,619.43	6,596.12	20.86	23.87	-136.489	43.89	860.61	1,096.88	1,056.49	40.39	27.157	
6,600.00	6,585.64	6,715.54	6,691.64	21.22	24.24	-137.008	45.13	850.04	1,092.55	1,051.43	41.11	26.574	
6,700.00	6,685.35	6,813.89	6,789.37	21.59	24.62	-137.565	46.87	839.24	1,088.50	1,046.65	41.85	26.008	
6,800.00	6,785.06	6,909.92	6,884.84	21.95	24.99	-138.102	48.45	828.94	1,084.74	1,042.16	42.59	25.471	
6,900.00	6,884.77	7,007.00	6,981.40	22.32	25.36	-138.630	49.84	818.98	1,081.45	1,038.12	43.33	24.961	
7,000.00	6,984.48	7,099.55	7,073.51	22.68	25.71	-139.114	50.94	810.01	1,078.67	1,034.62	44.05	24.490	
7,100.00	7,084.19	7,204.45	7,177.90	23.05	26.11	-139.671	52.29	799.79	1,075.98	1,031.16	44.82	24.008	
7,200.00	7,183.90	7,311.80	7,284.60	23.42	26.52	-140.299	54.30	788.19	1,072.64	1,027.03	45.61	23.516	
7,300.00	7,283.61	7,407.41	7,379.60	23.78	26.89	-140.879	56.31	777.61	1,069.29	1,022.91	46.37	23.057	
7,400.00	7,383.32	7,499.80	7,471.48	24.15	27.24	-141.411	57.95	768.10	1,066.60	1,019.48	47.12	22.636	
7,500.00	7,483.03	7,595.38	7,566.61	24.52	27.61	-141.935	59.36	758.92	1,064.53	1,016.65	47.87	22.237	
7,600.00	7,582.74	7,693.81	7,664.62	24.89	27.98	-142.452	60.49	749.88	1,062.78	1,014.14	48.64	21.852	
7,700.00	7,682.45	7,796.96	7,767.34	25.25	28.37	-142.974	61.31	740.52	1,061.06	1,011.64	49.42	21.472	
7,800.00	7,782.16	7,901.70	7,871.47	25.62	28.77	-143.613	63.61	729.55	1,058.82	1,008.59	50.23	21.079	
7,900.00	7,881.87	7,997.68	7,966.84	25.99	29.14	-144.249	66.47	719.04	1,056.64	1,005.62	51.02	20.709	
8,000.00	7,981.58	8,099.04	8,057.69	26.36	29.49	-144.824	68.93	709.77	1,055.18	1,003.39	51.79	20.373	
8,100.00	8,081.29	8,180.25	8,148.50	26.73	29.84	-145.359	71.09	701.55	1,054.66	1,002.11	52.55	20.070	
8,116.25	8,097.50	8,195.39	8,163.58	26.79	29.89	-145.443	71.40	700.27	1,054.65	1,001.97	52.67	20.022 CC	
8,200.00	8,181.00	8,271.73	8,239.67	27.10	30.18	-145.846	72.77	694.27	1,054.92	1,001.62	53.30	19.793 ES	
8,300.00	8,280.71	8,355.71	8,323.66	27.47	30.49	-146.249	74.01	688.72	1,056.27	1,002.28	53.99	19.563	
8,400.00	8,380.42	8,426.00	8,393.66	27.84	30.74	-146.564	75.45	685.54	1,059.83	1,005.24	54.59	19.414	
8,500.00	8,480.13	8,521.00	8,488.59	28.21	31.08	-146.971	78.06	682.91	1,065.22	1,009.90	55.32	19.255	
8,600.00	8,579.84	8,616.78	8,584.32	28.58	31.41	-147.359	80.67	680.93	1,071.26	1,015.21	56.05	19.112	
8,700.00	8,679.55	8,715.95	8,683.45	28.95	31.75	-147.721	82.81	679.16	1,077.29	1,020.49	56.79	18.968	
8,800.00	8,779.26	8,813.52	8,780.99	29.32	32.09	-148.050	84.57	677.76	1,083.48	1,025.96	57.52	18.836	
8,900.00	8,878.97	8,911.45	8,878.90	29.69	32.43	-148.360	86.19	676.66	1,089.89	1,031.64	58.25	18.711	
9,000.00	8,978.68	9,011.30	8,978.74	30.06	32.77	-148.657	87.61	675.75	1,096.37	1,037.39	58.98	18.588	
9,100.00	9,078.39	9,109.40	9,076.82	30.43	33.11	-148.935	88.85	675.00	1,102.93	1,043.23	59.70	18.473	
9,200.00	9,178.10	9,205.79	9,173.20	30.80	33.44	-149.192	89.99	674.59	1,109.75	1,049.34	60.41	18.370	
9,300.00	9,277.81	9,302.56	9,269.97	31.17	33.76	-149.445	91.28	674.42	1,116.89	1,055.77	61.12	18.275	
9,400.00	9,377.52	9,400.78	9,368.18	31.54	34.09	-149.696	92.62	674.44	1,124.23	1,062.40	61.83	18.183	
9,500.00	9,477.23	9,499.26	9,466.65	31.91	34.42	-149.927	93.74	674.73	1,131.69	1,069.15	62.54	18.096	
9,600.00	9,576.94	9,601.07	9,568.46	32.29	34.76	-150.153	94.76	675.18	1,139.21	1,075.95	63.27	18.007	
9,700.00	9,676.65	9,706.94	9,674.33	32.66	35.11	-150.377	95.40	675.32	1,146.27	1,082.26	64.02	17.905	
9,800.00	9,776.36	9,805.58	9,772.96	33.03	35.44	-150.588	95.92	675.14	1,153.05	1,088.32	64.73	17.813	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 434H - OH / 68223 - Surveys (H&P 474)													Offset Site Error: 0.00 usft
Survey Program: 176-MWD+HDGM													Offset Well Error: 1.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.00	9,876.07	9,904.56	9,871.94	33.40	35.77	-150.762	95.99	675.56	1,160.07	1,094.65	65.43	17.731	
10,000.00	9,975.78	10,006.74	9,974.12	33.77	36.09	-150.908	95.46	676.26	1,166.98	1,100.85	66.13	17.647	
10,100.00	10,075.49	10,110.23	10,077.60	34.14	36.42	-151.042	94.57	676.87	1,173.63	1,106.79	66.84	17.559	
10,200.00	10,175.20	10,213.60	10,180.96	34.52	36.76	-151.154	93.14	677.45	1,179.96	1,112.42	67.54	17.470	
10,300.00	10,274.91	10,311.00	10,278.35	34.89	37.07	-151.260	91.78	677.95	1,186.24	1,118.02	68.22	17.389	
10,400.00	10,374.62	10,412.57	10,379.91	35.26	37.41	-151.395	90.83	678.16	1,192.55	1,123.63	68.92	17.302	
10,500.00	10,474.33	10,512.69	10,480.03	35.63	37.75	-151.572	90.59	677.76	1,198.77	1,129.13	69.64	17.213	
10,600.00	10,574.04	10,611.25	10,578.59	36.01	38.09	-151.779	90.98	676.97	1,205.06	1,134.68	70.37	17.124	
10,700.00	10,673.75	10,710.34	10,677.68	36.38	38.44	-151.995	91.57	676.08	1,211.40	1,140.30	71.10	17.037	
10,800.00	10,773.46	10,809.08	10,776.41	36.75	38.78	-152.222	92.49	675.14	1,217.91	1,146.07	71.84	16.953	
10,900.00	10,873.18	10,914.97	10,882.27	37.12	39.16	-152.494	93.85	673.53	1,224.19	1,151.57	72.63	16.856	
11,000.00	10,972.89	11,017.79	10,985.06	37.50	39.52	-152.761	94.92	671.46	1,229.96	1,156.57	73.40	16.758	
11,100.00	11,072.60	11,119.23	11,086.48	37.87	39.88	-153.012	95.84	669.57	1,235.79	1,161.64	74.16	16.665	
11,200.00	11,172.31	11,221.40	11,188.64	38.24	40.24	-153.237	96.12	667.69	1,241.29	1,166.38	74.91	16.569	
11,300.00	11,272.02	11,319.34	11,286.57	38.62	40.58	-153.445	96.30	666.01	1,246.84	1,171.19	75.65	16.482	
11,381.30	11,353.08	11,398.00	11,365.19	38.92	40.86	-153.659	97.35	664.13	1,251.51	1,175.26	76.25	16.414	
11,400.00	11,371.73	11,416.04	11,383.23	38.98	40.93	-153.713	97.56	663.75	1,252.55	1,176.17	76.38	16.399	
11,500.00	11,471.59	11,499.26	11,466.43	39.34	41.21	-153.892	98.25	662.74	1,256.81	1,179.82	76.99	16.323	
11,599.47	11,571.04	11,581.45	11,548.61	39.49	41.48	52.048	98.67	663.69	1,259.57	1,182.20	77.37	16.280	
11,600.00	11,571.57	11,581.91	11,549.08	39.49	41.49	52.048	98.68	663.70	1,259.58	1,182.21	77.37	16.280	
11,700.00	11,671.57	11,677.84	11,644.98	39.52	41.80	52.074	99.47	665.67	1,261.69	1,184.01	77.68	16.241	
11,800.00	11,771.57	11,784.21	11,751.33	39.52	42.15	52.093	100.37	667.47	1,263.55	1,185.49	78.06	16.187	
11,900.00	11,871.57	11,881.72	11,848.83	39.53	42.47	52.055	101.95	668.17	1,265.12	1,186.72	78.40	16.138	
12,000.00	11,971.57	11,976.60	11,943.69	39.54	42.78	52.051	103.23	669.63	1,267.16	1,188.45	78.71	16.100	
12,099.47	12,071.04	12,075.59	12,042.65	39.54	43.11	52.093	103.88	671.99	1,269.43	1,190.40	79.03	16.063	
12,100.00	12,071.57	12,076.14	12,043.20	39.55	43.11	-127.352	103.88	672.01	1,269.44	1,190.41	79.03	16.063	
12,150.00	12,121.50	12,127.95	12,094.99	39.65	43.28	-127.199	103.83	673.46	1,271.87	1,192.59	79.28	16.042	
12,200.00	12,171.05	12,185.61	12,152.57	39.91	43.46	-126.971	102.53	675.81	1,276.77	1,197.07	79.70	16.020	
12,250.00	12,219.84	13,101.57	12,675.07	40.20	44.99	-104.517	-493.10	838.24	1,269.25	1,197.28	71.97	17.636	
12,300.00	12,267.50	13,124.03	12,675.71	40.50	45.05	-104.936	-515.27	841.77	1,255.19	1,182.90	72.29	17.363	
12,350.00	12,313.66	13,151.58	12,676.37	40.80	45.13	-104.894	-542.49	845.99	1,243.71	1,171.12	72.59	17.133	
12,400.00	12,357.98	13,183.75	12,676.95	41.09	45.22	-104.454	-574.30	850.76	1,234.72	1,161.86	72.86	16.945	
12,450.00	12,400.11	13,220.20	12,677.37	41.38	45.32	-103.674	-610.37	855.97	1,228.07	1,154.95	73.12	16.796	
12,500.00	12,439.74	13,238.43	12,677.50	41.66	45.39	-103.412	-628.40	858.69	1,223.91	1,150.23	73.68	16.610	
12,550.00	12,476.56	13,264.10	12,677.61	41.92	45.47	-102.696	-653.76	862.64	1,222.13	1,147.94	74.18	16.474	
12,564.35	12,486.57	13,271.86	12,677.62	41.99	45.49	-102.449	-661.42	863.87	1,222.04	1,147.71	74.33	16.440	
12,600.00	12,510.29	13,303.00	12,677.59	42.16	45.60	-101.420	-692.14	868.98	1,222.65	1,148.11	74.54	16.403	
12,650.00	12,540.68	13,303.00	12,677.59	42.39	45.60	-101.164	-692.14	868.98	1,225.26	1,149.79	75.47	16.235	
12,700.00	12,567.50	13,345.64	12,677.59	42.58	45.75	-99.594	-734.10	876.54	1,229.59	1,153.72	75.87	16.207	
12,750.00	12,590.54	13,373.93	12,677.74	42.76	45.86	-98.346	-761.87	881.99	1,235.86	1,159.37	76.49	16.157	
12,800.00	12,609.63	13,398.00	12,677.96	42.91	45.95	-97.113	-785.43	886.88	1,243.70	1,166.51	77.19	16.112	
12,850.00	12,624.61	13,440.40	12,678.13	43.03	46.13	-95.571	-826.85	895.95	1,252.73	1,175.00	77.73	16.116	
12,900.00	12,635.39	13,476.85	12,677.78	43.12	46.29	-94.150	-862.38	904.11	1,262.76	1,184.39	78.36	16.114	
12,950.00	12,641.87	13,513.59	12,676.97	43.19	46.46	-92.767	-898.10	912.66	1,273.59	1,194.58	79.01	16.120	
12,999.47	12,644.00	13,550.04	12,675.71	43.23	46.62	-91.455	-933.44	921.47	1,284.98	1,205.32	79.66	16.131	
13,000.00	12,644.00	13,550.43	12,675.70	43.24	46.62	-91.454	-933.82	921.57	1,285.10	1,205.44	79.67	16.131	
13,100.00	12,644.00	13,615.23	12,672.59	43.31	46.93	-91.295	-996.38	938.16	1,309.76	1,228.68	81.09	16.152	
13,200.00	12,644.00	13,681.00	12,670.38	43.39	47.26	-91.178	-1,059.33	957.06	1,337.33	1,254.82	82.50	16.210	
13,300.00	12,644.00	14,298.07	12,653.58	43.50	51.09	-90.408	-1,666.10	1,025.84	1,351.84	1,270.52	81.32	16.623	
13,400.00	12,644.00	14,373.78	12,645.13	43.63	51.63	-90.048	-1,741.08	1,019.69	1,342.77	1,259.61	83.17	16.146	
13,500.00	12,644.00	14,434.00	12,639.02	43.78	52.06	-89.786	-1,800.91	1,016.51	1,336.50	1,251.42	85.08	15.708	
13,600.00	12,644.00	14,476.65	12,636.54	43.96	52.39	-89.679	-1,843.46	1,015.80	1,333.85	1,246.78	87.07	15.320	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 434H - OH / 68223 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 176-MWD+HDCM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Offset												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
13,612.55	12,644.00	14,482.12	12,636.46	43.99	52.43	-89.676	-1,848.94	1,015.84	1,333.82	1,246.50	87.31	15.276	
13,700.00	12,644.00	14,528.00	12,637.89	44.18	52.79	-89.738	-1,894.75	1,017.31	1,335.48	1,246.47	89.02	15.002	
13,800.00	12,644.00	14,610.72	12,643.05	44.44	53.45	-89.960	-1,977.19	1,021.79	1,339.81	1,248.83	90.98	14.727	
13,900.00	12,644.00	14,676.98	12,646.32	44.74	54.00	-90.099	-2,043.23	1,026.03	1,345.33	1,252.40	92.93	14.478	
14,000.00	12,644.00	14,891.55	12,646.06	45.11	55.82	-90.088	-2,257.39	1,032.88	1,347.05	1,252.01	95.04	14.173	
14,100.00	12,644.00	14,983.40	12,640.92	45.54	56.62	-89.869	-2,349.08	1,032.60	1,345.79	1,248.72	97.07	13.864	
14,200.00	12,644.00	15,116.78	12,634.63	46.05	57.81	-89.600	-2,482.29	1,030.78	1,343.43	1,244.24	99.19	13.544	
14,300.00	12,644.00	15,206.29	12,632.47	46.65	58.62	-89.507	-2,571.75	1,029.00	1,340.49	1,239.19	101.30	13.233	
14,400.00	12,644.00	15,304.49	12,630.45	47.33	59.54	-89.419	-2,669.92	1,027.26	1,337.78	1,234.32	103.46	12.931	
14,500.00	12,644.00	15,387.84	12,629.74	48.09	60.33	-89.388	-2,753.26	1,026.44	1,335.84	1,230.24	105.60	12.650	
14,568.87	12,644.00	15,439.78	12,630.68	48.67	60.83	-89.428	-2,805.19	1,026.62	1,335.40	1,228.32	107.08	12.471	
14,600.00	12,644.00	15,471.00	12,631.99	48.94	61.14	-89.485	-2,836.38	1,027.06	1,335.52	1,227.74	107.78	12.391	
14,600.06	12,644.00	15,471.00	12,631.99	48.94	61.14	-89.485	-2,836.38	1,027.06	1,335.52	1,227.74	107.79	12.391	
14,700.00	12,644.00	15,552.78	12,636.77	49.86	61.96	-89.690	-2,918.00	1,028.75	1,336.52	1,226.52	110.00	12.151	
14,800.00	12,644.00	15,653.06	12,641.91	50.85	62.97	-89.911	-3,018.11	1,031.15	1,337.93	1,225.61	112.32	11.912	
14,900.00	12,644.00	15,731.67	12,644.56	51.89	63.78	-90.024	-3,096.63	1,033.56	1,340.04	1,225.53	114.51	11.702	
15,000.00	12,644.00	15,833.49	12,648.63	52.99	64.84	-90.197	-3,198.28	1,037.74	1,343.20	1,226.32	116.88	11.492	
15,100.00	12,644.00	15,971.33	12,652.10	54.12	66.30	-90.345	-3,336.04	1,040.89	1,344.49	1,224.98	119.51	11.250	
15,190.02	12,644.00	16,061.52	12,652.53	55.18	67.26	-90.364	-3,426.22	1,041.53	1,344.27	1,222.62	121.65	11.050	
15,200.00	12,644.00	16,069.38	12,652.49	55.29	67.34	-90.362	-3,434.08	1,041.61	1,344.27	1,222.40	121.87	11.030	
15,300.00	12,644.00	16,148.95	12,651.54	56.49	68.20	-90.321	-3,513.63	1,043.14	1,345.22	1,221.11	124.11	10.839	
15,400.00	12,644.00	16,232.76	12,649.90	57.72	69.12	-90.251	-3,597.38	1,045.90	1,347.54	1,221.17	126.37	10.664	
15,500.00	12,644.00	16,331.94	12,647.20	58.96	70.22	-90.136	-3,696.45	1,049.82	1,350.51	1,221.74	128.77	10.488	
15,600.00	12,644.00	16,441.60	12,645.79	60.22	71.45	-90.076	-3,806.03	1,053.59	1,352.97	1,221.68	131.29	10.305	
15,700.00	12,644.00	16,631.51	12,648.84	61.50	73.59	-90.205	-3,995.83	1,054.45	1,352.98	1,218.52	134.46	10.062	
15,800.00	12,644.00	16,719.86	12,649.07	62.79	74.58	-90.216	-4,084.15	1,051.98	1,349.20	1,212.34	136.86	9.858	
15,900.00	12,644.00	16,825.08	12,647.47	64.09	75.78	-90.148	-4,189.30	1,048.75	1,345.14	1,205.77	139.38	9.651	
16,000.00	12,644.00	16,911.13	12,646.68	65.40	76.77	-90.114	-4,275.32	1,046.69	1,341.77	1,199.99	141.78	9.464	
16,100.00	12,644.00	16,982.00	12,645.92	66.72	77.59	-90.082	-4,346.18	1,045.46	1,339.33	1,195.27	144.05	9.298	
16,155.51	12,644.00	17,027.88	12,645.49	67.45	78.13	-90.064	-4,392.05	1,045.33	1,338.71	1,193.35	145.36	9.209	
16,200.00	12,644.00	17,053.76	12,645.47	68.04	78.44	-90.063	-4,417.93	1,045.75	1,339.01	1,192.71	146.30	9.152	
16,300.00	12,644.00	17,149.98	12,644.82	69.38	79.58	-90.035	-4,514.09	1,048.70	1,341.08	1,192.29	148.80	9.013	
16,400.00	12,644.00	17,253.00	12,640.80	70.72	80.81	-89.863	-4,617.01	1,051.15	1,342.50	1,191.14	151.36	8.870	
16,500.00	12,644.00	17,324.47	12,638.32	72.07	81.67	-89.758	-4,688.39	1,053.48	1,344.86	1,191.30	153.55	8.758	
16,600.00	12,644.00	17,409.54	12,637.33	73.42	82.71	-89.716	-4,773.32	1,058.13	1,349.31	1,193.39	155.92	8.654	
16,700.00	12,644.00	17,738.00	12,634.66	74.77	86.64	-89.598	-5,100.80	1,044.52	1,341.22	1,181.06	160.16	8.374	
16,800.00	12,644.00	17,797.13	12,634.54	76.13	87.34	-89.591	-5,159.61	1,038.40	1,330.13	1,167.47	162.66	8.177	
16,900.00	12,644.00	17,852.27	12,635.55	77.49	88.01	-89.633	-5,214.62	1,034.83	1,322.61	1,157.56	165.05	8.013	
17,000.00	12,644.00	17,927.00	12,637.46	78.86	88.92	-89.715	-5,289.29	1,032.44	1,318.23	1,150.74	167.50	7.870	
17,100.00	12,644.00	17,988.49	12,638.83	80.23	89.68	-89.775	-5,350.76	1,031.95	1,316.16	1,146.39	169.77	7.753	
17,200.00	12,644.00	18,089.72	12,638.92	81.60	90.94	-89.779	-5,451.98	1,032.16	1,315.40	1,142.99	172.41	7.630	
17,286.64	12,644.00	18,160.80	12,636.99	82.80	91.83	-89.694	-5,523.03	1,032.15	1,314.62	1,140.13	174.50	7.534	
17,300.00	12,644.00	18,170.10	12,636.83	82.98	91.95	-89.688	-5,532.33	1,032.25	1,314.64	1,139.85	174.80	7.521	
17,400.00	12,644.00	18,239.53	12,636.48	84.36	92.82	-89.672	-5,601.74	1,033.94	1,316.11	1,139.09	177.02	7.435	
17,500.00	12,644.00	18,311.72	12,636.33	85.74	93.74	-89.667	-5,673.84	1,037.40	1,319.90	1,140.69	179.21	7.365	
17,600.00	12,644.00	18,415.17	12,632.78	87.12	95.06	-89.514	-5,777.08	1,042.82	1,324.19	1,142.29	181.90	7.280	
17,700.00	12,644.00	18,494.00	12,629.18	88.51	96.07	-89.360	-5,855.64	1,048.14	1,329.91	1,145.76	184.15	7.222	
17,800.00	12,644.00	18,580.15	12,626.82	89.89	97.18	-89.262	-5,941.48	1,055.10	1,336.98	1,150.45	186.53	7.168	
17,900.00	12,644.00	18,737.35	12,632.81	91.28	99.22	-89.522	-6,098.24	1,063.86	1,341.34	1,151.02	190.31	7.048	
18,000.00	12,644.00	18,867.89	12,639.54	92.67	100.91	-89.810	-6,228.55	1,067.57	1,343.24	1,149.73	193.51	6.942	
18,100.00	12,644.00	18,954.81	12,643.67	94.07	102.03	-89.986	-6,315.36	1,069.24	1,344.20	1,148.16	196.04	6.857	
18,200.00	12,644.00	19,051.88	12,648.27	95.46	103.30	-90.182	-6,412.28	1,071.85	1,345.93	1,147.20	198.73	6.773	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 434H - OH / 68223 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 176-MWD+HDCM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
18,300.00	12,644.00	19,151.33	12,652.33	96.85	104.59	-90.354	-6,511.61	1,074.57	1,347.72	1,146.26	201.45	6.690	
18,400.00	12,644.00	19,251.43	12,654.09	98.25	105.90	-90.428	-6,611.65	1,077.34	1,349.53	1,145.36	204.17	6.610	
18,500.00	12,644.00	19,346.58	12,653.65	99.65	107.15	-90.409	-6,706.75	1,080.14	1,351.51	1,144.71	206.80	6.535	
18,600.00	12,644.00	19,441.00	12,653.18	101.05	108.38	-90.389	-6,801.12	1,083.27	1,353.85	1,144.44	209.41	6.465	
18,700.00	12,644.00	19,506.99	12,652.79	102.45	109.26	-90.371	-6,867.03	1,086.42	1,357.66	1,146.15	211.51	6.419	
18,800.00	12,644.00	19,572.33	12,652.29	103.85	110.12	-90.349	-6,932.19	1,091.19	1,364.00	1,150.52	213.48	6.389	
18,900.00	12,644.00	19,660.56	12,651.54	105.25	111.29	-90.316	-7,019.99	1,099.87	1,372.78	1,156.86	215.92	6.358	
19,000.00	12,644.00	19,948.62	12,642.15	106.65	115.08	-89.922	-7,307.46	1,101.11	1,368.20	1,146.71	221.48	6.177	
19,100.00	12,644.00	20,043.37	12,638.79	108.06	116.32	-89.781	-7,402.07	1,097.37	1,363.29	1,139.15	224.14	6.082	
19,200.00	12,644.00	20,144.40	12,635.94	109.46	117.64	-89.660	-7,502.98	1,093.28	1,358.28	1,131.44	226.84	5.988	
19,300.00	12,644.00	20,254.18	12,635.91	110.87	119.07	-89.657	-7,612.66	1,088.84	1,353.30	1,123.69	229.62	5.894	
19,400.00	12,644.00	20,364.48	12,635.76	112.28	120.52	-89.649	-7,722.81	1,083.00	1,347.03	1,114.64	232.38	5.797	
19,500.00	12,644.00	20,470.28	12,636.19	113.68	121.90	-89.665	-7,828.44	1,077.00	1,340.39	1,105.27	235.13	5.701	
19,600.00	12,644.00	20,551.92	12,637.07	115.09	122.97	-89.702	-7,909.95	1,072.62	1,334.08	1,096.31	237.77	5.611	
19,700.00	12,644.00	20,623.71	12,639.01	116.50	123.93	-89.785	-7,981.67	1,070.03	1,329.51	1,089.21	240.30	5.533	
19,800.00	12,644.00	20,707.13	12,642.32	117.91	125.04	-89.927	-8,065.01	1,068.89	1,327.10	1,084.19	242.90	5.463	
19,900.00	12,644.00	20,809.00	12,646.33	119.32	126.40	-90.101	-8,166.80	1,067.32	1,324.59	1,078.88	245.71	5.391	
20,000.00	12,644.00	20,902.72	12,650.93	120.73	127.66	-90.300	-8,260.40	1,066.38	1,322.63	1,074.21	248.42	5.324	
20,033.47	12,644.00	20,912.00	12,651.39	121.21	127.78	-90.320	-8,269.66	1,066.30	1,322.24	1,073.22	249.02	5.310	
20,100.00	12,644.00	20,912.00	12,651.39	122.15	127.78	-90.320	-8,269.66	1,066.30	1,323.91	1,074.32	249.59	5.304 SF	
20,200.00	12,644.00	20,912.00	12,651.39	123.56	127.78	-90.320	-8,269.66	1,066.30	1,332.69	1,083.26	249.43	5.343	
20,300.00	12,644.00	20,912.00	12,651.39	124.97	127.78	-90.320	-8,269.66	1,066.30	1,348.84	1,100.75	248.09	5.437	
20,400.00	12,644.00	20,912.00	12,651.39	126.38	127.78	-90.320	-8,269.66	1,066.30	1,372.10	1,126.43	245.67	5.585	
20,500.00	12,644.00	20,912.00	12,651.39	127.80	127.78	-90.320	-8,269.66	1,066.30	1,402.13	1,159.79	242.34	5.786	
20,600.00	12,644.00	20,912.00	12,651.39	129.21	127.78	-90.320	-8,269.66	1,066.30	1,438.50	1,200.24	238.26	6.038	
20,700.00	12,644.00	20,912.00	12,651.39	130.63	127.78	-90.320	-8,269.66	1,066.30	1,480.74	1,247.13	233.60	6.339	
20,800.00	12,644.00	20,912.00	12,651.39	132.04	127.78	-90.320	-8,269.66	1,066.30	1,528.36	1,299.81	228.55	6.687	
20,900.00	12,644.00	20,912.00	12,651.39	133.46	127.78	-90.320	-8,269.66	1,066.30	1,580.88	1,357.63	223.25	7.081	
21,000.00	12,644.00	20,912.00	12,651.39	134.88	127.78	-90.320	-8,269.66	1,066.30	1,637.83	1,420.00	217.84	7.519	
21,100.00	12,644.00	20,912.00	12,651.39	136.29	127.78	-90.320	-8,269.66	1,066.30	1,698.77	1,486.35	212.42	7.997	
21,200.00	12,644.00	20,912.00	12,651.39	137.71	127.78	-90.320	-8,269.66	1,066.30	1,763.27	1,556.20	207.07	8.515	
21,300.00	12,644.00	20,912.00	12,651.39	139.13	127.78	-90.320	-8,269.66	1,066.30	1,830.96	1,629.10	201.86	9.070	
21,400.00	12,644.00	20,912.00	12,651.39	140.54	127.78	-90.320	-8,269.66	1,066.30	1,901.51	1,704.67	196.83	9.660	
21,500.00	12,644.00	20,912.00	12,651.39	141.96	127.78	-90.320	-8,269.66	1,066.30	1,974.60	1,782.58	192.02	10.283	
21,600.00	12,644.00	20,912.00	12,651.39	143.38	127.78	-90.320	-8,269.66	1,066.30	2,049.96	1,862.53	187.43	10.937	
21,700.00	12,644.00	20,912.00	12,651.39	144.80	127.78	-90.320	-8,269.66	1,066.30	2,127.36	1,944.28	183.08	11.620	
21,800.00	12,644.00	20,912.00	12,651.39	146.22	127.78	-90.320	-8,269.66	1,066.30	2,206.57	2,027.60	178.97	12.330	
21,900.00	12,644.00	20,912.00	12,651.39	147.64	127.78	-90.320	-8,269.66	1,066.30	2,287.41	2,112.32	175.09	13.064	
22,000.00	12,644.00	20,912.00	12,651.39	149.06	127.78	-90.320	-8,269.66	1,066.30	2,369.72	2,198.27	171.45	13.822	
22,100.00	12,644.00	20,912.00	12,651.39	150.48	127.78	-90.320	-8,269.66	1,066.30	2,453.34	2,285.31	168.02	14.601	
22,199.47	12,644.00	20,912.00	12,651.39	151.89	127.78	-90.320	-8,269.66	1,066.30	2,537.69	2,372.87	164.83	15.396	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 514H - OH / 68224 - Suveys (H&P 474)													Offset Site Error: 0.00 usft
Survey Program: 176-MWD+HDGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	3.00	1.00	1.00	90.623	-14.69	1,352.17	1,352.26				
100.00	100.00	99.41	102.41	1.08	1.01	90.629	-14.83	1,352.08	1,352.17	1,350.07	2.10	645.254	
200.00	200.00	201.65	204.65	1.60	1.06	90.646	-15.25	1,351.81	1,351.90	1,349.24	2.66	507.961	
300.00	300.00	303.53	306.52	2.01	1.23	90.663	-15.63	1,351.39	1,351.50	1,348.25	3.24	416.544	
400.00	400.00	403.21	406.20	2.35	1.47	90.693	-16.35	1,350.88	1,351.00	1,347.17	3.83	353.120	
500.00	500.00	504.94	507.93	2.65	1.76	90.711	-16.75	1,350.37	1,350.49	1,346.08	4.41	306.055	
600.00	600.00	602.18	605.16	2.93	2.05	90.741	-17.46	1,349.88	1,350.00	1,345.02	4.98	271.019	
700.00	700.00	700.52	703.50	3.18	2.37	90.787	-18.53	1,349.57	1,349.71	1,344.16	5.55	243.365	
800.00	800.00	806.12	809.10	3.41	2.72	90.825	-19.41	1,349.02	1,349.19	1,343.06	6.13	220.151	
900.00	900.00	903.30	906.27	3.64	3.04	90.848	-19.96	1,348.40	1,348.56	1,341.88	6.68	201.994	
1,000.00	1,000.00	998.77	1,001.74	3.85	3.36	90.873	-20.54	1,348.22	1,348.38	1,341.17	7.21	187.009	
1,100.00	1,100.00	1,102.11	1,105.08	4.05	3.72	90.912	-21.45	1,347.83	1,348.01	1,340.24	7.77	173.580	
1,169.04	1,169.04	1,166.08	1,169.04	4.18	3.94	90.938	-22.07	1,347.67	1,347.85	1,339.73	8.12	166.002 CC	
1,200.00	1,200.00	1,193.62	1,196.58	4.24	4.03	90.950	-22.35	1,347.70	1,347.89	1,339.61	8.27	162.914 ES	
1,300.00	1,300.00	1,282.74	1,285.70	4.43	4.34	90.991	-23.31	1,348.27	1,348.55	1,339.78	8.76	153.888	
1,400.00	1,400.00	1,376.57	1,379.51	4.61	4.65	91.043	-24.56	1,349.55	1,349.92	1,340.66	9.26	145.762	
1,500.00	1,500.00	1,504.64	1,507.55	4.78	5.10	91.120	-26.41	1,350.65	1,350.93	1,341.05	9.88	136.772	
1,600.00	1,599.98	1,620.95	1,623.83	4.98	5.50	-114.852	-28.61	1,349.08	1,350.32	1,339.90	10.42	129.534	
1,618.03	1,617.99	1,638.50	1,641.38	5.09	5.57	-114.864	-28.94	1,348.77	1,350.30	1,339.77	10.53	128.274	
1,700.00	1,699.84	1,718.33	1,721.18	5.60	5.85	-114.962	-30.38	1,347.42	1,350.86	1,339.87	10.99	122.920	
1,718.18	1,717.96	1,736.06	1,738.91	5.62	5.91	-114.993	-30.70	1,347.13	1,351.13	1,340.08	11.06	122.206	
1,800.00	1,799.55	1,815.90	1,818.72	5.72	6.19	-115.164	-32.16	1,345.93	1,352.56	1,341.15	11.41	118.495	
1,900.00	1,899.26	1,913.21	1,916.01	5.89	6.54	-115.372	-33.92	1,344.61	1,354.48	1,342.58	11.90	113.859	
2,000.00	1,998.97	2,010.50	2,013.28	6.09	6.88	-115.575	-35.80	1,343.51	1,356.65	1,344.26	12.39	109.505	
2,100.00	2,098.68	2,114.74	2,117.49	6.30	7.26	-115.794	-37.77	1,342.29	1,358.79	1,345.88	12.91	105.246	
2,200.00	2,198.39	2,222.43	2,225.14	6.53	7.64	-116.024	-39.66	1,340.43	1,360.39	1,346.94	13.45	101.160	
2,300.00	2,298.10	2,321.74	2,324.42	6.77	7.99	-116.249	-41.13	1,338.41	1,361.71	1,347.75	13.96	97.544	
2,400.00	2,397.81	2,416.56	2,419.22	7.02	8.33	-116.464	-42.48	1,336.76	1,363.34	1,348.88	14.46	94.280	
2,500.00	2,497.52	2,512.43	2,515.07	7.28	8.67	-116.678	-43.93	1,335.42	1,365.34	1,350.37	14.97	91.209	
2,600.00	2,597.23	2,607.77	2,610.39	7.55	9.01	-116.893	-45.29	1,334.35	1,367.63	1,352.15	15.48	88.346	
2,700.00	2,696.94	2,701.56	2,704.17	7.83	9.35	-117.108	-46.54	1,333.67	1,370.34	1,354.35	15.99	85.705	
2,800.00	2,796.65	2,794.61	2,797.22	8.12	9.68	-117.321	-47.74	1,333.43	1,373.53	1,357.04	16.50	83.259	
2,900.00	2,896.36	2,898.64	2,901.23	8.42	10.05	-117.559	-49.06	1,333.46	1,377.05	1,360.01	17.05	80.773	
3,000.00	2,996.07	3,020.37	3,022.95	8.72	10.48	-117.840	-50.54	1,332.17	1,379.52	1,361.85	17.67	78.080	
3,100.00	3,095.78	3,114.91	3,117.47	9.03	10.82	-118.055	-51.78	1,330.47	1,381.25	1,363.05	18.19	75.923	
3,200.00	3,195.49	3,212.43	3,214.97	9.34	11.17	-118.277	-53.02	1,329.08	1,383.37	1,364.64	18.73	73.852	
3,300.00	3,295.20	3,314.42	3,316.95	9.66	11.53	-118.537	-53.64	1,327.60	1,385.52	1,366.23	19.29	71.835	
3,400.00	3,394.91	3,408.00	3,410.52	9.98	11.86	-118.787	-53.88	1,326.44	1,387.92	1,368.11	19.82	70.042	
3,500.00	3,494.62	3,486.96	3,489.48	10.30	12.13	-118.995	-54.12	1,326.24	1,391.31	1,371.02	20.29	68.586	
3,600.00	3,594.33	3,577.83	3,580.35	10.63	12.43	-119.241	-54.15	1,326.93	1,395.77	1,374.98	20.79	67.130	
3,700.00	3,694.04	3,705.45	3,707.96	10.96	12.87	-119.589	-54.10	1,327.18	1,399.77	1,378.33	21.44	65.277	
3,800.00	3,793.75	3,795.23	3,797.74	11.29	13.19	-119.816	-54.51	1,326.81	1,403.09	1,381.11	21.97	63.854	
3,900.00	3,893.47	3,892.34	3,894.85	11.63	13.53	-120.051	-55.18	1,326.67	1,406.70	1,384.17	22.53	62.431	
4,000.00	3,993.18	3,989.39	3,991.89	11.97	13.88	-120.281	-55.92	1,326.72	1,410.53	1,387.43	23.09	61.085	
4,100.00	4,092.89	4,087.40	4,089.90	12.31	14.22	-120.510	-56.67	1,326.98	1,414.58	1,390.93	23.66	59.800	
4,200.00	4,192.60	4,203.66	4,206.15	12.65	14.64	-120.777	-57.71	1,326.87	1,418.34	1,394.04	24.29	58.383	
4,300.00	4,292.31	4,314.26	4,316.72	13.00	15.03	-121.001	-59.54	1,325.13	1,420.50	1,395.59	24.91	57.019	
4,400.00	4,392.02	4,402.68	4,405.12	13.34	15.35	-121.169	-61.23	1,324.07	1,423.07	1,397.62	25.45	55.915	
4,500.00	4,491.73	4,489.68	4,492.11	13.69	15.66	-121.332	-62.87	1,323.82	1,426.57	1,400.58	25.98	54.905	
4,600.00	4,591.44	4,588.71	4,591.12	14.04	16.01	-121.522	-64.56	1,324.22	1,430.78	1,404.22	26.56	53.867	
4,700.00	4,691.15	4,689.10	4,701.48	14.39	16.40	-121.704	-67.18	1,324.00	1,434.33	1,407.14	27.19	52.758	
4,800.00	4,790.86	4,829.60	4,831.91	14.74	16.87	-121.897	-70.99	1,322.31	1,436.83	1,408.94	27.89	51.523	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 514H - OH / 68224 - Suveys (H&P 474)													Offset Site Error: 0.00 usft
Survey Program: 176-MWD+HDGM													Offset Well Error: 1.00 usft
Rule Assigned:													
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
4,900.00	4,890.57	4,904.98	4,907.24	15.10	17.15	-122.000	-73.42	1,321.09	1,438.89	1,410.51	28.38	50.692	
5,000.00	4,990.28	5,021.95	5,024.13	15.45	17.57	-122.142	-77.56	1,319.78	1,441.49	1,412.46	29.04	49.644	
5,100.00	5,089.99	5,156.05	5,158.04	15.81	18.05	-122.268	-83.48	1,315.79	1,442.15	1,412.41	29.74	48.490	
5,200.00	5,189.70	5,280.95	5,282.61	16.16	18.50	-122.383	-89.40	1,309.18	1,440.38	1,409.97	30.41	47.370	
5,300.00	5,289.41	5,396.63	5,397.92	16.52	18.92	-122.495	-94.88	1,301.65	1,437.46	1,406.42	31.04	46.306	
5,400.00	5,389.12	5,489.00	5,489.96	16.88	19.26	-122.576	-99.52	1,295.42	1,434.27	1,402.66	31.61	45.371	
5,500.00	5,488.83	5,584.00	5,584.64	17.24	19.60	-122.647	-104.55	1,289.44	1,431.51	1,399.32	32.19	44.472	
5,600.00	5,588.54	5,692.03	5,692.32	17.59	20.00	-122.742	-109.95	1,282.58	1,428.73	1,395.92	32.81	43.551	
5,700.00	5,688.25	5,805.62	5,805.49	17.95	20.41	-122.902	-114.29	1,273.85	1,424.71	1,391.27	33.44	42.601	
5,800.00	5,787.96	5,894.11	5,893.68	18.32	20.73	-123.033	-117.49	1,267.31	1,421.07	1,387.05	34.01	41.780	
5,900.00	5,887.67	5,994.15	5,993.41	18.68	21.09	-123.177	-121.18	1,260.39	1,417.90	1,383.28	34.62	40.960	
6,000.00	5,987.38	6,092.79	6,091.74	19.04	21.45	-123.358	-123.93	1,253.08	1,414.36	1,379.14	35.22	40.157	
6,100.00	6,087.09	6,175.91	6,174.67	19.40	21.74	-123.565	-124.82	1,247.56	1,411.81	1,376.02	35.78	39.453	
6,200.00	6,186.80	6,263.69	6,262.30	19.76	22.05	-123.803	-125.20	1,242.49	1,410.24	1,373.87	36.36	38.781	
6,300.00	6,286.51	6,351.22	6,349.72	20.13	22.36	-124.057	-125.09	1,238.13	1,409.57	1,372.63	36.94	38.154	
6,327.45	6,313.88	6,375.57	6,374.05	20.23	22.45	-124.130	-124.96	1,237.04	1,409.54	1,372.43	37.11	37.988	
6,400.00	6,386.22	6,439.68	6,438.10	20.49	22.67	-124.331	-124.45	1,234.38	1,409.76	1,372.23	37.53	37.564	
6,500.00	6,485.93	6,527.00	6,525.37	20.86	22.98	-124.590	-123.95	1,231.49	1,410.87	1,372.76	38.11	37.022	
6,600.00	6,585.64	6,611.50	6,609.85	21.22	23.27	-124.822	-123.82	1,229.58	1,412.99	1,374.31	38.68	36.535	
6,700.00	6,685.35	6,710.66	6,709.00	21.59	23.62	-125.089	-123.67	1,227.92	1,415.72	1,376.42	39.30	36.022	
6,800.00	6,785.06	6,793.11	6,791.44	21.95	23.90	-125.321	-123.20	1,226.92	1,419.02	1,379.17	39.85	35.605	
6,900.00	6,884.77	6,867.59	6,865.90	22.32	24.15	-125.547	-122.20	1,227.03	1,423.83	1,383.46	40.36	35.276	
7,000.00	6,984.48	6,953.95	6,952.23	22.68	24.43	-125.832	-120.17	1,228.50	1,430.32	1,389.39	40.92	34.951	
7,100.00	7,084.19	7,053.69	7,051.93	23.05	24.75	-126.154	-117.89	1,230.35	1,437.02	1,395.47	41.55	34.586	
7,200.00	7,183.90	7,155.42	7,153.61	23.42	25.09	-126.484	-115.47	1,232.20	1,443.76	1,401.57	42.19	34.222	
7,300.00	7,283.61	7,252.67	7,250.81	23.78	25.40	-126.810	-112.85	1,233.77	1,450.41	1,407.60	42.81	33.879	
7,400.00	7,383.32	7,343.00	7,341.08	24.15	25.70	-127.123	-110.03	1,235.55	1,457.53	1,414.13	43.40	33.580	
7,500.00	7,483.03	7,436.23	7,434.23	24.52	26.01	-127.434	-107.20	1,238.00	1,465.33	1,421.32	44.01	33.293	
7,600.00	7,582.74	7,535.51	7,533.43	24.89	26.33	-127.748	-104.52	1,240.87	1,473.35	1,428.70	44.65	32.996	
7,700.00	7,682.45	7,643.49	7,641.34	25.25	26.69	-128.075	-101.94	1,243.77	1,481.17	1,435.84	45.34	32.670	
7,800.00	7,782.16	7,752.75	7,750.56	25.62	27.05	-128.401	-99.50	1,245.96	1,488.33	1,442.30	46.03	32.334	
7,900.00	7,881.87	7,852.87	7,850.64	25.99	27.38	-128.699	-97.29	1,247.61	1,495.18	1,448.50	46.68	32.030	
8,000.00	7,981.58	7,964.29	7,962.03	26.36	27.75	-129.018	-95.20	1,249.04	1,501.62	1,454.24	47.39	31.688	
8,100.00	8,081.29	8,071.11	8,068.83	26.73	28.11	-129.332	-93.04	1,249.72	1,507.53	1,459.45	48.08	31.357	
8,200.00	8,181.00	8,178.95	8,176.64	27.10	28.48	-129.650	-90.91	1,249.79	1,512.90	1,464.12	48.77	31.018	
8,300.00	8,280.71	8,282.89	8,280.58	27.47	28.83	-129.944	-89.24	1,249.51	1,517.90	1,468.44	49.46	30.692	
8,400.00	8,380.42	8,382.33	8,380.00	27.84	29.17	-130.218	-87.83	1,249.13	1,522.79	1,472.67	50.12	30.385	
8,500.00	8,480.13	8,483.51	8,481.18	28.21	29.51	-130.486	-86.60	1,248.84	1,527.75	1,476.96	50.79	30.081	
8,600.00	8,579.84	8,580.62	8,578.28	28.58	29.84	-130.737	-85.56	1,248.52	1,532.66	1,481.23	51.44	29.796	
8,700.00	8,679.55	8,675.14	8,672.80	28.95	30.16	-130.977	-84.53	1,248.51	1,537.92	1,485.84	52.08	29.531	
8,800.00	8,779.26	8,772.21	8,769.86	29.32	30.49	-131.215	-83.61	1,248.81	1,543.48	1,490.75	52.73	29.272	
8,900.00	8,878.97	8,869.69	8,867.33	29.69	30.82	-131.449	-82.70	1,249.24	1,549.19	1,495.81	53.38	29.021	
9,000.00	8,978.68	8,965.50	8,963.14	30.06	31.15	-131.683	-81.65	1,249.81	1,555.11	1,501.08	54.03	28.783	
9,100.00	9,078.39	9,061.30	9,058.92	30.43	31.47	-131.919	-80.42	1,250.58	1,561.31	1,506.64	54.68	28.554	
9,200.00	9,178.10	9,162.89	9,160.50	30.80	31.82	-132.164	-79.16	1,251.50	1,567.63	1,512.28	55.36	28.318	
9,300.00	9,277.81	9,269.10	9,266.70	31.17	32.18	-132.418	-77.96	1,252.17	1,573.69	1,517.63	56.06	28.071	
9,400.00	9,377.52	9,367.28	9,364.88	31.54	32.51	-132.654	-76.80	1,252.60	1,579.60	1,522.87	56.73	27.845	
9,500.00	9,477.23	9,465.92	9,463.51	31.91	32.85	-132.889	-75.64	1,253.12	1,585.61	1,528.21	57.40	27.624	
9,600.00	9,576.94	9,569.54	9,567.12	32.29	33.20	-133.129	-74.54	1,253.64	1,591.61	1,533.52	58.09	27.397	
9,700.00	9,676.65	9,683.48	9,681.06	32.66	33.59	-133.385	-73.73	1,253.58	1,597.00	1,538.15	58.84	27.140	
9,800.00	9,776.36	9,788.22	9,785.80	33.03	33.96	-133.601	-73.68	1,252.95	1,601.68	1,542.13	59.55	26.898	
9,900.00	9,876.07	9,890.45	9,888.02	33.40	34.32	-133.796	-74.01	1,252.43	1,606.35	1,546.11	60.24	26.666	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 514H - OH / 68224 - Suveys (H&P 474)													Offset Site Error: 0.00 usft
Survey Program: 176-MWD+HDGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,000.00	9,975.78	9,995.32	9,992.89	33.77	34.70	-133.985	-74.74	1,251.65	1,610.71	1,549.77	60.94	26.429	
10,100.00	10,075.49	10,094.72	10,092.28	34.14	35.05	-134.157	-75.66	1,250.81	1,614.93	1,553.30	61.62	26.206	
10,200.00	10,175.20	10,202.86	10,200.41	34.52	35.43	-134.351	-76.46	1,249.67	1,619.01	1,556.67	62.34	25.969	
10,300.00	10,274.91	10,310.43	10,307.96	34.89	35.81	-134.581	-76.47	1,247.61	1,622.53	1,559.46	63.07	25.725	
10,400.00	10,374.62	10,410.28	10,407.79	35.26	36.17	-134.806	-76.21	1,245.35	1,625.83	1,562.06	63.77	25.495	
10,500.00	10,474.33	10,506.62	10,504.11	35.63	36.51	-135.029	-75.72	1,243.29	1,629.34	1,564.88	64.46	25.278	
10,600.00	10,574.04	10,617.35	10,614.79	36.01	36.90	-135.277	-75.48	1,240.53	1,632.45	1,567.25	65.21	25.035	
10,700.00	10,673.75	10,716.40	10,713.81	36.38	37.25	-135.462	-76.31	1,238.28	1,635.45	1,569.55	65.90	24.818	
10,800.00	10,773.46	10,823.17	10,820.54	36.75	37.63	-135.628	-78.13	1,235.97	1,638.28	1,571.67	66.61	24.594	
10,900.00	10,873.18	10,917.47	10,914.80	37.12	37.97	-135.767	-80.04	1,233.71	1,640.80	1,573.53	67.27	24.390	
11,000.00	10,972.89	11,002.78	11,000.09	37.50	38.27	-135.887	-81.66	1,232.47	1,644.24	1,576.34	67.90	24.217	
11,100.00	11,072.60	11,096.20	11,093.49	37.87	38.60	-136.024	-83.05	1,231.57	1,648.30	1,579.75	68.55	24.043	
11,200.00	11,172.31	11,195.49	11,192.77	38.24	38.95	-136.176	-84.29	1,230.73	1,652.57	1,583.33	69.24	23.867	
11,300.00	11,272.02	11,299.50	11,296.76	38.62	39.32	-136.319	-86.04	1,229.90	1,656.74	1,586.80	69.94	23.686	
11,381.30	11,353.08	11,382.22	11,379.46	38.92	39.62	-136.431	-87.52	1,229.04	1,659.92	1,589.42	70.50	23.544	
11,400.00	11,371.73	11,400.27	11,397.51	38.98	39.68	-136.463	-87.87	1,228.87	1,660.62	1,589.99	70.62	23.513	
11,500.00	11,471.59	11,494.33	11,491.54	39.34	40.01	-136.550	-90.04	1,228.27	1,662.99	1,591.75	71.24	23.343	
11,599.47	11,571.04	11,593.71	11,590.88	39.49	40.37	-136.481	-92.93	1,228.18	1,663.15	1,591.46	71.69	23.198	
11,600.00	11,571.57	11,594.27	11,591.43	39.49	40.37	-136.482	-92.94	1,228.18	1,663.15	1,591.45	71.70	23.197	
11,700.00	11,671.57	11,702.42	11,699.54	39.52	40.75	-136.587	-96.33	1,227.81	1,661.73	1,589.67	72.06	23.061	
11,800.00	11,771.57	11,809.54	11,806.57	39.52	41.13	-136.711	-100.41	1,227.15	1,659.83	1,587.42	72.41	22.923	
11,900.00	11,871.57	11,904.48	11,901.44	39.53	41.47	-136.829	-104.27	1,226.57	1,657.85	1,585.14	72.71	22.802	
12,000.00	11,971.57	11,994.69	11,991.58	39.54	41.79	-136.938	-107.68	1,226.37	1,656.34	1,583.35	72.99	22.694	
12,099.47	12,071.04	12,096.72	12,093.55	39.54	42.15	-137.050	-111.18	1,226.29	1,655.10	1,581.78	73.32	22.574	
12,100.00	12,071.57	12,097.27	12,094.09	39.55	42.15	-137.096	-111.20	1,226.29	1,655.09	1,581.77	73.32	22.574	
12,123.97	12,095.53	12,122.21	12,119.03	39.59	42.24	-137.403	-112.03	1,226.22	1,654.93	1,581.51	73.43	22.539	
12,150.00	12,121.50	12,149.29	12,146.09	39.65	42.33	-137.415	-112.92	1,226.12	1,655.12	1,581.57	73.55	22.502	
12,200.00	12,171.05	12,196.54	12,193.31	39.91	42.50	-137.431	-114.41	1,225.93	1,656.58	1,582.70	73.88	22.422	
12,250.00	12,219.84	12,239.34	12,236.10	40.20	42.65	-137.406	-115.56	1,225.82	1,659.68	1,585.42	74.27	22.347	
12,300.00	12,267.50	12,281.14	12,277.89	40.50	42.80	-137.334	-116.46	1,225.80	1,664.49	1,589.77	74.72	22.277	
12,350.00	12,313.66	12,329.00	12,325.74	40.80	42.97	-137.296	-117.23	1,225.88	1,671.06	1,595.80	75.26	22.204	
12,400.00	12,357.98	12,370.03	12,366.77	41.09	43.11	-137.121	-117.81	1,225.96	1,679.29	1,603.46	75.83	22.145	
12,450.00	12,400.11	12,416.00	12,412.74	41.38	44.14	-137.193	-119.75	1,227.20	1,686.94	1,610.27	76.67	22.003	
12,500.00	12,439.74	12,463.30	12,460.04	41.66	44.25	-137.191	-121.07	1,228.45	1,691.87	1,614.67	77.19	21.917	
12,550.00	12,476.56	12,500.15	12,496.80	41.92	46.41	-136.336	-126.60	1,269.41	1,688.63	1,615.62	73.01	23.129	
12,600.00	12,510.29	12,536.42	12,533.00	42.16	46.54	-136.200	-127.72	1,272.56	1,681.34	1,607.82	73.51	22.872	
12,650.00	12,540.68	12,563.70	12,560.32	42.39	46.71	-135.826	-127.82	1,276.43	1,675.74	1,601.73	74.01	22.642	
12,700.00	12,567.50	12,590.12	12,586.62	42.58	46.88	-135.350	-128.04	1,280.62	1,671.68	1,597.13	74.54	22.426	
12,750.00	12,590.54	12,613.00	12,609.44	42.76	47.03	-134.930	-128.73	1,284.32	1,669.08	1,593.91	75.17	22.203	
12,800.00	12,609.63	12,632.82	12,629.15	42.91	47.20	-134.442	-130.30	1,288.26	1,668.08	1,592.23	75.85	21.992	
12,804.37	12,611.10	12,634.78	12,631.20	42.92	47.21	-134.403	-130.25	1,288.57	1,668.07	1,592.16	75.91	21.973	
12,850.00	12,624.61	12,647.23	12,643.81	43.03	47.34	-133.959	-134.47	1,292.00	1,668.75	1,592.17	76.58	21.791	
12,900.00	12,635.39	12,658.28	12,654.86	43.12	47.79	-132.922	-139.31	1,302.06	1,670.62	1,593.73	76.89	21.728	
12,950.00	12,641.87	12,663.03	12,659.59	43.19	48.59	-132.009	-142.39	1,308.62	1,669.89	1,592.99	76.90	21.714	
12,999.47	12,644.00	12,667.07	12,663.59	43.23	49.00	-131.934	-146.40	1,308.78	1,668.77	1,591.28	77.49	21.536	
13,000.00	12,644.00	12,667.84	12,664.36	43.24	49.00	-131.934	-146.17	1,308.78	1,668.76	1,591.26	77.50	21.534	
13,100.00	12,644.00	12,672.52	12,669.04	43.31	49.60	-131.911	-147.83	1,307.09	1,665.97	1,588.96	79.00	21.087	
13,200.00	12,644.00	12,677.42	12,673.94	43.39	50.10	-131.944	-148.72	1,306.26	1,664.18	1,587.17	80.66	20.633	
13,300.00	12,644.00	12,682.32	12,678.84	43.50	50.67	-131.969	-151.32	1,305.80	1,662.86	1,585.83	82.33	20.198	
13,379.73	12,644.00	12,687.22	12,683.74	43.60	51.09	-131.988	-154.30	1,306.00	1,662.47	1,585.44	83.72	19.857	
13,400.00	12,644.00	12,692.12	12,688.64	43.63	51.19	-131.993	-156.30	1,306.13	1,662.50	1,585.47	84.08	19.772	
13,500.00	12,644.00	12,697.02	12,693.54	43.78	51.73	-132.028	-160.27	1,307.66	1,663.69	1,586.66	85.87	19.375	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 514H - OH / 68224 - Suveys (H&P 474)													Offset Site Error:	0.00 usft			
Survey Program:		176-MWD+H2GM		Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance	Warning	Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
13,600.00	12,644.00	14,402.26	12,991.81	43.96	52.13	-102.056	-1,763.47	1,309.80	1,666.76	1,579.05	87.72	19.002					
13,700.00	12,644.00	14,600.70	12,990.47	44.18	53.61	-101.982	-1,961.73	1,315.72	1,669.17	1,579.69	89.48	18.653					
13,800.00	12,644.00	14,698.90	12,986.42	44.44	54.38	-101.853	-2,059.84	1,315.57	1,667.23	1,575.82	91.41	18.238					
13,900.00	12,644.00	14,776.58	12,984.30	44.74	55.01	-101.785	-2,137.49	1,315.97	1,666.25	1,572.88	93.37	17.846					
13,915.70	12,644.00	14,788.29	12,984.08	44.80	55.11	-101.777	-2,149.20	1,316.12	1,666.23	1,572.55	93.68	17.787					
14,000.00	12,644.00	14,865.29	12,982.88	45.11	55.75	-101.732	-2,226.18	1,317.45	1,666.58	1,571.23	95.35	17.478					
14,100.00	12,644.00	14,966.66	12,980.77	45.54	56.61	-101.656	-2,327.51	1,319.23	1,666.93	1,569.54	97.39	17.116					
14,200.00	12,644.00	15,065.55	12,979.95	46.05	57.48	-101.624	-2,426.38	1,320.75	1,667.32	1,567.87	99.46	16.764					
14,300.00	12,644.00	15,164.83	12,980.15	46.65	58.37	-101.628	-2,525.65	1,322.12	1,667.77	1,566.22	101.55	16.423					
14,400.00	12,644.00	15,252.73	12,980.86	47.33	59.17	-101.648	-2,613.54	1,323.47	1,668.50	1,564.86	103.64	16.100					
14,500.00	12,644.00	15,343.36	12,980.92	48.09	60.01	-101.640	-2,704.14	1,325.80	1,670.07	1,564.31	105.76	15.792					
14,600.00	12,644.00	15,437.12	12,979.91	48.94	60.91	-101.593	-2,797.85	1,328.73	1,671.98	1,564.06	107.92	15.493					
14,700.00	12,644.00	15,523.88	12,980.27	49.86	61.75	-101.590	-2,884.55	1,331.66	1,674.43	1,564.37	110.06	15.214					
14,800.00	12,644.00	15,615.21	12,980.84	50.85	62.65	-101.589	-2,975.81	1,335.53	1,677.75	1,565.51	112.25	14.947					
14,900.00	12,644.00	15,721.92	12,980.75	51.89	63.72	-101.561	-3,082.41	1,340.15	1,681.03	1,566.50	114.54	14.677					
15,000.00	12,644.00	15,823.04	12,979.64	52.99	64.76	-101.502	-3,183.44	1,344.35	1,683.93	1,567.10	116.83	14.413					
15,100.00	12,644.00	15,916.28	12,978.08	54.12	65.73	-101.428	-3,276.57	1,348.54	1,687.06	1,567.96	119.10	14.165					
15,200.00	12,644.00	16,011.45	12,976.29	55.29	66.73	-101.343	-3,371.61	1,353.25	1,690.60	1,569.20	121.40	13.925					
15,300.00	12,644.00	16,160.03	12,973.05	56.49	68.32	-101.206	-3,520.03	1,359.14	1,693.26	1,569.16	124.10	13.644					
15,400.00	12,644.00	16,294.78	12,972.07	57.72	69.78	-101.176	-3,654.76	1,359.97	1,692.70	1,566.00	126.69	13.361					
15,500.00	12,644.00	16,413.71	12,972.08	58.96	71.08	-101.191	-3,773.68	1,358.92	1,690.89	1,561.70	129.19	13.088					
15,600.00	12,644.00	16,491.77	12,974.62	60.22	71.95	-101.289	-3,851.69	1,357.70	1,689.06	1,557.60	131.46	12.849					
15,700.00	12,644.00	16,628.87	12,979.44	61.50	73.49	-101.474	-3,988.66	1,355.36	1,687.24	1,553.16	134.08	12.584					
15,800.00	12,644.00	16,731.37	12,980.51	62.79	74.64	-101.535	-4,091.12	1,352.57	1,683.83	1,547.31	136.52	12.334					
15,900.00	12,644.00	16,832.25	12,980.83	64.09	75.79	-101.570	-4,191.97	1,349.99	1,680.44	1,541.47	138.97	12.092					
16,000.00	12,644.00	16,971.80	12,977.61	65.40	77.39	-101.499	-4,331.41	1,345.87	1,676.28	1,534.62	141.66	11.833					
16,100.00	12,644.00	17,083.00	12,973.98	66.72	78.67	-101.427	-4,442.38	1,339.74	1,669.20	1,524.99	144.21	11.575					
16,200.00	12,644.00	17,144.76	12,972.76	68.04	79.39	-101.410	-4,504.05	1,336.71	1,663.34	1,516.84	146.51	11.353					
16,300.00	12,644.00	17,178.00	12,972.75	69.38	79.78	-101.417	-4,537.28	1,335.94	1,660.77	1,512.24	148.53	11.181					
16,350.45	12,644.00	17,224.59	12,972.89	70.05	80.33	-101.426	-4,583.87	1,335.84	1,660.25	1,510.49	149.77	11.086					
16,400.00	12,644.00	17,273.00	12,972.74	70.72	80.91	-101.416	-4,632.27	1,336.90	1,660.81	1,509.81	151.00	10.999					
16,500.00	12,644.00	17,311.99	12,972.65	72.07	81.37	-101.405	-4,671.22	1,338.50	1,663.15	1,510.23	152.92	10.876					
16,600.00	12,644.00	17,395.55	12,973.42	73.42	82.38	-101.404	-4,754.64	1,343.34	1,667.96	1,512.70	155.26	10.743					
16,700.00	12,644.00	17,584.99	12,974.31	74.77	84.67	-101.415	-4,943.99	1,347.86	1,668.94	1,510.22	158.72	10.515					
16,800.00	12,644.00	17,689.63	12,974.66	76.13	85.94	-101.431	-5,048.63	1,348.26	1,668.45	1,507.14	161.31	10.343					
16,900.00	12,644.00	17,778.52	12,973.87	77.49	87.02	-101.411	-5,137.52	1,348.16	1,667.28	1,503.51	163.78	10.180					
16,909.75	12,644.00	17,784.08	12,973.80	77.63	87.09	-101.409	-5,143.07	1,348.22	1,667.27	1,503.28	163.99	10.167					
17,000.00	12,644.00	17,838.00	12,973.11	78.86	87.75	-101.380	-5,196.97	1,349.54	1,668.32	1,502.38	165.94	10.054					
17,100.00	12,644.00	17,895.96	12,973.20	80.23	88.47	-101.369	-5,254.87	1,352.20	1,671.83	1,503.82	168.01	9.951					
17,200.00	12,644.00	18,023.90	12,977.45	81.60	90.07	-101.475	-5,382.56	1,358.86	1,676.92	1,506.00	170.93	9.811					
17,300.00	12,644.00	18,142.21	12,982.05	82.98	91.55	-101.616	-5,500.74	1,361.78	1,679.14	1,505.44	173.70	9.667					
17,400.00	12,644.00	18,229.69	12,984.63	84.36	92.65	-101.692	-5,588.14	1,364.17	1,681.46	1,505.34	176.13	9.547					
17,500.00	12,644.00	18,342.22	12,987.68	85.74	94.07	-101.776	-5,700.58	1,367.80	1,684.28	1,505.42	178.86	9.417					
17,600.00	12,644.00	18,482.22	12,988.95	87.12	95.84	-101.818	-5,840.56	1,369.16	1,684.25	1,502.36	181.89	9.260					
17,700.00	12,644.00	18,592.08	12,988.95	88.51	97.23	-101.824	-5,950.42	1,369.43	1,683.55	1,498.95	184.60	9.120					
17,800.00	12,644.00	18,701.63	12,988.55	89.89	98.61	-101.819	-6,059.97	1,369.24	1,682.37	1,495.07	187.31	8.982					
17,900.00	12,644.00	18,817.15	12,988.18	91.28	100.08	-101.830	-6,175.46	1,367.08	1,679.40	1,489.34	190.06	8.836					
18,000.00	12,644.00	18,878.00	12,988.43	92.67	100.86	-101.844	-6,236.31	1,366.80	1,678.08	1,485.76	192.32	8.726					
18,100.00	12,644.00	19,038.73	12,986.35	94.07	102.92	-101.796	-6,397.01	1,365.28	1,675.86	1,480.35	195.51	8.572					
18,200.00	12,644.00	19,148.71	12,981.88	95.46	104.33	-101.673	-6,506.86	1,362.47	1,671.57	1,473.31	198.26	8.431					
18,300.00	12,644.00	19,238.13	12,979.10	96.85	105.48	-101.602	-6,596.20	1,360.13	1,667.44	1,466.57	200.86	8.301					
18,400.00	12,644.00	19,316.66	12,978.47	98.25	106.49	-101.597	-6,674.71	1,358.45	1,664.25	1,460.91	203.34	8.184					

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 514H - OH / 68224 - Suveys (H&P 474)													Offset Site Error: 0.00 usft
Survey Program: 176-MWD+HDGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
18,500.00	12,644.00	19,397.55	12,978.06	99.65	107.54	-101.594	-6,755.59	1,357.80	1,662.40	1,456.57	205.82	8.077	
18,600.00	12,644.00	19,488.08	12,977.91	101.05	108.71	-101.594	-6,846.12	1,357.83	1,661.44	1,453.05	208.39	7.973	
18,700.00	12,644.00	19,580.11	12,979.87	102.45	109.92	-101.668	-6,938.13	1,357.72	1,660.81	1,449.87	210.94	7.873	
18,800.00	12,644.00	19,690.99	12,982.72	103.85	111.37	-101.769	-7,048.97	1,358.01	1,660.69	1,447.00	213.69	7.771	
18,900.00	12,644.00	19,778.58	12,982.92	105.25	112.52	-101.784	-7,136.56	1,357.79	1,659.62	1,443.39	216.23	7.675	
18,909.38	12,644.00	19,784.72	12,982.88	105.38	112.60	-101.782	-7,142.70	1,357.85	1,659.61	1,443.17	216.44	7.668	
19,000.00	12,644.00	19,850.80	12,982.09	106.65	113.47	-101.750	-7,208.76	1,359.28	1,660.40	1,441.82	218.58	7.596	
19,100.00	12,644.00	19,939.96	12,981.50	108.06	114.64	-101.717	-7,297.88	1,361.94	1,662.24	1,441.12	221.13	7.517	
19,200.00	12,644.00	20,038.63	12,980.68	109.46	115.95	-101.673	-7,396.48	1,365.34	1,664.50	1,440.69	223.81	7.437	
19,300.00	12,644.00	20,145.46	12,979.04	110.87	117.37	-101.601	-7,503.25	1,368.81	1,666.42	1,439.79	226.63	7.353	
19,400.00	12,644.00	20,254.97	12,976.42	112.28	118.83	-101.496	-7,612.66	1,372.28	1,668.11	1,438.61	229.50	7.268	
19,500.00	12,644.00	20,361.31	12,975.20	113.68	120.24	-101.446	-7,718.97	1,374.50	1,668.98	1,436.67	232.31	7.184	
19,600.00	12,644.00	20,462.84	12,973.82	115.09	121.59	-101.392	-7,820.47	1,376.63	1,669.82	1,434.77	235.05	7.104	
19,700.00	12,644.00	20,601.43	12,969.71	116.50	123.44	-101.251	-7,958.99	1,378.42	1,669.61	1,431.34	238.27	7.007	
19,800.00	12,644.00	20,718.35	12,966.02	117.91	125.00	-101.140	-8,075.84	1,377.58	1,667.30	1,426.12	241.18	6.913	
19,900.00	12,644.00	20,815.21	12,963.29	119.32	126.30	-101.060	-8,172.66	1,376.60	1,664.82	1,420.92	243.90	6.826	
20,000.00	12,644.00	20,913.24	12,961.16	120.73	127.60	-101.000	-8,270.66	1,375.68	1,662.54	1,415.92	246.62	6.741	
20,042.21	12,644.00	20,918.00	12,961.06	121.33	127.67	-100.998	-8,275.42	1,375.64	1,662.01	1,414.65	247.36	6.719	
20,100.00	12,644.00	20,918.00	12,961.06	122.15	127.67	-100.998	-8,275.42	1,375.64	1,663.01	1,414.93	248.08	6.703 SF	
20,200.00	12,644.00	20,918.00	12,961.06	123.56	127.67	-100.998	-8,275.42	1,375.64	1,669.48	1,420.76	248.73	6.712	
20,300.00	12,644.00	20,918.00	12,961.06	124.97	127.67	-100.998	-8,275.42	1,375.64	1,681.88	1,433.28	248.60	6.765	
20,400.00	12,644.00	20,918.00	12,961.06	126.38	127.67	-100.998	-8,275.42	1,375.64	1,700.09	1,452.34	247.75	6.862	
20,500.00	12,644.00	20,918.00	12,961.06	127.80	127.67	-100.998	-8,275.42	1,375.64	1,723.91	1,477.69	246.22	7.002	
20,600.00	12,644.00	20,918.00	12,961.06	129.21	127.67	-100.998	-8,275.42	1,375.64	1,753.11	1,509.03	244.09	7.182	
20,700.00	12,644.00	20,918.00	12,961.06	130.63	127.67	-100.998	-8,275.42	1,375.64	1,787.45	1,546.01	241.44	7.403	
20,800.00	12,644.00	20,918.00	12,961.06	132.04	127.67	-100.998	-8,275.42	1,375.64	1,826.61	1,588.26	238.36	7.663	
20,900.00	12,644.00	20,918.00	12,961.06	133.46	127.67	-100.998	-8,275.42	1,375.64	1,870.32	1,635.38	234.93	7.961	
21,000.00	12,644.00	20,918.00	12,961.06	134.88	127.67	-100.998	-8,275.42	1,375.64	1,918.24	1,686.99	231.25	8.295	
21,100.00	12,644.00	20,918.00	12,961.06	136.29	127.67	-100.998	-8,275.42	1,375.64	1,970.07	1,742.69	227.39	8.664	
21,200.00	12,644.00	20,918.00	12,961.06	137.71	127.67	-100.998	-8,275.42	1,375.64	2,025.52	1,802.12	223.40	9.067	
21,300.00	12,644.00	20,918.00	12,961.06	139.13	127.67	-100.998	-8,275.42	1,375.64	2,084.30	1,864.93	219.37	9.501	
21,400.00	12,644.00	20,918.00	12,961.06	140.54	127.67	-100.998	-8,275.42	1,375.64	2,146.13	1,930.81	215.32	9.967	
21,500.00	12,644.00	20,918.00	12,961.06	141.96	127.67	-100.998	-8,275.42	1,375.64	2,210.75	1,999.44	211.31	10.462	
21,600.00	12,644.00	20,918.00	12,961.06	143.38	127.67	-100.998	-8,275.42	1,375.64	2,277.93	2,070.57	207.37	10.985	
21,700.00	12,644.00	20,918.00	12,961.06	144.80	127.67	-100.998	-8,275.42	1,375.64	2,347.45	2,143.94	203.51	11.535	
21,800.00	12,644.00	20,918.00	12,961.06	146.22	127.67	-100.998	-8,275.42	1,375.64	2,419.11	2,219.35	199.76	12.110	
21,900.00	12,644.00	20,918.00	12,961.06	147.64	127.67	-100.998	-8,275.42	1,375.64	2,492.72	2,296.58	196.14	12.709	
22,000.00	12,644.00	20,918.00	12,961.06	149.06	127.67	-100.998	-8,275.42	1,375.64	2,568.11	2,375.47	192.65	13.331	
22,100.00	12,644.00	20,918.00	12,961.06	150.48	127.67	-100.998	-8,275.42	1,375.64	2,645.14	2,455.85	189.29	13.974	
22,199.47	12,644.00	20,918.00	12,961.06	151.89	127.67	-100.998	-8,275.42	1,375.64	2,723.24	2,537.15	186.09	14.634	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 412H - OH - Plan 1 08-31-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	1.00	1.00	1.00	-90.472	-10.14	-1,230.11	1,230.15				
100.00	100.00	99.00	100.00	1.08	1.08	-90.472	-10.14	-1,230.11	1,230.15	1,227.99	2.17	567.758	
200.00	200.00	199.00	200.00	1.60	1.59	-90.472	-10.14	-1,230.11	1,230.15	1,226.96	3.19	385.535	
300.00	300.00	299.00	300.00	2.01	2.01	-90.472	-10.14	-1,230.11	1,230.15	1,226.14	4.01	306.397	
400.00	400.00	399.00	400.00	2.35	2.35	-90.472	-10.14	-1,230.11	1,230.15	1,225.45	4.70	261.640	
500.00	500.00	499.00	500.00	2.65	2.65	-90.472	-10.14	-1,230.11	1,230.15	1,224.85	5.31	231.879	
600.00	600.00	599.00	600.00	2.93	2.92	-90.472	-10.14	-1,230.11	1,230.15	1,224.30	5.85	210.240	
700.00	700.00	699.00	700.00	3.18	3.18	-90.472	-10.14	-1,230.11	1,230.15	1,223.80	6.35	193.585	
800.00	800.00	799.00	800.00	3.41	3.41	-90.472	-10.14	-1,230.11	1,230.15	1,223.33	6.82	180.246	
900.00	900.00	899.00	900.00	3.64	3.63	-90.472	-10.14	-1,230.11	1,230.15	1,222.88	7.27	169.246	
1,000.00	1,000.00	999.00	1,000.00	3.85	3.84	-90.472	-10.14	-1,230.11	1,230.15	1,222.46	7.69	159.971	
1,100.00	1,100.00	1,099.00	1,100.00	4.05	4.05	-90.472	-10.14	-1,230.11	1,230.15	1,222.06	8.09	152.008	
1,200.00	1,200.00	1,199.00	1,200.00	4.24	4.24	-90.472	-10.14	-1,230.11	1,230.15	1,221.67	8.48	145.074	
1,300.00	1,300.00	1,299.00	1,300.00	4.43	4.43	-90.472	-10.14	-1,230.11	1,230.15	1,221.30	8.85	138.962	
1,400.00	1,400.00	1,399.00	1,400.00	4.61	4.61	-90.472	-10.14	-1,230.11	1,230.15	1,220.94	9.21	133.521	
1,500.00	1,500.00	1,499.00	1,500.00	4.78	4.78	-90.472	-10.14	-1,230.11	1,230.15	1,220.59	9.56	128.635 CC	
1,600.00	1,599.98	1,570.40	1,571.40	4.98	4.96	63.579	-10.43	-1,230.93	1,230.53	1,220.65	9.88	124.559	
1,700.00	1,699.84	1,646.18	1,647.12	5.60	5.08	63.684	-11.37	-1,233.58	1,231.66	1,221.44	10.23	120.452	
1,718.18	1,717.96	1,664.33	1,665.25	5.62	5.10	63.723	-11.64	-1,234.36	1,231.86	1,221.61	10.25	120.199	
1,800.00	1,799.55	1,746.03	1,746.87	5.72	5.22	63.926	-12.88	-1,237.85	1,232.61	1,222.18	10.43	118.126	
1,900.00	1,899.26	1,845.89	1,846.62	5.89	5.39	64.173	-14.38	-1,242.12	1,233.56	1,222.82	10.74	114.872	
2,000.00	1,998.97	1,945.74	1,946.37	6.09	5.59	64.420	-15.89	-1,246.38	1,234.52	1,223.45	11.07	111.530	
2,100.00	2,098.68	2,045.59	2,046.12	6.30	5.79	64.666	-17.40	-1,250.65	1,235.51	1,224.10	11.41	108.247	
2,200.00	2,198.39	2,145.45	2,145.87	6.53	6.01	64.912	-18.91	-1,254.92	1,236.53	1,224.76	11.77	105.049	
2,300.00	2,298.10	2,245.30	2,245.62	6.77	6.24	65.158	-20.42	-1,259.19	1,237.56	1,225.42	12.14	101.949	
2,400.00	2,397.81	2,345.15	2,345.37	7.02	6.48	65.404	-21.92	-1,263.46	1,238.62	1,226.10	12.52	98.959	
2,500.00	2,497.52	2,445.01	2,445.12	7.28	6.72	65.648	-23.43	-1,267.72	1,239.70	1,226.80	12.90	96.083	
2,600.00	2,597.23	2,544.86	2,544.87	7.55	6.98	65.893	-24.94	-1,271.99	1,240.81	1,227.51	13.30	93.326	
2,700.00	2,696.94	2,644.71	2,644.63	7.83	7.24	66.137	-26.45	-1,276.26	1,241.93	1,228.24	13.69	90.687	
2,800.00	2,796.65	2,744.57	2,744.38	8.12	7.50	66.380	-27.96	-1,280.53	1,243.08	1,228.98	14.10	88.166	
2,900.00	2,896.36	2,844.42	2,844.13	8.42	7.77	66.624	-29.47	-1,284.79	1,244.25	1,229.75	14.51	85.760	
3,000.00	2,996.07	2,944.27	2,943.88	8.72	8.04	66.866	-30.97	-1,289.06	1,245.45	1,230.53	14.92	83.465	
3,100.00	3,095.78	3,044.13	3,043.63	9.03	8.32	67.108	-32.48	-1,293.33	1,246.67	1,231.33	15.34	81.278	
3,200.00	3,195.49	3,143.98	3,143.38	9.34	8.61	67.350	-33.99	-1,297.60	1,247.90	1,232.15	15.76	79.193	
3,300.00	3,295.20	3,243.83	3,243.13	9.66	8.89	67.591	-35.50	-1,301.86	1,249.17	1,232.99	16.18	77.207	
3,400.00	3,394.91	3,343.69	3,342.88	9.98	9.18	67.832	-37.01	-1,306.13	1,250.45	1,233.85	16.60	75.315	
3,500.00	3,494.62	3,443.54	3,442.63	10.30	9.47	68.072	-38.52	-1,310.40	1,251.75	1,234.73	17.03	73.512	
3,600.00	3,594.33	3,543.39	3,542.38	10.63	9.77	68.312	-40.02	-1,314.67	1,253.08	1,235.63	17.45	71.793	
3,700.00	3,694.04	3,643.25	3,642.13	10.96	10.06	68.551	-41.53	-1,318.93	1,254.43	1,236.55	17.88	70.154	
3,800.00	3,793.75	3,743.10	3,741.88	11.29	10.36	68.790	-43.04	-1,323.20	1,255.80	1,237.49	18.31	68.590	
3,900.00	3,893.47	3,842.95	3,841.63	11.63	10.66	69.028	-44.55	-1,327.47	1,257.20	1,238.46	18.74	67.098	
4,000.00	3,993.18	3,942.81	3,941.39	11.97	10.97	69.266	-46.06	-1,331.74	1,258.61	1,239.45	19.16	65.673	
4,100.00	4,092.89	4,042.66	4,041.14	12.31	11.27	69.503	-47.57	-1,336.00	1,260.05	1,240.45	19.59	64.311	
4,200.00	4,192.60	4,142.51	4,140.89	12.65	11.58	69.740	-49.07	-1,340.27	1,261.50	1,241.48	20.02	63.010	
4,300.00	4,292.31	4,242.37	4,240.64	13.00	11.88	69.976	-50.58	-1,344.54	1,262.98	1,242.54	20.45	61.766	
4,400.00	4,392.02	4,342.22	4,340.39	13.34	12.19	70.211	-52.09	-1,348.81	1,264.49	1,243.61	20.87	60.575	
4,500.00	4,491.73	4,442.07	4,440.14	13.69	12.50	70.446	-53.60	-1,353.07	1,266.01	1,244.71	21.30	59.435	
4,600.00	4,591.44	4,541.93	4,539.89	14.04	12.81	70.681	-55.11	-1,357.34	1,267.55	1,245.83	21.73	58.343	
4,700.00	4,691.15	4,641.78	4,639.64	14.39	13.13	70.914	-56.61	-1,361.61	1,269.12	1,246.97	22.15	57.296	
4,800.00	4,790.86	4,741.63	4,739.39	14.74	13.44	71.148	-58.12	-1,365.88	1,270.70	1,248.13	22.57	56.292	
4,900.00	4,890.57	4,841.49	4,839.14	15.10	13.75	71.380	-59.63	-1,370.15	1,272.31	1,249.31	23.00	55.328	
5,000.00	4,990.28	4,941.34	4,938.89	15.45	14.07	71.612	-61.14	-1,374.41	1,273.94	1,250.52	23.42	54.403	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 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
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance				Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,100.00	5,089.99	5,041.19	5,038.64	15.81	14.38	71.844	-62.65	-1,378.68	1,275.59	1,251.75	23.84	53.514			
5,200.00	5,189.70	5,141.05	5,138.39	16.16	14.70	72.074	-64.16	-1,382.95	1,277.26	1,253.00	24.26	52.659			
5,300.00	5,289.41	5,240.90	5,238.15	16.52	15.02	72.305	-65.66	-1,387.22	1,278.95	1,254.27	24.67	51.838			
5,400.00	5,389.12	5,340.76	5,337.90	16.88	15.33	72.534	-67.17	-1,391.48	1,280.66	1,255.57	25.09	51.047			
5,500.00	5,488.83	5,440.61	5,437.65	17.24	15.65	72.763	-68.68	-1,395.75	1,282.39	1,256.89	25.50	50.286			
5,600.00	5,588.54	5,540.46	5,537.40	17.59	15.97	72.992	-70.19	-1,400.02	1,284.14	1,258.23	25.91	49.552			
5,700.00	5,688.25	5,640.32	5,637.15	17.95	16.29	73.220	-71.70	-1,404.29	1,285.91	1,259.59	26.33	48.846			
5,800.00	5,787.96	5,740.17	5,736.90	18.32	16.61	73.447	-73.21	-1,408.55	1,287.71	1,260.97	26.74	48.165			
5,900.00	5,887.67	5,840.02	5,836.65	18.68	16.93	73.673	-74.71	-1,412.82	1,289.52	1,262.38	27.14	47.507			
6,000.00	5,987.38	5,939.88	5,936.40	19.04	17.25	73.899	-76.22	-1,417.09	1,291.35	1,263.80	27.55	46.873			
6,100.00	6,087.09	6,039.73	6,036.15	19.40	17.57	74.124	-77.73	-1,421.36	1,293.21	1,265.25	27.95	46.261			
6,200.00	6,186.80	6,139.58	6,135.90	19.76	17.89	74.349	-79.24	-1,425.62	1,295.08	1,266.72	28.36	45.669			
6,300.00	6,286.51	6,239.44	6,235.65	20.13	18.21	74.573	-80.75	-1,429.89	1,296.97	1,268.21	28.76	45.097			
6,400.00	6,386.22	6,339.29	6,335.40	20.49	18.54	74.796	-82.26	-1,434.16	1,298.89	1,269.73	29.16	44.544			
6,500.00	6,485.93	6,439.14	6,435.15	20.86	18.86	75.019	-83.76	-1,438.43	1,300.82	1,271.26	29.56	44.010			
6,600.00	6,585.64	6,539.00	6,534.91	21.22	19.18	75.241	-85.27	-1,442.69	1,302.77	1,272.82	29.95	43.493			
6,700.00	6,685.35	6,638.85	6,634.66	21.59	19.50	75.462	-86.78	-1,446.96	1,304.74	1,274.39	30.35	42.992			
6,800.00	6,785.06	6,738.70	6,734.41	21.95	19.83	75.682	-88.29	-1,451.23	1,306.73	1,275.99	30.74	42.507			
6,900.00	6,884.77	6,838.56	6,834.16	22.32	20.15	75.902	-89.80	-1,455.50	1,308.74	1,277.61	31.13	42.037			
7,000.00	6,984.48	6,938.41	6,933.91	22.68	20.48	76.122	-91.30	-1,459.77	1,310.77	1,279.25	31.52	41.582			
7,100.00	7,084.19	7,038.26	7,033.66	23.05	20.80	76.340	-92.81	-1,464.03	1,312.82	1,280.91	31.91	41.141			
7,200.00	7,183.90	7,138.12	7,133.41	23.42	21.12	76.558	-94.32	-1,468.30	1,314.89	1,282.59	32.30	40.712			
7,300.00	7,283.61	7,237.97	7,233.16	23.78	21.45	76.775	-95.83	-1,472.57	1,316.98	1,284.30	32.68	40.297			
7,400.00	7,383.32	7,337.82	7,332.91	24.15	21.77	76.992	-97.34	-1,476.84	1,319.08	1,286.02	33.06	39.894			
7,500.00	7,483.03	7,437.68	7,432.66	24.52	22.10	77.208	-98.85	-1,481.10	1,321.21	1,287.76	33.45	39.503			
7,600.00	7,582.74	7,537.53	7,532.41	24.89	22.42	77.423	-100.35	-1,485.37	1,323.35	1,289.53	33.83	39.123			
7,700.00	7,682.45	7,637.38	7,632.16	25.25	22.75	77.637	-101.86	-1,489.64	1,325.51	1,291.31	34.20	38.754			
7,800.00	7,782.16	7,737.24	7,731.91	25.62	23.08	77.851	-103.37	-1,493.91	1,327.69	1,293.11	34.58	38.395			
7,900.00	7,881.87	7,837.09	7,831.67	25.99	23.40	78.064	-104.88	-1,498.17	1,329.89	1,294.94	34.95	38.046			
8,000.00	7,981.58	7,936.94	7,931.42	26.36	23.73	78.277	-106.39	-1,502.44	1,332.11	1,296.78	35.33	37.707			
8,100.00	8,081.29	8,036.80	8,031.17	26.73	24.05	78.488	-107.90	-1,506.71	1,334.35	1,298.65	35.70	37.377			
8,200.00	8,181.00	8,136.65	8,130.92	27.10	24.38	78.699	-109.40	-1,510.98	1,336.60	1,300.53	36.07	37.056			
8,300.00	8,280.71	8,236.50	8,230.67	27.47	24.71	78.909	-110.91	-1,515.24	1,338.87	1,302.44	36.44	36.744			
8,400.00	8,380.42	8,336.36	8,330.42	27.84	25.03	79.119	-112.42	-1,519.51	1,341.16	1,304.36	36.80	36.440			
8,500.00	8,480.13	8,436.21	8,430.17	28.21	25.36	79.328	-113.93	-1,523.78	1,343.47	1,306.30	37.17	36.144			
8,600.00	8,579.84	8,536.06	8,529.92	28.58	25.69	79.536	-115.44	-1,528.05	1,345.80	1,308.26	37.53	35.855			
8,700.00	8,679.55	8,635.92	8,629.67	28.95	26.02	79.743	-116.95	-1,532.31	1,348.14	1,310.24	37.90	35.574			
8,800.00	8,779.26	8,735.77	8,729.42	29.32	26.34	79.950	-118.45	-1,536.58	1,350.50	1,312.24	38.26	35.300			
8,900.00	8,878.97	8,835.62	8,829.17	29.69	26.67	80.156	-119.96	-1,540.85	1,352.88	1,314.26	38.62	35.033			
9,000.00	8,978.68	8,935.48	8,928.92	30.06	27.00	80.361	-121.47	-1,545.12	1,355.28	1,316.30	38.98	34.773			
9,100.00	9,078.39	9,035.33	9,028.67	30.43	27.33	80.565	-122.98	-1,549.38	1,357.69	1,318.36	39.33	34.519			
9,200.00	9,178.10	9,135.18	9,128.43	30.80	27.65	80.769	-124.49	-1,553.65	1,360.12	1,320.43	39.69	34.271			
9,300.00	9,277.81	9,235.04	9,228.18	31.17	27.98	80.972	-125.99	-1,557.92	1,362.57	1,322.53	40.04	34.029			
9,400.00	9,377.52	9,334.89	9,327.93	31.54	28.31	81.174	-127.50	-1,562.19	1,365.03	1,324.64	40.39	33.793			
9,500.00	9,477.23	9,434.74	9,427.68	31.91	28.64	81.376	-129.01	-1,566.46	1,367.52	1,326.77	40.75	33.562			
9,600.00	9,576.94	9,534.60	9,527.43	32.29	28.97	81.577	-130.52	-1,570.72	1,370.01	1,328.92	41.10	33.337			
9,700.00	9,676.65	9,634.45	9,627.18	32.66	29.29	81.777	-132.03	-1,574.99	1,372.53	1,331.09	41.44	33.117			
9,800.00	9,776.36	9,734.31	9,726.93	33.03	29.62	81.976	-133.54	-1,579.26	1,375.06	1,333.27	41.79	32.903			
9,900.00	9,876.07	9,834.16	9,826.68	33.40	29.95	82.175	-135.04	-1,583.53	1,377.61	1,335.47	42.14	32.693			
10,000.00	9,975.78	9,934.01	9,926.43	33.77	30.28	82.372	-136.55	-1,587.79	1,380.18	1,337.69	42.48	32.487			
10,100.00	10,075.49	10,033.87	10,026.18	34.14	30.61	82.570	-138.06	-1,592.06	1,382.76	1,339.93	42.83	32.287			
10,200.00	10,175.20	10,133.72	10,125.93	34.52	30.94	82.766	-139.57	-1,596.33	1,385.36	1,342.19	43.17	32.090			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 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	10,274.91	10,233.57	10,225.68	34.89	31.26	82.962	-141.08	-1,600.60	1,387.97	1,344.46	43.51	31.898			
10,400.00	10,374.62	10,333.43	10,325.43	35.26	31.59	83.157	-142.59	-1,604.86	1,390.60	1,346.75	43.85	31.711			
10,500.00	10,474.33	10,433.28	10,425.19	35.63	31.92	83.351	-144.09	-1,609.13	1,393.25	1,349.06	44.19	31.527			
10,600.00	10,574.04	10,533.13	10,524.94	36.01	32.25	83.544	-145.60	-1,613.40	1,395.91	1,351.38	44.53	31.347			
10,700.00	10,673.75	10,632.99	10,624.69	36.38	32.58	83.737	-147.11	-1,617.67	1,398.59	1,353.72	44.87	31.171			
10,800.00	10,773.46	10,732.84	10,724.44	36.75	32.91	83.929	-148.62	-1,621.93	1,401.28	1,356.08	45.21	30.998			
10,900.00	10,873.18	10,832.69	10,824.19	37.12	33.24	84.120	-150.13	-1,626.20	1,403.99	1,358.45	45.54	30.830			
11,000.00	10,972.89	10,932.55	10,923.94	37.50	33.57	84.311	-151.64	-1,630.47	1,406.72	1,360.84	45.88	30.664			
11,100.00	11,072.60	11,032.40	11,023.69	37.87	33.90	84.501	-153.14	-1,634.74	1,409.46	1,363.25	46.21	30.502			
11,200.00	11,172.31	11,132.25	11,123.44	38.24	34.23	84.690	-154.65	-1,639.00	1,412.22	1,365.68	46.54	30.343			
11,300.00	11,272.02	11,232.11	11,223.19	38.62	34.56	84.878	-156.16	-1,643.27	1,414.99	1,368.12	46.87	30.187			
11,381.30	11,353.08	11,313.29	11,304.29	38.92	34.82	85.030	-157.39	-1,646.74	1,417.25	1,370.12	47.14	30.068			
11,400.00	11,371.73	11,331.96	11,322.94	38.98	34.89	85.074	-157.67	-1,647.54	1,417.78	1,370.59	47.19	30.043			
11,500.00	11,471.59	11,431.89	11,422.77	39.34	35.21	85.224	-159.18	-1,651.81	1,420.78	1,373.26	47.53	29.894			
11,599.47	11,571.04	11,583.84	11,574.66	39.49	35.54	-68.752	-160.34	-1,655.10	1,422.45	1,374.64	47.81	29.752			
11,600.00	11,571.57	11,584.69	11,575.51	39.49	35.55	-68.752	-160.34	-1,655.10	1,422.45	1,374.64	47.81	29.752			
11,602.79	11,574.36	11,589.16	11,579.98	39.49	35.55	-68.752	-160.33	-1,655.08	1,422.44	1,374.63	47.81	29.749			
11,700.00	11,671.57	11,680.75	11,671.57	39.52	35.54	-68.753	-160.35	-1,655.12	1,422.46	1,374.63	47.83	29.739			
11,800.00	11,771.57	11,780.75	11,771.57	39.52	35.56	-68.753	-160.35	-1,655.12	1,422.46	1,374.60	47.86	29.720			
11,900.00	11,871.57	11,880.75	11,871.57	39.53	35.58	-68.753	-160.35	-1,655.12	1,422.46	1,374.57	47.89	29.701			
12,000.00	11,971.57	11,980.75	11,971.57	39.54	35.59	-68.753	-160.35	-1,655.12	1,422.46	1,374.54	47.92	29.681			
12,099.47	12,071.04	12,151.42	12,142.01	39.54	35.69	-68.947	-165.54	-1,655.07	1,422.31	1,374.37	47.94	29.668			
12,100.00	12,071.57	12,158.11	12,148.63	39.55	35.70	111.574	-166.48	-1,655.06	1,422.28	1,374.33	47.95	29.663			
12,150.00	12,121.50	12,607.57	12,524.64	39.65	36.64	104.194	-391.16	-1,652.81	1,412.96	1,361.37	51.59	27.387			
12,200.00	12,171.05	12,789.27	12,608.41	39.91	37.08	99.457	-551.53	-1,651.21	1,398.77	1,344.04	54.73	25.558			
12,250.00	12,219.84	12,883.93	12,630.90	40.20	37.32	97.311	-643.36	-1,650.30	1,384.59	1,327.91	56.68	24.429			
12,300.00	12,267.50	12,947.29	12,637.37	40.50	37.48	96.170	-706.35	-1,649.67	1,371.48	1,313.41	58.06	23.621			
12,350.00	12,313.66	12,983.87	12,638.00	40.80	37.57	95.921	-742.92	-1,649.30	1,359.79	1,300.95	58.83	23.112			
12,400.00	12,357.98	13,006.99	12,638.00	41.09	37.64	96.046	-766.04	-1,649.07	1,349.90	1,290.65	59.25	22.783			
12,450.00	12,400.11	13,033.88	12,638.00	41.38	37.72	95.892	-792.94	-1,648.80	1,341.78	1,282.07	59.71	22.471			
12,500.00	12,439.74	13,064.35	12,638.00	41.66	37.81	95.505	-823.40	-1,648.50	1,335.32	1,275.10	60.21	22.177			
12,550.00	12,476.56	13,098.15	12,638.00	41.92	37.91	94.933	-857.20	-1,648.16	1,330.34	1,269.58	60.75	21.898			
12,600.00	12,510.29	13,135.03	12,638.00	42.16	38.04	94.229	-894.08	-1,647.79	1,326.65	1,265.30	61.35	21.624			
12,650.00	12,540.68	13,174.72	12,638.00	42.39	38.19	93.446	-933.76	-1,647.40	1,324.06	1,262.07	61.99	21.360			
12,700.00	12,567.50	13,216.90	12,638.00	42.58	38.35	92.640	-975.94	-1,646.98	1,322.35	1,259.68	62.66	21.102			
12,750.00	12,590.54	13,261.25	12,638.00	42.76	38.53	91.859	-1,020.30	-1,646.53	1,321.30	1,257.92	63.38	20.847			
12,800.00	12,609.63	13,307.45	12,638.00	42.91	38.72	91.151	-1,066.49	-1,646.07	1,320.74	1,256.62	64.12	20.597			
12,850.00	12,624.61	13,355.14	12,638.00	43.03	38.94	90.556	-1,114.17	-1,645.60	1,320.49	1,255.59	64.90	20.348			
12,900.00	12,635.39	13,403.95	12,638.00	43.12	39.17	90.109	-1,162.98	-1,645.11	1,320.41	1,254.73	65.68	20.105			
12,950.00	12,641.87	13,453.51	12,638.00	43.19	39.42	89.831	-1,212.54	-1,644.61	1,320.40	1,253.92	66.47	19.864			
12,999.47	12,644.00	13,502.92	12,638.00	43.23	39.68	89.740	-1,261.95	-1,644.12	1,320.39	1,253.14	67.25	19.635			
13,000.00	12,644.00	13,503.45	12,638.00	43.24	39.68	89.740	-1,262.48	-1,644.12	1,320.39	1,253.13	67.26	19.632			
13,100.00	12,644.00	13,603.45	12,638.00	43.31	40.25	89.740	-1,362.47	-1,643.12	1,320.35	1,251.48	68.87	19.171			
13,200.00	12,644.00	13,703.45	12,638.00	43.39	40.86	89.740	-1,462.47	-1,642.12	1,320.32	1,249.75	70.57	18.709			
13,300.00	12,644.00	13,803.45	12,638.00	43.50	41.52	89.740	-1,562.46	-1,641.12	1,320.29	1,247.95	72.34	18.250			
13,400.00	12,644.00	13,903.45	12,638.00	43.63	42.22	89.740	-1,662.46	-1,640.12	1,320.26	1,246.08	74.18	17.797			
13,500.00	12,644.00	14,003.45	12,638.00	43.78	42.97	89.740	-1,762.45	-1,639.12	1,320.23	1,244.14	76.08	17.352			
13,600.00	12,644.00	14,103.45	12,638.00	43.96	43.76	89.740	-1,862.45	-1,638.13	1,320.19	1,242.15	78.05	16.916			
13,700.00	12,644.00	14,203.45	12,638.00	44.18	44.58	89.740	-1,962.44	-1,637.13	1,320.16	1,240.10	80.06	16.490			
13,800.00	12,644.00	14,303.45	12,638.00	44.44	45.44	89.740	-2,062.44	-1,636.13	1,320.13	1,238.01	82.12	16.075			
13,900.00	12,644.00	14,403.45	12,638.00	44.74	46.33	89.740	-2,162.43	-1,635.13	1,320.10	1,235.86	84.23	15.672			
14,000.00	12,644.00	14,503.45	12,638.00	45.11	47.26	89.740	-2,262.43	-1,634.13	1,320.07	1,233.68	86.39	15.281			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 412H - OH - Plan 1 08-31-22												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,100.00	12,644.00	14,603.45	12,638.00	45.54	48.21	89.740	-2,362.42	-1,633.14	1,320.03	1,231.45	88.58	14.902	
14,200.00	12,644.00	14,703.45	12,638.00	46.05	49.19	89.740	-2,462.42	-1,632.14	1,320.00	1,229.19	90.81	14.536	
14,300.00	12,644.00	14,803.45	12,638.00	46.65	50.20	89.740	-2,562.41	-1,631.14	1,319.97	1,226.90	93.07	14.182	
14,400.00	12,644.00	14,903.45	12,638.00	47.33	51.23	89.740	-2,662.41	-1,630.14	1,319.94	1,224.57	95.37	13.840	
14,500.00	12,644.00	15,003.45	12,638.00	48.09	52.28	89.740	-2,762.40	-1,629.14	1,319.91	1,222.21	97.70	13.510	
14,600.00	12,644.00	15,103.45	12,638.00	48.94	53.35	89.740	-2,862.40	-1,628.14	1,319.87	1,219.82	100.05	13.192	
14,700.00	12,644.00	15,203.45	12,638.00	49.86	54.44	89.740	-2,962.39	-1,627.15	1,319.84	1,217.41	102.43	12.885	
14,800.00	12,644.00	15,303.45	12,638.00	50.85	55.55	89.740	-3,062.39	-1,626.15	1,319.81	1,214.98	104.83	12.590	
14,900.00	12,644.00	15,403.45	12,638.00	51.89	56.68	89.740	-3,162.38	-1,625.15	1,319.78	1,212.52	107.26	12.304	
15,000.00	12,644.00	15,503.45	12,638.00	52.99	57.82	89.740	-3,262.38	-1,624.15	1,319.75	1,210.04	109.71	12.030	
15,100.00	12,644.00	15,603.45	12,638.00	54.12	58.97	89.740	-3,362.37	-1,623.15	1,319.71	1,207.54	112.17	11.765	
15,200.00	12,644.00	15,703.45	12,638.00	55.29	60.14	89.739	-3,462.37	-1,622.16	1,319.68	1,205.02	114.66	11.509	
15,300.00	12,644.00	15,803.45	12,638.00	56.49	61.32	89.739	-3,562.36	-1,621.16	1,319.65	1,202.49	117.16	11.263	
15,400.00	12,644.00	15,903.45	12,638.00	57.72	62.51	89.739	-3,662.36	-1,620.16	1,319.62	1,199.93	119.68	11.026	
15,500.00	12,644.00	16,003.45	12,638.00	58.96	63.71	89.739	-3,762.35	-1,619.16	1,319.58	1,197.37	122.22	10.797	
15,600.00	12,644.00	16,103.45	12,638.00	60.22	64.93	89.739	-3,862.35	-1,618.16	1,319.55	1,194.79	124.77	10.576	
15,700.00	12,644.00	16,203.45	12,638.00	61.50	66.15	89.739	-3,962.34	-1,617.16	1,319.52	1,192.19	127.33	10.363	
15,800.00	12,644.00	16,303.45	12,638.00	62.79	67.38	89.739	-4,062.34	-1,616.17	1,319.49	1,189.59	129.90	10.158	
15,900.00	12,644.00	16,403.45	12,638.00	64.09	68.62	89.739	-4,162.33	-1,615.17	1,319.46	1,186.97	132.49	9.959	
16,000.00	12,644.00	16,503.45	12,638.00	65.40	69.87	89.739	-4,262.33	-1,614.17	1,319.42	1,184.34	135.09	9.767	
16,100.00	12,644.00	16,603.45	12,638.00	66.72	71.12	89.739	-4,362.32	-1,613.17	1,319.39	1,181.69	137.70	9.582	
16,200.00	12,644.00	16,703.45	12,638.00	68.04	72.38	89.739	-4,462.32	-1,612.17	1,319.36	1,179.04	140.32	9.403	
16,300.00	12,644.00	16,803.45	12,638.00	69.38	73.65	89.739	-4,562.31	-1,611.17	1,319.33	1,176.38	142.95	9.230	
16,400.00	12,644.00	16,903.45	12,638.00	70.72	74.93	89.739	-4,662.31	-1,610.18	1,319.30	1,173.71	145.58	9.062	
16,500.00	12,644.00	17,003.45	12,638.00	72.07	76.21	89.739	-4,762.30	-1,609.18	1,319.26	1,171.03	148.23	8.900	
16,600.00	12,644.00	17,103.45	12,638.00	73.42	77.50	89.739	-4,862.30	-1,608.18	1,319.23	1,168.35	150.88	8.743	
16,700.00	12,644.00	17,203.45	12,638.00	74.77	78.79	89.739	-4,962.29	-1,607.18	1,319.20	1,165.65	153.55	8.592	
16,800.00	12,644.00	17,303.45	12,638.00	76.13	80.08	89.739	-5,062.29	-1,606.18	1,319.17	1,162.95	156.22	8.445	
16,900.00	12,644.00	17,403.45	12,638.00	77.49	81.39	89.739	-5,162.28	-1,605.19	1,319.14	1,160.24	158.89	8.302	
17,000.00	12,644.00	17,503.45	12,638.00	78.86	82.69	89.739	-5,262.28	-1,604.19	1,319.10	1,157.53	161.58	8.164	
17,100.00	12,644.00	17,603.45	12,638.00	80.23	84.00	89.739	-5,362.27	-1,603.19	1,319.07	1,154.81	164.27	8.030	
17,200.00	12,644.00	17,703.45	12,638.00	81.60	85.32	89.739	-5,462.27	-1,602.19	1,319.04	1,152.08	166.96	7.900	
17,300.00	12,644.00	17,803.45	12,638.00	82.98	86.64	89.739	-5,562.26	-1,601.19	1,319.01	1,149.35	169.66	7.774	
17,400.00	12,644.00	17,903.45	12,638.00	84.36	87.96	89.739	-5,662.26	-1,600.19	1,318.97	1,146.61	172.37	7.652	
17,500.00	12,644.00	18,003.45	12,638.00	85.74	89.29	89.739	-5,762.25	-1,599.20	1,318.94	1,143.86	175.08	7.533	
17,600.00	12,644.00	18,103.45	12,638.00	87.12	90.62	89.739	-5,862.25	-1,598.20	1,318.91	1,141.11	177.80	7.418	
17,700.00	12,644.00	18,203.45	12,638.00	88.51	91.95	89.739	-5,962.24	-1,597.20	1,318.88	1,138.36	180.52	7.306	
17,800.00	12,644.00	18,303.45	12,638.00	89.89	93.28	89.739	-6,062.24	-1,596.20	1,318.85	1,135.60	183.25	7.197	
17,900.00	12,644.00	18,403.45	12,638.00	91.28	94.62	89.739	-6,162.23	-1,595.20	1,318.81	1,132.84	185.98	7.091	
18,000.00	12,644.00	18,503.45	12,638.00	92.67	95.97	89.739	-6,262.23	-1,594.21	1,318.78	1,130.07	188.71	6.988	
18,100.00	12,644.00	18,603.45	12,638.00	94.07	97.31	89.739	-6,362.22	-1,593.21	1,318.75	1,127.30	191.45	6.888	
18,200.00	12,644.00	18,703.45	12,638.00	95.46	98.66	89.739	-6,462.22	-1,592.21	1,318.72	1,124.53	194.19	6.791	
18,300.00	12,644.00	18,803.45	12,638.00	96.85	100.01	89.739	-6,562.21	-1,591.21	1,318.69	1,121.75	196.94	6.696	
18,400.00	12,644.00	18,903.45	12,638.00	98.25	101.36	89.739	-6,662.21	-1,590.21	1,318.65	1,118.97	199.69	6.604	
18,500.00	12,644.00	19,003.45	12,638.00	99.65	102.71	89.739	-6,762.20	-1,589.21	1,318.62	1,116.18	202.44	6.514	
18,600.00	12,644.00	19,103.45	12,638.00	101.05	104.07	89.739	-6,862.20	-1,588.22	1,318.59	1,113.39	205.20	6.426	
18,700.00	12,644.00	19,203.45	12,638.00	102.45	105.43	89.739	-6,962.19	-1,587.22	1,318.56	1,110.60	207.96	6.341	
18,800.00	12,644.00	19,303.45	12,638.00	103.85	106.79	89.739	-7,062.19	-1,586.22	1,318.53	1,107.81	210.72	6.257	
18,900.00	12,644.00	19,403.45	12,638.00	105.25	108.15	89.739	-7,162.18	-1,585.22	1,318.49	1,105.01	213.48	6.176	
19,000.00	12,644.00	19,503.45	12,638.00	106.65	109.52	89.739	-7,262.18	-1,584.22	1,318.46	1,102.21	216.25	6.097	
19,100.00	12,644.00	19,603.45	12,638.00	108.06	110.88	89.739	-7,362.17	-1,583.22	1,318.43	1,099.41	219.02	6.020	
19,200.00	12,644.00	19,703.45	12,638.00	109.46	112.25	89.739	-7,462.17	-1,582.23	1,318.40	1,096.60	221.80	5.944	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 412H - OH - Plan 1 08-31-22												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
19,300.00	12,644.00	19,803.45	12,638.00	110.87	113.62	89.739	-7,562.16	-1,581.23	1,318.37	1,093.79	224.57	5.871	
19,400.00	12,644.00	19,903.45	12,638.00	112.28	114.99	89.739	-7,662.16	-1,580.23	1,318.33	1,090.98	227.35	5.799	
19,500.00	12,644.00	20,003.45	12,638.00	113.68	116.37	89.739	-7,762.15	-1,579.23	1,318.30	1,088.17	230.13	5.728	
19,600.00	12,644.00	20,103.45	12,638.00	115.09	117.74	89.739	-7,862.15	-1,578.23	1,318.27	1,085.35	232.91	5.660	
19,700.00	12,644.00	20,203.45	12,638.00	116.50	119.12	89.739	-7,962.14	-1,577.24	1,318.24	1,082.54	235.70	5.593	
19,800.00	12,644.00	20,303.45	12,638.00	117.91	120.49	89.739	-8,062.14	-1,576.24	1,318.20	1,079.72	238.49	5.527	
19,900.00	12,644.00	20,403.45	12,638.00	119.32	121.87	89.739	-8,162.13	-1,575.24	1,318.17	1,076.90	241.28	5.463	
20,000.00	12,644.00	20,503.45	12,638.00	120.73	123.25	89.739	-8,262.13	-1,574.24	1,318.14	1,074.07	244.07	5.401	
20,100.00	12,644.00	20,603.45	12,638.00	122.15	124.63	89.739	-8,362.12	-1,573.24	1,318.11	1,071.25	246.86	5.340	
20,200.00	12,644.00	20,703.45	12,638.00	123.56	126.02	89.739	-8,462.12	-1,572.24	1,318.08	1,068.42	249.65	5.280	
20,300.00	12,644.00	20,803.45	12,638.00	124.97	127.40	89.739	-8,562.11	-1,571.25	1,318.04	1,065.60	252.45	5.221	
20,400.00	12,644.00	20,903.45	12,638.00	126.38	128.79	89.739	-8,662.11	-1,570.25	1,318.01	1,062.77	255.25	5.164	
20,500.00	12,644.00	21,003.45	12,638.00	127.80	130.17	89.739	-8,762.10	-1,569.25	1,317.98	1,059.93	258.05	5.108	
20,600.00	12,644.00	21,103.45	12,638.00	129.21	131.56	89.739	-8,862.10	-1,568.25	1,317.95	1,057.10	260.85	5.053	
20,700.00	12,644.00	21,203.45	12,638.00	130.63	132.95	89.739	-8,962.09	-1,567.25	1,317.92	1,054.27	263.65	4.999	
20,800.00	12,644.00	21,303.45	12,638.00	132.04	134.34	89.739	-9,062.09	-1,566.26	1,317.88	1,051.43	266.45	4.946	
20,900.00	12,644.00	21,403.45	12,638.00	133.46	135.73	89.739	-9,162.08	-1,565.26	1,317.85	1,048.59	269.26	4.894	
21,000.00	12,644.00	21,503.45	12,638.00	134.88	137.12	89.739	-9,262.08	-1,564.26	1,317.82	1,045.75	272.07	4.844	
21,100.00	12,644.00	21,603.45	12,638.00	136.29	138.51	89.739	-9,362.07	-1,563.26	1,317.79	1,042.91	274.88	4.794	
21,200.00	12,644.00	21,703.45	12,638.00	137.71	139.90	89.739	-9,462.07	-1,562.26	1,317.76	1,040.07	277.68	4.746	
21,300.00	12,644.00	21,803.45	12,638.00	139.13	141.30	89.739	-9,562.06	-1,561.26	1,317.72	1,037.23	280.50	4.698	
21,400.00	12,644.00	21,903.45	12,638.00	140.54	142.69	89.739	-9,662.06	-1,560.27	1,317.69	1,034.38	283.31	4.651	
21,500.00	12,644.00	22,003.45	12,638.00	141.96	144.08	89.739	-9,762.05	-1,559.27	1,317.66	1,031.54	286.12	4.605	
21,600.00	12,644.00	22,103.45	12,638.00	143.38	145.48	89.739	-9,862.05	-1,558.27	1,317.63	1,028.69	288.94	4.560	
21,700.00	12,644.00	22,203.45	12,638.00	144.80	146.88	89.739	-9,962.04	-1,557.27	1,317.60	1,025.84	291.75	4.516	
21,800.00	12,644.00	22,303.45	12,638.00	146.22	148.28	89.739	-10,062.04	-1,556.27	1,317.56	1,023.00	294.57	4.473	
21,900.00	12,644.00	22,403.45	12,638.00	147.64	149.67	89.739	-10,162.03	-1,555.27	1,317.53	1,020.15	297.38	4.430	
22,000.00	12,644.00	22,503.45	12,638.00	149.06	151.07	89.739	-10,262.03	-1,554.28	1,317.50	1,017.30	300.20	4.389	
22,100.00	12,644.00	22,603.45	12,638.00	150.48	152.47	89.739	-10,362.02	-1,553.28	1,317.47	1,014.44	303.02	4.348	
22,199.47	12,644.00	22,702.92	12,638.00	151.89	153.87	89.739	-10,461.49	-1,552.29	1,317.43	1,011.61	305.83	4.308 ES, SF	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 432H - OH - Plan 1 08-31-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
0.00	0.00	0.00	1.00	1.00	1.00	-90.472	-9.64	-1,170.10	1,170.14				
100.00	100.00	99.00	100.00	1.08	1.08	-90.472	-9.64	-1,170.10	1,170.14	1,167.97	2.17	540.060	
200.00	200.00	199.00	200.00	1.60	1.59	-90.472	-9.64	-1,170.10	1,170.14	1,166.95	3.19	366.727	
300.00	300.00	299.00	300.00	2.01	2.01	-90.472	-9.64	-1,170.10	1,170.14	1,166.12	4.01	291.450	
400.00	400.00	399.00	400.00	2.35	2.35	-90.472	-9.64	-1,170.10	1,170.14	1,165.44	4.70	248.876	
500.00	500.00	499.00	500.00	2.65	2.65	-90.472	-9.64	-1,170.10	1,170.14	1,164.83	5.31	220.567	
600.00	600.00	599.00	600.00	2.93	2.92	-90.472	-9.64	-1,170.10	1,170.14	1,164.29	5.85	199.984	
700.00	700.00	699.00	700.00	3.18	3.18	-90.472	-9.64	-1,170.10	1,170.14	1,163.79	6.35	184.141	
800.00	800.00	799.00	800.00	3.41	3.41	-90.472	-9.64	-1,170.10	1,170.14	1,163.31	6.82	171.453	
900.00	900.00	899.00	900.00	3.64	3.63	-90.472	-9.64	-1,170.10	1,170.14	1,162.87	7.27	160.990	
1,000.00	1,000.00	999.00	1,000.00	3.85	3.84	-90.472	-9.64	-1,170.10	1,170.14	1,162.45	7.69	152.167	
1,100.00	1,100.00	1,099.00	1,100.00	4.05	4.05	-90.472	-9.64	-1,170.10	1,170.14	1,162.05	8.09	144.593	
1,200.00	1,200.00	1,199.00	1,200.00	4.24	4.24	-90.472	-9.64	-1,170.10	1,170.14	1,161.66	8.48	137.996	
1,300.00	1,300.00	1,299.00	1,300.00	4.43	4.43	-90.472	-9.64	-1,170.10	1,170.14	1,161.29	8.85	132.183	
1,400.00	1,400.00	1,399.00	1,400.00	4.61	4.61	-90.472	-9.64	-1,170.10	1,170.14	1,160.93	9.21	127.007	
1,500.00	1,500.00	1,499.00	1,500.00	4.78	4.78	-90.472	-9.64	-1,170.10	1,170.14	1,160.58	9.56	122.360	
1,600.00	1,599.98	1,617.71	1,618.68	4.98	5.00	63.557	-11.86	-1,169.14	1,168.57	1,158.72	9.85	118.688	
1,700.00	1,699.84	1,719.10	1,719.97	5.60	5.11	63.660	-15.97	-1,167.36	1,164.52	1,154.36	10.16	114.631	
1,718.18	1,717.96	1,737.25	1,738.10	5.62	5.14	63.698	-16.71	-1,167.04	1,163.61	1,153.43	10.19	114.240	
1,800.00	1,799.55	1,818.94	1,819.71	5.72	5.27	63.809	-20.03	-1,165.60	1,159.43	1,149.07	10.36	111.861	
1,900.00	1,899.26	1,918.77	1,919.44	5.89	5.45	63.945	-24.09	-1,163.84	1,154.33	1,143.69	10.64	108.530	
2,000.00	1,998.97	2,018.60	2,019.17	6.09	5.65	64.083	-28.15	-1,162.08	1,149.23	1,138.31	10.92	105.251	
2,100.00	2,098.68	2,118.43	2,118.91	6.30	5.86	64.222	-32.21	-1,160.33	1,144.14	1,132.93	11.21	102.091	
2,200.00	2,198.39	2,218.26	2,218.64	6.53	6.08	64.363	-36.28	-1,158.57	1,139.06	1,127.56	11.50	99.047	
2,300.00	2,298.10	2,318.09	2,318.37	6.77	6.31	64.504	-40.34	-1,156.81	1,133.98	1,122.18	11.80	96.119	
2,400.00	2,397.81	2,417.93	2,418.11	7.02	6.54	64.647	-44.40	-1,155.05	1,128.91	1,116.81	12.10	93.304	
2,500.00	2,497.52	2,517.76	2,517.84	7.28	6.79	64.791	-48.46	-1,153.29	1,123.85	1,111.44	12.40	90.599	
2,600.00	2,597.23	2,617.59	2,617.57	7.55	7.04	64.936	-52.52	-1,151.53	1,118.79	1,106.08	12.71	88.000	
2,700.00	2,696.94	2,717.42	2,717.31	7.83	7.30	65.083	-56.58	-1,149.78	1,113.75	1,100.72	13.03	85.503	
2,800.00	2,796.65	2,817.25	2,817.04	8.12	7.56	65.231	-60.64	-1,148.02	1,108.71	1,095.36	13.34	83.106	
2,900.00	2,896.36	2,917.08	2,916.77	8.42	7.83	65.381	-64.71	-1,146.26	1,103.67	1,090.01	13.66	80.803	
3,000.00	2,996.07	3,016.92	3,016.51	8.72	8.10	65.531	-68.77	-1,144.50	1,098.65	1,084.67	13.98	78.590	
3,100.00	3,095.78	3,116.75	3,116.24	9.03	8.38	65.684	-72.83	-1,142.74	1,093.63	1,079.33	14.30	76.465	
3,200.00	3,195.49	3,216.58	3,215.98	9.34	8.66	65.837	-76.89	-1,140.98	1,088.62	1,073.99	14.63	74.423	
3,300.00	3,295.20	3,316.41	3,315.71	9.66	8.95	65.992	-80.95	-1,139.23	1,083.62	1,068.66	14.95	72.459	
3,400.00	3,394.91	3,416.24	3,415.44	9.98	9.23	66.149	-85.01	-1,137.47	1,078.62	1,063.34	15.28	70.572	
3,500.00	3,494.62	3,516.07	3,515.18	10.30	9.52	66.306	-89.07	-1,135.71	1,073.63	1,058.02	15.62	68.756	
3,600.00	3,594.33	3,615.91	3,614.91	10.63	9.82	66.466	-93.13	-1,133.95	1,068.66	1,052.71	15.95	67.009	
3,700.00	3,694.04	3,715.74	3,714.64	10.96	10.11	66.627	-97.20	-1,132.19	1,063.69	1,047.40	16.28	65.328	
3,800.00	3,793.75	3,815.57	3,814.38	11.29	10.41	66.789	-101.26	-1,130.43	1,058.73	1,042.11	16.62	63.708	
3,900.00	3,893.47	3,915.40	3,914.11	11.63	10.71	66.953	-105.32	-1,128.68	1,053.77	1,036.82	16.96	62.148	
4,000.00	3,993.18	4,015.23	4,013.84	11.97	11.01	67.118	-109.38	-1,126.92	1,048.83	1,031.53	17.29	60.645	
4,100.00	4,092.89	4,115.06	4,113.58	12.31	11.31	67.285	-113.44	-1,125.16	1,043.89	1,026.26	17.63	59.196	
4,200.00	4,192.60	4,214.90	4,213.31	12.65	11.62	67.454	-117.50	-1,123.40	1,038.97	1,020.99	17.98	57.797	
4,300.00	4,292.31	4,314.73	4,313.04	13.00	11.92	67.624	-121.56	-1,121.64	1,034.05	1,015.73	18.32	56.448	
4,400.00	4,392.02	4,414.56	4,412.78	13.34	12.23	67.796	-125.62	-1,119.88	1,029.14	1,010.48	18.66	55.146	
4,500.00	4,491.73	4,514.39	4,512.51	13.69	12.54	67.969	-129.69	-1,118.13	1,024.24	1,005.24	19.01	53.888	
4,600.00	4,591.44	4,614.22	4,612.24	14.04	12.85	68.144	-133.75	-1,116.37	1,019.35	1,000.00	19.35	52.672	
4,700.00	4,691.15	4,714.05	4,711.98	14.39	13.16	68.321	-137.81	-1,114.61	1,014.47	994.77	19.70	51.497	
4,800.00	4,790.86	4,813.89	4,811.71	14.74	13.47	68.499	-141.87	-1,112.85	1,009.60	989.56	20.05	50.361	
4,900.00	4,890.57	4,913.72	4,911.45	15.10	13.78	68.680	-145.93	-1,111.09	1,004.74	984.35	20.40	49.261	
5,000.00	4,990.28	5,013.55	5,011.18	15.45	14.09	68.862	-149.99	-1,109.33	999.89	979.15	20.75	48.197	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 432H - OH - Plan 1 08-31-22													Offset Site Error:	0.00 usft	
Survey Program:		0-MWD+HRGM		Offset		Semi Maior Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,100.00	5,089.99	5,113.38	5,110.91	15.81	14.41	69.045	-154.05	-1,107.57	995.05	973.96	21.10	47.167			
5,200.00	5,189.70	5,213.21	5,210.65	16.16	14.72	69.231	-158.11	-1,105.82	990.22	968.78	21.45	46.169			
5,300.00	5,289.41	5,313.04	5,310.38	16.52	15.03	69.418	-162.18	-1,104.06	985.40	963.60	21.80	45.201			
5,400.00	5,389.12	5,412.88	5,410.11	16.88	15.35	69.607	-166.24	-1,102.30	980.60	958.44	22.15	44.264			
5,500.00	5,488.83	5,512.71	5,509.85	17.24	15.67	69.798	-170.30	-1,100.54	975.80	953.29	22.51	43.354			
5,600.00	5,588.54	5,612.54	5,609.58	17.59	15.98	69.991	-174.36	-1,098.78	971.01	948.15	22.86	42.472			
5,700.00	5,688.25	5,712.37	5,709.31	17.95	16.30	70.186	-178.42	-1,097.02	966.24	943.02	23.22	41.616			
5,800.00	5,787.96	5,812.20	5,809.05	18.32	16.62	70.383	-182.48	-1,095.27	961.47	937.90	23.57	40.784			
5,900.00	5,887.67	5,912.03	5,908.78	18.68	16.94	70.582	-186.54	-1,093.51	956.72	932.79	23.93	39.977			
6,000.00	5,987.38	6,011.87	6,008.51	19.04	17.26	70.782	-190.61	-1,091.75	951.98	927.69	24.29	39.192			
6,100.00	6,087.09	6,111.70	6,108.25	19.40	17.57	70.985	-194.67	-1,089.99	947.25	922.60	24.65	38.429			
6,200.00	6,186.80	6,211.53	6,207.98	19.76	17.89	71.190	-198.73	-1,088.23	942.53	917.52	25.01	37.688			
6,300.00	6,286.51	6,311.36	6,307.71	20.13	18.21	71.396	-202.79	-1,086.47	937.82	912.46	25.37	36.967			
6,400.00	6,386.22	6,411.19	6,407.45	20.49	18.53	71.605	-206.85	-1,084.72	933.13	907.40	25.73	36.265			
6,500.00	6,485.93	6,511.02	6,507.18	20.86	18.86	71.816	-210.91	-1,082.96	928.45	902.36	26.09	35.583			
6,600.00	6,585.64	6,610.86	6,606.91	21.22	19.18	72.029	-214.97	-1,081.20	923.78	897.33	26.46	34.918			
6,700.00	6,685.35	6,710.69	6,706.65	21.59	19.50	72.245	-219.03	-1,079.44	919.13	892.31	26.82	34.270			
6,800.00	6,785.06	6,810.52	6,806.38	21.95	19.82	72.462	-223.10	-1,077.68	914.49	887.30	27.18	33.640			
6,900.00	6,884.77	6,910.35	6,906.12	22.32	20.14	72.682	-227.16	-1,075.92	909.86	882.31	27.55	33.025			
7,000.00	6,984.48	7,010.18	7,005.85	22.68	20.46	72.903	-231.22	-1,074.17	905.24	877.33	27.92	32.426			
7,100.00	7,084.19	7,110.01	7,105.58	23.05	20.79	73.128	-235.28	-1,072.41	900.64	872.36	28.28	31.842			
7,200.00	7,183.90	7,209.85	7,205.32	23.42	21.11	73.354	-239.34	-1,070.65	896.05	867.40	28.65	31.273			
7,300.00	7,283.61	7,309.68	7,305.05	23.78	21.43	73.583	-243.40	-1,068.89	891.48	862.46	29.02	30.717			
7,400.00	7,383.32	7,409.51	7,404.78	24.15	21.75	73.814	-247.46	-1,067.13	886.92	857.53	29.39	30.175			
7,500.00	7,483.03	7,509.34	7,504.52	24.52	22.08	74.047	-251.52	-1,065.37	882.38	852.61	29.76	29.646			
7,600.00	7,582.74	7,609.17	7,604.25	24.89	22.40	74.283	-255.59	-1,063.62	877.85	847.71	30.14	29.129			
7,700.00	7,682.45	7,709.00	7,703.98	25.25	22.73	74.522	-259.65	-1,061.86	873.33	842.82	30.51	28.625			
7,800.00	7,782.16	7,808.84	7,803.72	25.62	23.05	74.763	-263.71	-1,060.10	868.83	837.95	30.88	28.132			
7,900.00	7,881.87	7,908.67	7,903.45	25.99	23.37	75.006	-267.77	-1,058.34	864.35	833.09	31.26	27.650			
8,000.00	7,981.58	8,008.50	8,003.18	26.36	23.70	75.252	-271.83	-1,056.58	859.88	828.24	31.64	27.179			
8,100.00	8,081.29	8,108.33	8,102.92	26.73	24.02	75.500	-275.89	-1,054.82	855.43	823.41	32.02	26.719			
8,200.00	8,181.00	8,208.16	8,202.65	27.10	24.35	75.751	-279.95	-1,053.07	850.99	818.60	32.39	26.269			
8,300.00	8,280.71	8,307.99	8,302.38	27.47	24.67	76.005	-284.01	-1,051.31	846.57	813.80	32.78	25.830			
8,400.00	8,380.42	8,407.83	8,402.12	27.84	25.00	76.261	-288.08	-1,049.55	842.17	809.01	33.16	25.399			
8,500.00	8,480.13	8,507.66	8,501.85	28.21	25.32	76.520	-292.14	-1,047.79	837.78	804.24	33.54	24.978			
8,600.00	8,579.84	8,607.49	8,601.59	28.58	25.65	76.782	-296.20	-1,046.03	833.42	799.49	33.93	24.566			
8,700.00	8,679.55	8,707.32	8,701.32	28.95	25.97	77.046	-300.26	-1,044.27	829.07	794.75	34.31	24.163			
8,800.00	8,779.26	8,807.15	8,801.05	29.32	26.30	77.313	-304.32	-1,042.52	824.73	790.03	34.70	23.768			
8,900.00	8,878.97	8,906.98	8,900.79	29.69	26.62	77.583	-308.38	-1,040.76	820.42	785.33	35.09	23.381			
9,000.00	8,978.68	9,006.82	9,000.52	30.06	26.95	77.856	-312.44	-1,039.00	816.12	780.64	35.48	23.002			
9,100.00	9,078.39	9,106.65	9,100.25	30.43	27.27	78.132	-316.51	-1,037.24	811.84	775.97	35.87	22.631			
9,200.00	9,178.10	9,206.48	9,199.99	30.80	27.60	78.411	-320.57	-1,035.48	807.58	771.32	36.27	22.267			
9,300.00	9,277.81	9,306.31	9,299.72	31.17	27.93	78.692	-324.63	-1,033.72	803.34	766.68	36.66	21.911			
9,400.00	9,377.52	9,406.14	9,399.45	31.54	28.25	78.977	-328.69	-1,031.96	799.12	762.06	37.06	21.561			
9,500.00	9,477.23	9,505.97	9,499.19	31.91	28.58	79.265	-332.75	-1,030.21	794.92	757.46	37.46	21.219			
9,600.00	9,576.94	9,605.81	9,598.92	32.29	28.90	79.555	-336.81	-1,028.45	790.75	752.88	37.87	20.883			
9,700.00	9,676.65	9,705.64	9,698.65	32.66	29.23	79.849	-340.87	-1,026.69	786.59	748.31	38.27	20.553			
9,800.00	9,776.36	9,805.47	9,798.39	33.03	29.56	80.146	-344.93	-1,024.93	782.45	743.77	38.68	20.230			
9,900.00	9,876.07	9,905.30	9,898.12	33.40	29.88	80.446	-349.00	-1,023.17	778.33	739.24	39.09	19.912			
10,000.00	9,975.78	10,005.13	9,997.85	33.77	30.21	80.749	-353.06	-1,021.41	774.24	734.74	39.50	19.601			
10,100.00	10,075.49	10,104.96	10,097.59	34.14	30.54	81.055	-357.12	-1,019.66	770.16	730.25	39.91	19.296			
10,200.00	10,175.20	10,204.80	10,197.32	34.52	30.86	81.365	-361.18	-1,017.90	766.11	725.78	40.33	18.996			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 432H - OH - Plan 1 08-31-22												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,300.00	10,274.91	10,304.63	10,297.05	34.89	31.19	81.678	-365.24	-1,016.14	762.08	721.33	40.75	18.701	
10,400.00	10,374.62	10,404.46	10,396.79	35.26	31.52	81.994	-369.30	-1,014.38	758.08	716.90	41.17	18.412	
10,500.00	10,474.33	10,504.29	10,496.52	35.63	31.85	82.313	-373.36	-1,012.62	754.09	712.49	41.60	18.128	
10,600.00	10,574.04	10,604.12	10,596.26	36.01	32.17	82.636	-377.42	-1,010.86	750.13	708.11	42.03	17.848	
10,700.00	10,673.75	10,703.95	10,695.99	36.38	32.50	82.962	-381.49	-1,009.11	746.20	703.74	42.46	17.574	
10,800.00	10,773.46	10,803.79	10,795.72	36.75	32.83	83.292	-385.55	-1,007.35	742.29	699.39	42.90	17.305	
10,900.00	10,873.18	10,903.62	10,895.46	37.12	33.15	83.625	-389.61	-1,005.59	738.40	695.07	43.33	17.040	
11,000.00	10,972.89	11,003.45	10,995.19	37.50	33.48	83.962	-393.67	-1,003.83	734.54	690.77	43.78	16.779	
11,100.00	11,072.60	11,103.28	11,094.92	37.87	33.81	84.302	-397.73	-1,002.07	730.71	686.49	44.22	16.523	
11,200.00	11,172.31	11,203.11	11,194.66	38.24	34.14	84.646	-401.79	-1,000.31	726.90	682.23	44.67	16.271	
11,300.00	11,272.02	11,302.94	11,294.39	38.62	34.46	84.994	-405.85	-998.56	723.12	677.99	45.13	16.024	
11,381.30	11,353.08	11,384.10	11,375.47	38.92	34.73	85.279	-409.16	-997.13	720.07	674.57	45.49	15.828	
11,400.00	11,371.73	11,402.78	11,394.13	38.98	34.79	85.326	-409.91	-996.80	719.37	673.80	45.57	15.785	
11,500.00	11,471.59	11,502.69	11,493.94	39.34	35.12	85.419	-413.98	-995.04	715.83	669.86	45.97	15.573	
11,599.47	11,571.04	11,594.46	11,585.64	39.49	35.40	-68.740	-417.41	-993.55	712.86	666.66	46.20	15.429	
11,600.00	11,571.57	11,594.91	11,586.08	39.49	35.41	-68.741	-417.42	-993.55	712.85	666.64	46.20	15.429	
11,700.00	11,671.57	11,680.41	11,671.57	39.52	35.53	-68.809	-418.52	-993.07	711.85	665.57	46.28	15.380	
11,800.00	11,771.57	11,780.41	11,771.57	39.52	35.53	-68.809	-418.52	-993.07	711.85	665.56	46.29	15.377	
11,900.00	11,871.57	11,880.41	11,871.57	39.53	35.54	-68.809	-418.52	-993.07	711.85	665.55	46.31	15.372	
12,000.00	11,971.57	11,980.41	11,971.57	39.54	35.55	-68.809	-418.52	-993.07	711.85	665.53	46.33	15.366	
12,099.47	12,071.04	12,079.88	12,071.04	39.54	35.55	-68.809	-418.52	-993.07	711.85	665.51	46.34	15.360	
12,100.00	12,071.57	12,080.41	12,071.57	39.55	35.55	111.744	-418.52	-993.07	711.86	665.51	46.34	15.360	
12,150.00	12,121.50	12,130.34	12,121.50	39.65	35.55	111.833	-418.52	-993.07	712.68	666.28	46.41	15.357	
12,200.00	12,171.05	12,181.72	12,172.88	39.91	35.56	112.111	-418.54	-993.07	715.16	668.54	46.62	15.341	
12,250.00	12,219.84	12,227.41	12,268.07	40.20	35.96	112.793	-427.15	-992.99	717.64	670.62	47.02	15.262	
12,300.00	12,267.50	12,375.25	12,362.53	40.50	36.56	113.048	-452.18	-992.74	718.56	671.14	47.42	15.154	
12,350.00	12,313.66	12,473.23	12,451.48	40.80	37.17	112.852	-492.97	-992.34	717.85	670.10	47.75	15.035	
12,400.00	12,357.98	12,569.30	12,530.72	41.09	37.74	112.224	-547.10	-991.81	715.56	667.53	48.03	14.898	
12,450.00	12,400.11	12,661.76	12,597.42	41.38	38.23	111.220	-610.98	-991.19	711.88	663.56	48.32	14.732	
12,500.00	12,439.74	12,749.40	12,650.39	41.66	38.63	109.920	-680.68	-990.51	707.11	658.43	48.67	14.527	
12,550.00	12,476.56	12,831.60	12,689.88	41.92	38.93	108.405	-752.70	-989.80	701.56	652.44	49.12	14.282	
12,600.00	12,510.29	12,908.25	12,717.07	42.16	39.14	106.749	-824.30	-989.10	695.59	645.93	49.67	14.005	
12,650.00	12,540.68	12,979.56	12,733.59	42.39	39.28	105.005	-893.62	-988.42	689.52	639.21	50.31	13.707	
12,700.00	12,567.50	13,045.96	12,741.11	42.58	39.36	103.213	-959.54	-987.78	683.62	632.60	51.02	13.400	
12,750.00	12,590.54	13,100.01	12,742.00	42.76	39.40	101.732	-1,013.58	-987.25	678.26	626.58	51.68	13.124	
12,800.00	12,609.63	13,146.21	12,742.00	42.91	39.43	100.657	-1,059.78	-986.80	674.25	621.91	52.34	12.882	
12,850.00	12,624.61	13,193.89	12,742.00	43.03	39.45	99.733	-1,107.46	-986.33	671.46	618.39	53.07	12.652	
12,900.00	12,635.39	13,242.70	12,742.00	43.12	39.49	99.024	-1,156.27	-985.85	669.66	615.77	53.88	12.428	
12,950.00	12,641.87	13,292.27	12,742.00	43.19	39.53	98.581	-1,205.83	-985.37	668.65	613.91	54.74	12.215	
12,999.47	12,644.00	13,341.68	12,742.00	43.23	39.57	98.432	-1,255.24	-984.88	668.33	612.69	55.64	12.012	
13,000.00	12,644.00	13,342.21	12,742.00	43.24	39.57	98.432	-1,255.76	-984.88	668.33	612.68	55.65	12.010	
13,100.00	12,644.00	13,442.21	12,742.00	43.31	39.67	98.432	-1,355.76	-983.90	668.31	610.78	57.53	11.617	
13,200.00	12,644.00	13,542.21	12,742.00	43.39	39.78	98.432	-1,455.75	-982.92	668.30	608.81	59.49	11.234	
13,300.00	12,644.00	13,642.21	12,742.00	43.50	39.92	98.432	-1,555.75	-981.94	668.29	606.77	61.52	10.864	
13,400.00	12,644.00	13,742.21	12,742.00	43.63	40.08	98.433	-1,655.74	-980.97	668.28	604.67	63.61	10.507	
13,500.00	12,644.00	13,842.21	12,742.00	43.78	40.28	98.433	-1,755.74	-979.99	668.27	602.51	65.75	10.163	
13,600.00	12,644.00	13,942.21	12,742.00	43.96	40.52	98.433	-1,855.74	-979.01	668.25	600.30	67.95	9.834	
13,700.00	12,644.00	14,042.21	12,742.00	44.18	40.81	98.433	-1,955.73	-978.03	668.24	598.04	70.20	9.520	
13,800.00	12,644.00	14,142.21	12,742.00	44.44	41.16	98.433	-2,055.73	-977.05	668.23	595.74	72.49	9.219	
13,900.00	12,644.00	14,242.21	12,742.00	44.74	41.58	98.433	-2,155.72	-976.07	668.22	593.41	74.81	8.932	
14,000.00	12,644.00	14,342.21	12,742.00	45.11	42.09	98.434	-2,255.72	-975.10	668.21	591.03	77.17	8.659	
14,100.00	12,644.00	14,442.21	12,742.00	45.54	42.69	98.434	-2,355.71	-974.12	668.19	588.63	79.57	8.398	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 432H - OH - Plan 1 08-31-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 1.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	12,644.00	14,542.21	12,742.00	46.05	43.39	98.434	-2,455.71	-973.14	668.18	586.19	81.99	8.150	
14,300.00	12,644.00	14,642.21	12,742.00	46.65	44.19	98.434	-2,555.70	-972.16	668.17	583.73	84.44	7.913	
14,400.00	12,644.00	14,742.21	12,742.00	47.33	45.08	98.434	-2,655.70	-971.18	668.16	581.24	86.91	7.688	
14,500.00	12,644.00	14,842.21	12,742.00	48.09	46.05	98.434	-2,755.69	-970.20	668.14	578.74	89.41	7.473	
14,600.00	12,644.00	14,942.21	12,742.00	48.94	47.08	98.434	-2,855.69	-969.23	668.13	576.21	91.93	7.268	
14,700.00	12,644.00	15,042.21	12,742.00	49.86	48.18	98.435	-2,955.68	-968.25	668.12	573.66	94.46	7.073	
14,800.00	12,644.00	15,142.21	12,742.00	50.85	49.31	98.435	-3,055.68	-967.27	668.11	571.09	97.02	6.887	
14,900.00	12,644.00	15,242.21	12,742.00	51.89	50.49	98.435	-3,155.67	-966.29	668.10	568.51	99.59	6.709	
15,000.00	12,644.00	15,342.21	12,742.00	52.99	51.70	98.435	-3,255.67	-965.31	668.08	565.91	102.17	6.539	
15,100.00	12,644.00	15,442.21	12,742.00	54.12	52.93	98.435	-3,355.66	-964.33	668.07	563.30	104.77	6.377	
15,200.00	12,644.00	15,542.21	12,742.00	55.29	54.19	98.435	-3,455.66	-963.36	668.06	560.68	107.38	6.221	
15,300.00	12,644.00	15,642.21	12,742.00	56.49	55.46	98.435	-3,555.65	-962.38	668.05	558.05	110.00	6.073	
15,400.00	12,644.00	15,742.21	12,742.00	57.72	56.75	98.436	-3,655.65	-961.40	668.04	555.40	112.64	5.931	
15,500.00	12,644.00	15,842.21	12,742.00	58.96	58.05	98.436	-3,755.64	-960.42	668.02	552.74	115.28	5.795	
15,600.00	12,644.00	15,942.21	12,742.00	60.22	59.36	98.436	-3,855.64	-959.44	668.01	550.08	117.94	5.664	
15,700.00	12,644.00	16,042.21	12,742.00	61.50	60.68	98.436	-3,955.63	-958.46	668.00	547.40	120.60	5.539	
15,800.00	12,644.00	16,142.21	12,742.00	62.79	62.01	98.436	-4,055.63	-957.49	667.99	544.72	123.27	5.419	
15,900.00	12,644.00	16,242.21	12,742.00	64.09	63.35	98.436	-4,155.63	-956.51	667.98	542.03	125.95	5.304	
16,000.00	12,644.00	16,342.21	12,742.00	65.40	64.69	98.437	-4,255.62	-955.53	667.96	539.33	128.64	5.193	
16,100.00	12,644.00	16,442.21	12,742.00	66.72	66.04	98.437	-4,355.62	-954.55	667.95	536.62	131.33	5.086	
16,200.00	12,644.00	16,542.21	12,742.00	68.04	67.40	98.437	-4,455.61	-953.57	667.94	533.91	134.03	4.984	
16,300.00	12,644.00	16,642.21	12,742.00	69.38	68.76	98.437	-4,555.61	-952.59	667.93	531.19	136.74	4.885	
16,400.00	12,644.00	16,742.21	12,742.00	70.72	70.12	98.437	-4,655.60	-951.62	667.92	528.47	139.45	4.790	
16,500.00	12,644.00	16,842.21	12,742.00	72.07	71.49	98.437	-4,755.60	-950.64	667.90	525.74	142.16	4.698	
16,600.00	12,644.00	16,942.21	12,742.00	73.42	72.86	98.437	-4,855.59	-949.66	667.89	523.00	144.89	4.610	
16,700.00	12,644.00	17,042.21	12,742.00	74.77	74.24	98.438	-4,955.59	-948.68	667.88	520.26	147.61	4.524	
16,800.00	12,644.00	17,142.21	12,742.00	76.13	75.61	98.438	-5,055.58	-947.70	667.87	517.52	150.35	4.442	
16,900.00	12,644.00	17,242.21	12,742.00	77.49	76.99	98.438	-5,155.58	-946.72	667.85	514.77	153.08	4.363	
17,000.00	12,644.00	17,342.21	12,742.00	78.86	78.38	98.438	-5,255.57	-945.75	667.84	512.02	155.82	4.286	
17,100.00	12,644.00	17,442.21	12,742.00	80.23	79.76	98.438	-5,355.57	-944.77	667.83	509.26	158.57	4.212	
17,200.00	12,644.00	17,542.21	12,742.00	81.60	81.15	98.438	-5,455.56	-943.79	667.82	506.50	161.32	4.140	
17,300.00	12,644.00	17,642.21	12,742.00	82.98	82.54	98.439	-5,555.56	-942.81	667.81	503.74	164.07	4.070	
17,400.00	12,644.00	17,742.21	12,742.00	84.36	83.93	98.439	-5,655.55	-941.83	667.79	500.97	166.82	4.003	
17,500.00	12,644.00	17,842.21	12,742.00	85.74	85.32	98.439	-5,755.55	-940.85	667.78	498.20	169.58	3.938	
17,600.00	12,644.00	17,942.21	12,742.00	87.12	86.72	98.439	-5,855.54	-939.88	667.77	495.43	172.34	3.875	
17,700.00	12,644.00	18,042.21	12,742.00	88.51	88.11	98.439	-5,955.54	-938.90	667.76	492.65	175.10	3.813	
17,800.00	12,644.00	18,142.21	12,742.00	89.89	89.51	98.439	-6,055.53	-937.92	667.75	489.87	177.87	3.754	
17,900.00	12,644.00	18,242.21	12,742.00	91.28	90.91	98.439	-6,155.53	-936.94	667.73	487.09	180.64	3.696	
18,000.00	12,644.00	18,342.21	12,742.00	92.67	92.31	98.440	-6,255.52	-935.96	667.72	484.31	183.41	3.641	
18,100.00	12,644.00	18,442.21	12,742.00	94.07	93.71	98.440	-6,355.52	-934.98	667.71	481.52	186.19	3.586	
18,200.00	12,644.00	18,542.21	12,742.00	95.46	95.11	98.440	-6,455.52	-934.00	667.70	478.74	188.96	3.533	
18,300.00	12,644.00	18,642.21	12,742.00	96.85	96.52	98.440	-6,555.51	-933.03	667.69	475.94	191.74	3.482	
18,400.00	12,644.00	18,742.21	12,742.00	98.25	97.92	98.440	-6,655.51	-932.05	667.67	473.15	194.52	3.432	
18,500.00	12,644.00	18,842.21	12,742.00	99.65	99.33	98.440	-6,755.50	-931.07	667.66	470.36	197.30	3.384	
18,600.00	12,644.00	18,942.21	12,742.00	101.05	100.74	98.441	-6,855.50	-930.09	667.65	467.56	200.09	3.337	
18,700.00	12,644.00	19,042.21	12,742.00	102.45	102.14	98.441	-6,955.49	-929.11	667.64	464.76	202.88	3.291	
18,800.00	12,644.00	19,142.21	12,742.00	103.85	103.55	98.441	-7,055.49	-928.13	667.63	461.96	205.66	3.246	
18,900.00	12,644.00	19,242.21	12,742.00	105.25	104.96	98.441	-7,155.48	-927.16	667.61	459.16	208.45	3.203	
19,000.00	12,644.00	19,342.21	12,742.00	106.65	106.37	98.441	-7,255.48	-926.18	667.60	456.36	211.25	3.160	
19,100.00	12,644.00	19,442.21	12,742.00	108.06	107.78	98.441	-7,355.47	-925.20	667.59	453.55	214.04	3.119	
19,200.00	12,644.00	19,542.21	12,742.00	109.46	109.19	98.441	-7,455.47	-924.22	667.58	450.74	216.83	3.079	
19,300.00	12,644.00	19,642.21	12,742.00	110.87	110.61	98.442	-7,555.46	-923.24	667.56	447.94	219.63	3.040	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 432H - OH - Plan 1 08-31-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance			Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		
19,400.00	12,644.00	19,742.21	12,742.00	112.28	112.02	98.442	-7,655.46	-922.26	667.55	445.13	222.43	3.001	
19,500.00	12,644.00	19,842.21	12,742.00	113.68	113.43	98.442	-7,755.45	-921.29	667.54	442.32	225.22	2.964	
19,600.00	12,644.00	19,942.21	12,742.00	115.09	114.85	98.442	-7,855.45	-920.31	667.53	439.50	228.02	2.927	
19,700.00	12,644.00	20,042.21	12,742.00	116.50	116.26	98.442	-7,955.44	-919.33	667.52	436.69	230.83	2.892	
19,800.00	12,644.00	20,142.21	12,742.00	117.91	117.68	98.442	-8,055.44	-918.35	667.50	433.88	233.63	2.857	
19,900.00	12,644.00	20,242.21	12,742.00	119.32	119.09	98.443	-8,155.43	-917.37	667.49	431.06	236.43	2.823	
20,000.00	12,644.00	20,342.21	12,742.00	120.73	120.51	98.443	-8,255.43	-916.39	667.48	428.24	239.24	2.790	
20,100.00	12,644.00	20,442.21	12,742.00	122.15	121.93	98.443	-8,355.42	-915.42	667.47	425.43	242.04	2.758	
20,200.00	12,644.00	20,542.21	12,742.00	123.56	123.34	98.443	-8,455.42	-914.44	667.46	422.61	244.85	2.726	
20,300.00	12,644.00	20,642.21	12,742.00	124.97	124.76	98.443	-8,555.41	-913.46	667.44	419.79	247.66	2.695	
20,400.00	12,644.00	20,742.21	12,742.00	126.38	126.18	98.443	-8,655.41	-912.48	667.43	416.97	250.47	2.665	
20,500.00	12,644.00	20,842.21	12,742.00	127.80	127.60	98.444	-8,755.41	-911.50	667.42	414.14	253.28	2.635	
20,600.00	12,644.00	20,942.21	12,742.00	129.21	129.02	98.444	-8,855.40	-910.52	667.41	411.32	256.09	2.606	
20,700.00	12,644.00	21,042.21	12,742.00	130.63	130.44	98.444	-8,955.40	-909.55	667.40	408.50	258.90	2.578	
20,800.00	12,644.00	21,142.21	12,742.00	132.04	131.86	98.444	-9,055.39	-908.57	667.38	405.67	261.71	2.550	
20,900.00	12,644.00	21,242.21	12,742.00	133.46	133.28	98.444	-9,155.39	-907.59	667.37	402.85	264.52	2.523	
21,000.00	12,644.00	21,342.21	12,742.00	134.88	134.70	98.444	-9,255.38	-906.61	667.36	400.02	267.34	2.496	
21,100.00	12,644.00	21,442.21	12,742.00	136.29	136.12	98.444	-9,355.38	-905.63	667.35	397.19	270.15	2.470	
21,200.00	12,644.00	21,542.21	12,742.00	137.71	137.54	98.445	-9,455.37	-904.65	667.34	394.37	272.97	2.445	
21,300.00	12,644.00	21,642.21	12,742.00	139.13	138.96	98.445	-9,555.37	-903.68	667.32	391.54	275.78	2.420	
21,400.00	12,644.00	21,742.21	12,742.00	140.54	140.38	98.445	-9,655.36	-902.70	667.31	388.71	278.60	2.395	
21,500.00	12,644.00	21,842.21	12,742.00	141.96	141.81	98.445	-9,755.36	-901.72	667.30	385.88	281.42	2.371	
21,600.00	12,644.00	21,942.21	12,742.00	143.38	143.23	98.445	-9,855.35	-900.74	667.29	383.05	284.24	2.348	
21,700.00	12,644.00	22,042.21	12,742.00	144.80	144.65	98.445	-9,955.35	-899.76	667.27	380.22	287.06	2.325	
21,800.00	12,644.00	22,142.21	12,742.00	146.22	146.07	98.446	-10,055.34	-898.78	667.26	377.39	289.87	2.302	
21,900.00	12,644.00	22,242.21	12,742.00	147.64	147.50	98.446	-10,155.34	-897.81	667.25	374.56	292.69	2.280	
22,000.00	12,644.00	22,342.21	12,742.00	149.06	148.92	98.446	-10,255.33	-896.83	667.24	371.72	295.52	2.258	
22,100.00	12,644.00	22,442.21	12,742.00	150.48	150.34	98.446	-10,355.33	-895.85	667.23	368.89	298.34	2.236	
22,199.47	12,644.00	22,541.68	12,742.00	151.89	151.76	98.446	-10,454.80	-894.88	667.21	366.07	301.14	2.216 CC, ES, SF	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 433H - OH - Plan 1 08-31-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Minimum Separation		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor		
0.00	0.00	0.00	0.00	1.00	1.00	89.618	0.40	60.07	60.07				
100.00	100.00	100.00	100.00	1.08	1.08	89.618	0.40	60.07	60.07	57.90	2.17	27.704	
200.00	200.00	200.00	200.00	1.60	1.60	89.618	0.40	60.07	60.07	56.87	3.20	18.789	
300.00	300.00	300.00	300.00	2.01	2.01	89.618	0.40	60.07	60.07	56.05	4.02	14.946	
400.00	400.00	400.00	400.00	2.35	2.35	89.618	0.40	60.07	60.07	55.37	4.71	12.767	
500.00	500.00	500.00	500.00	2.65	2.65	89.618	0.40	60.07	60.07	54.76	5.31	11.317	
600.00	600.00	600.00	600.00	2.93	2.93	89.618	0.40	60.07	60.07	54.22	5.85	10.262	
700.00	700.00	700.00	700.00	3.18	3.18	89.618	0.40	60.07	60.07	53.71	6.36	9.449	
800.00	800.00	800.00	800.00	3.41	3.41	89.618	0.40	60.07	60.07	53.24	6.83	8.799	
900.00	900.00	900.00	900.00	3.64	3.64	89.618	0.40	60.07	60.07	52.80	7.27	8.262	
1,000.00	1,000.00	1,000.00	1,000.00	3.85	3.85	89.618	0.40	60.07	60.07	52.38	7.69	7.810	
1,100.00	1,100.00	1,100.00	1,100.00	4.05	4.05	89.618	0.40	60.07	60.07	51.98	8.09	7.421	
1,200.00	1,200.00	1,200.00	1,200.00	4.24	4.24	89.618	0.40	60.07	60.07	51.59	8.48	7.083	
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	89.618	0.40	60.07	60.07	51.22	8.85	6.784	
1,400.00	1,400.00	1,400.00	1,400.00	4.61	4.61	89.618	0.40	60.07	60.07	50.86	9.21	6.519	
1,500.00	1,500.00	1,500.00	1,500.00	4.78	4.78	89.618	0.40	60.07	60.07	50.51	9.56	6.280 CC, ES	
1,600.00	1,599.98	1,599.19	1,599.17	4.98	4.98	-116.301	-1.19	60.73	61.50	51.66	9.84	6.251	
1,700.00	1,699.84	1,698.27	1,698.11	5.60	5.59	-116.129	-5.93	62.71	65.79	55.52	10.27	6.407	
1,718.18	1,717.96	1,716.40	1,716.19	5.62	5.65	-116.126	-7.10	63.19	66.85	56.55	10.30	6.490	
1,800.00	1,799.55	1,798.07	1,797.67	5.72	5.90	-116.376	-12.35	65.38	71.77	61.27	10.50	6.833	
1,900.00	1,899.26	1,897.89	1,897.25	5.89	6.08	-116.639	-18.78	68.06	77.79	67.01	10.77	7.220	
2,000.00	1,998.97	1,997.71	1,996.82	6.09	6.26	-116.864	-25.20	70.73	83.80	72.75	11.06	7.579	
2,100.00	2,098.68	2,097.53	2,096.40	6.30	6.46	-117.059	-31.63	73.41	89.82	78.47	11.35	7.915	
2,200.00	2,198.39	2,197.34	2,195.97	6.53	6.68	-117.229	-38.05	76.08	95.84	84.19	11.64	8.230	
2,300.00	2,298.10	2,297.16	2,295.55	6.77	6.91	-117.379	-44.48	78.76	101.86	89.91	11.95	8.526	
2,400.00	2,397.81	2,396.98	2,395.12	7.02	7.15	-117.513	-50.90	81.43	107.88	95.62	12.25	8.803	
2,500.00	2,497.52	2,496.80	2,494.70	7.28	7.40	-117.632	-57.33	84.11	113.90	101.33	12.57	9.063	
2,600.00	2,597.23	2,596.62	2,594.27	7.55	7.66	-117.740	-63.75	86.78	119.92	107.03	12.89	9.306	
2,700.00	2,696.94	2,696.44	2,693.85	7.83	7.93	-117.837	-70.18	89.46	125.94	112.73	13.21	9.535	
2,800.00	2,796.65	2,796.25	2,793.42	8.12	8.20	-117.925	-76.60	92.13	131.96	118.43	13.53	9.751	
2,900.00	2,896.36	2,896.07	2,893.00	8.42	8.49	-118.006	-83.03	94.81	137.98	124.12	13.86	9.953	
3,000.00	2,996.07	2,995.89	2,992.58	8.72	8.78	-118.080	-89.45	97.49	144.00	129.80	14.20	10.143	
3,100.00	3,095.78	3,095.71	3,092.15	9.03	9.07	-118.147	-95.88	100.16	150.02	135.49	14.53	10.323	
3,200.00	3,195.49	3,195.53	3,191.73	9.34	9.37	-118.210	-102.30	102.84	156.04	141.17	14.87	10.492	
3,300.00	3,295.20	3,295.35	3,291.30	9.66	9.68	-118.268	-108.73	105.51	162.07	146.85	15.22	10.652	
3,400.00	3,394.91	3,395.17	3,390.88	9.98	9.98	-118.322	-115.15	108.19	168.09	152.53	15.56	10.803	
3,500.00	3,494.62	3,494.98	3,490.45	10.30	10.30	-118.372	-121.58	110.86	174.11	158.20	15.91	10.945	
3,600.00	3,594.33	3,594.80	3,590.03	10.63	10.61	-118.419	-128.00	113.54	180.13	163.88	16.26	11.080	
3,700.00	3,694.04	3,694.62	3,689.60	10.96	10.93	-118.463	-134.43	116.21	186.16	169.55	16.61	11.208	
3,800.00	3,793.75	3,794.44	3,789.18	11.29	11.26	-118.504	-140.85	118.89	192.18	175.22	16.96	11.329	
3,900.00	3,893.47	3,894.26	3,888.75	11.63	11.58	-118.542	-147.28	121.56	198.20	180.88	17.32	11.444	
4,000.00	3,993.18	3,994.08	3,988.33	11.97	11.91	-118.578	-153.70	124.24	204.22	186.55	17.68	11.553	
4,100.00	4,092.89	4,093.89	4,087.91	12.31	12.24	-118.613	-160.13	126.91	210.25	192.21	18.04	11.657	
4,200.00	4,192.60	4,193.71	4,187.48	12.65	12.57	-118.645	-166.55	129.59	216.27	197.87	18.40	11.756	
4,300.00	4,292.31	4,293.53	4,287.06	13.00	12.90	-118.675	-172.98	132.27	222.29	203.53	18.76	11.850	
4,400.00	4,392.02	4,393.35	4,386.63	13.34	13.24	-118.704	-179.40	134.94	228.32	209.19	19.12	11.939	
4,500.00	4,491.73	4,493.17	4,486.21	13.69	13.58	-118.732	-185.83	137.62	234.34	214.85	19.49	12.025	
4,600.00	4,591.44	4,592.99	4,585.78	14.04	13.92	-118.758	-192.25	140.29	240.36	220.51	19.85	12.106	
4,700.00	4,691.15	4,692.80	4,685.36	14.39	14.26	-118.783	-198.68	142.97	246.39	226.16	20.22	12.184	
4,800.00	4,790.86	4,792.62	4,784.93	14.74	14.60	-118.806	-205.10	145.64	252.41	231.82	20.59	12.259	
4,900.00	4,890.57	4,892.44	4,884.51	15.10	14.94	-118.829	-211.53	148.32	258.43	237.47	20.96	12.330	
5,000.00	4,990.28	4,992.26	4,984.08	15.45	15.29	-118.850	-217.95	150.99	264.46	243.13	21.33	12.398	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 433H - OH - Plan 1 08-31-22												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	5,089.99	5,092.08	5,083.66	15.81	15.63	-118.871	-224.38	153.67	270.48	248.78	21.70	12.463	
5,200.00	5,189.70	5,191.90	5,183.24	16.16	15.98	-118.890	-230.80	156.34	276.50	254.43	22.07	12.526	
5,300.00	5,289.41	5,291.71	5,282.81	16.52	16.32	-118.909	-237.23	159.02	282.53	260.08	22.45	12.586	
5,400.00	5,389.12	5,391.53	5,382.39	16.88	16.67	-118.927	-243.65	161.69	288.55	265.73	22.82	12.644	
5,500.00	5,488.83	5,491.35	5,481.96	17.24	17.02	-118.944	-250.08	164.37	294.57	271.38	23.20	12.699	
5,600.00	5,588.54	5,591.17	5,581.54	17.59	17.37	-118.961	-256.50	167.05	300.60	277.03	23.57	12.752	
5,700.00	5,688.25	5,690.99	5,681.11	17.95	17.72	-118.977	-262.93	169.72	306.62	282.67	23.95	12.804	
5,800.00	5,787.96	5,790.81	5,780.69	18.32	18.07	-118.992	-269.35	172.40	312.64	288.32	24.33	12.853	
5,900.00	5,887.67	5,890.62	5,880.26	18.68	18.42	-119.007	-275.78	175.07	318.67	293.97	24.70	12.900	
6,000.00	5,987.38	5,990.44	5,979.84	19.04	18.77	-119.021	-282.20	177.75	324.69	299.61	25.08	12.946	
6,100.00	6,087.09	6,090.26	6,079.41	19.40	19.13	-119.035	-288.63	180.42	330.72	305.26	25.46	12.990	
6,200.00	6,186.80	6,190.08	6,178.99	19.76	19.48	-119.048	-295.05	183.10	336.74	310.90	25.84	13.032	
6,300.00	6,286.51	6,289.90	6,278.57	20.13	19.83	-119.060	-301.48	185.77	342.76	316.54	26.22	13.073	
6,400.00	6,386.22	6,389.72	6,378.14	20.49	20.19	-119.073	-307.90	188.45	348.79	322.19	26.60	13.113	
6,500.00	6,485.93	6,489.54	6,477.72	20.86	20.54	-119.085	-314.33	191.12	354.81	327.83	26.98	13.151	
6,600.00	6,585.64	6,589.35	6,577.29	21.22	20.90	-119.096	-320.75	193.80	360.83	333.47	27.36	13.188	
6,700.00	6,685.35	6,689.17	6,676.87	21.59	21.25	-119.107	-327.18	196.47	366.86	339.12	27.74	13.224	
6,800.00	6,785.06	6,788.99	6,776.44	21.95	21.61	-119.118	-333.60	199.15	372.88	344.76	28.12	13.258	
6,900.00	6,884.77	6,888.81	6,876.02	22.32	21.97	-119.128	-340.03	201.83	378.91	350.40	28.51	13.291	
7,000.00	6,984.48	6,988.63	6,975.59	22.68	22.32	-119.138	-346.45	204.50	384.93	356.04	28.89	13.324	
7,100.00	7,084.19	7,088.45	7,075.17	23.05	22.68	-119.148	-352.88	207.18	390.95	361.68	29.27	13.355	
7,200.00	7,183.90	7,188.26	7,174.74	23.42	23.04	-119.158	-359.30	209.85	396.98	367.32	29.66	13.385	
7,300.00	7,283.61	7,288.08	7,274.32	23.78	23.40	-119.167	-365.73	212.53	403.00	372.96	30.04	13.415	
7,400.00	7,383.32	7,387.90	7,373.90	24.15	23.75	-119.176	-372.15	215.20	409.02	378.60	30.43	13.443	
7,500.00	7,483.03	7,487.72	7,473.47	24.52	24.11	-119.184	-378.58	217.88	415.05	384.24	30.81	13.471	
7,600.00	7,582.74	7,587.54	7,573.05	24.89	24.47	-119.193	-385.00	220.55	421.07	389.88	31.20	13.498	
7,700.00	7,682.45	7,687.36	7,672.62	25.25	24.83	-119.201	-391.43	223.23	427.10	395.52	31.58	13.524	
7,800.00	7,782.16	7,787.17	7,772.20	25.62	25.19	-119.209	-397.85	225.90	433.12	401.15	31.97	13.549	
7,900.00	7,881.87	7,886.99	7,871.77	25.99	25.55	-119.216	-404.28	228.58	439.14	406.79	32.35	13.574	
8,000.00	7,981.58	7,986.81	7,971.35	26.36	25.91	-119.224	-410.70	231.25	445.17	412.43	32.74	13.598	
8,100.00	8,081.29	8,086.63	8,070.92	26.73	26.27	-119.231	-417.13	233.93	451.19	418.07	33.12	13.621	
8,200.00	8,181.00	8,186.45	8,170.50	27.10	26.63	-119.238	-423.55	236.61	457.22	423.70	33.51	13.644	
8,300.00	8,280.71	8,286.27	8,270.07	27.47	26.99	-119.245	-429.98	239.28	463.24	429.34	33.90	13.666	
8,400.00	8,380.42	8,386.08	8,369.65	27.84	27.35	-119.252	-436.40	241.96	469.26	434.98	34.29	13.687	
8,500.00	8,480.13	8,485.90	8,469.23	28.21	27.71	-119.259	-442.83	244.63	475.29	440.61	34.67	13.708	
8,600.00	8,579.84	8,585.72	8,568.80	28.58	28.07	-119.265	-449.25	247.31	481.31	446.25	35.06	13.728	
8,700.00	8,679.55	8,685.54	8,668.38	28.95	28.43	-119.271	-455.68	249.98	487.34	451.89	35.45	13.748	
8,800.00	8,779.26	8,785.36	8,767.95	29.32	28.79	-119.277	-462.10	252.66	493.36	457.52	35.84	13.767	
8,900.00	8,878.97	8,885.18	8,867.53	29.69	29.16	-119.283	-468.53	255.33	499.38	463.16	36.22	13.786	
9,000.00	8,978.68	8,984.99	8,967.10	30.06	29.52	-119.289	-474.95	258.01	505.41	468.79	36.61	13.804	
9,100.00	9,078.39	9,084.81	9,066.68	30.43	29.88	-119.295	-481.38	260.68	511.43	474.43	37.00	13.822	
9,200.00	9,178.10	9,184.63	9,166.25	30.80	30.24	-119.300	-487.80	263.36	517.46	480.06	37.39	13.839	
9,300.00	9,277.81	9,284.45	9,265.83	31.17	30.60	-119.306	-494.23	266.03	523.48	485.70	37.78	13.856	
9,400.00	9,377.52	9,384.27	9,365.40	31.54	30.97	-119.311	-500.65	268.71	529.50	491.33	38.17	13.873	
9,500.00	9,477.23	9,484.09	9,464.98	31.91	31.33	-119.316	-507.08	271.38	535.53	496.97	38.56	13.889	
9,600.00	9,576.94	9,583.90	9,564.56	32.29	31.69	-119.321	-513.50	274.06	541.55	502.60	38.95	13.905	
9,700.00	9,676.65	9,683.72	9,664.13	32.66	32.05	-119.326	-519.93	276.74	547.58	508.24	39.34	13.920	
9,800.00	9,776.36	9,783.54	9,763.71	33.03	32.42	-119.331	-526.35	279.41	553.60	513.87	39.73	13.935	
9,900.00	9,876.07	9,883.36	9,863.28	33.40	32.78	-119.336	-532.78	282.09	559.62	519.51	40.12	13.950	
10,000.00	9,975.78	9,983.18	9,962.86	33.77	33.14	-119.340	-539.20	284.76	565.65	525.14	40.51	13.964	
10,100.00	10,075.49	10,083.00	10,062.43	34.14	33.50	-119.345	-545.63	287.44	571.67	530.77	40.90	13.978	
10,200.00	10,175.20	10,182.82	10,162.01	34.52	33.87	-119.349	-552.05	290.11	577.70	536.41	41.29	13.992	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 433H - OH - Plan 1 08-31-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,300.00	10,274.91	10,282.63	10,261.58	34.89	34.23	-119.354	-558.48	292.79	583.72	542.04	41.68	14.005	
10,400.00	10,374.62	10,382.45	10,361.16	35.26	34.59	-119.358	-564.90	295.46	589.74	547.67	42.07	14.018	
10,500.00	10,474.33	10,482.27	10,460.73	35.63	34.96	-119.362	-571.33	298.14	595.77	553.31	42.46	14.031	
10,600.00	10,574.04	10,582.09	10,560.31	36.01	35.32	-119.366	-577.75	300.81	601.79	558.94	42.85	14.044	
10,700.00	10,673.75	10,681.91	10,659.89	36.38	35.69	-119.370	-584.18	303.49	607.82	564.57	43.24	14.056	
10,800.00	10,773.46	10,781.73	10,759.46	36.75	36.05	-119.374	-590.60	306.16	613.84	570.21	43.63	14.068	
10,900.00	10,873.18	10,881.54	10,859.04	37.12	36.41	-119.378	-597.03	308.84	619.86	575.84	44.02	14.080	
11,000.00	10,972.89	10,981.36	10,958.61	37.50	36.78	-119.382	-603.45	311.52	625.89	581.47	44.42	14.092	
11,100.00	11,072.60	11,081.18	11,058.19	37.87	37.14	-119.386	-609.88	314.19	631.91	587.10	44.81	14.103	
11,200.00	11,172.31	11,181.00	11,157.76	38.24	37.51	-119.389	-616.30	316.87	637.94	592.74	45.20	14.114	
11,300.00	11,272.02	11,280.82	11,257.34	38.62	37.87	-119.393	-622.73	319.54	643.96	598.37	45.59	14.125	
11,381.30	11,353.08	11,361.97	11,338.29	38.92	38.17	-119.396	-627.95	321.72	648.86	602.95	45.90	14.135	
11,400.00	11,371.73	11,380.64	11,356.92	38.98	38.23	-119.411	-629.15	322.22	649.95	603.98	45.97	14.138	
11,500.00	11,471.59	11,480.49	11,456.53	39.34	38.60	-119.316	-635.58	324.89	654.80	608.47	46.33	14.133	
11,599.47	11,571.04	11,585.60	11,561.43	39.49	38.97	87.001	-641.43	327.33	657.65	611.08	46.57	14.123	
11,600.00	11,571.57	11,586.17	11,562.00	39.49	38.97	87.003	-641.46	327.34	657.66	611.09	46.57	14.123	
11,700.00	11,671.57	11,694.55	11,670.35	39.52	39.31	87.220	-643.90	328.36	658.48	611.77	46.72	14.095	
11,800.00	11,771.57	11,795.77	11,771.57	39.52	39.34	87.223	-643.94	328.37	658.50	611.76	46.73	14.091	
11,900.00	11,871.57	11,895.77	11,871.57	39.53	39.35	87.223	-643.94	328.37	658.50	611.75	46.74	14.087	
12,000.00	11,971.57	11,995.77	11,971.57	39.54	39.35	87.223	-643.94	328.37	658.50	611.74	46.76	14.083	
12,099.47	12,071.04	12,095.24	12,071.04	39.54	39.36	87.223	-643.94	328.37	658.50	611.72	46.77	14.078	
12,100.00	12,071.57	12,095.77	12,071.57	39.55	39.36	-92.223	-643.94	328.37	658.50	611.72	46.77	14.078	
12,150.00	12,121.50	12,145.70	12,121.50	39.65	39.36	-92.407	-643.94	328.37	658.59	611.78	46.81	14.070	
12,200.00	12,171.05	12,195.25	12,171.05	39.91	39.36	-92.942	-643.94	328.37	658.90	612.00	46.90	14.049	
12,250.00	12,219.84	12,246.89	12,222.67	40.20	39.43	-93.761	-645.11	328.38	659.48	612.43	47.05	14.018	
12,300.00	12,267.50	12,300.53	12,275.95	40.50	39.69	-94.593	-651.03	328.44	660.20	612.93	47.27	13.966	
12,350.00	12,313.66	12,355.24	12,329.50	40.80	40.02	-95.396	-662.18	328.55	661.03	613.47	47.56	13.898	
12,400.00	12,357.98	12,411.03	12,382.75	41.09	40.36	-96.162	-678.76	328.71	661.94	614.02	47.92	13.814	
12,450.00	12,400.11	12,467.91	12,435.12	41.38	40.71	-96.885	-700.90	328.92	662.90	614.57	48.34	13.714	
12,500.00	12,439.74	12,525.85	12,485.93	41.66	41.07	-97.555	-728.68	329.19	663.89	615.07	48.82	13.600	
12,550.00	12,476.56	12,584.81	12,534.49	41.92	41.42	-98.165	-762.07	329.51	664.85	615.50	49.35	13.472	
12,600.00	12,510.29	12,644.72	12,580.06	42.16	41.75	-98.706	-800.92	329.88	665.77	615.83	49.94	13.331	
12,650.00	12,540.68	12,705.48	12,621.88	42.39	42.06	-99.171	-844.96	330.31	666.59	616.01	50.58	13.179	
12,700.00	12,567.50	12,767.00	12,659.22	42.58	42.34	-99.552	-893.80	330.78	667.30	616.02	51.27	13.015	
12,750.00	12,590.54	12,829.12	12,691.41	42.76	42.58	-99.844	-946.90	331.29	667.85	615.84	52.01	12.841	
12,800.00	12,609.63	12,891.69	12,717.82	42.91	42.79	-100.040	-1,003.58	331.83	668.23	615.44	52.79	12.659	
12,850.00	12,624.61	12,954.53	12,737.97	43.03	42.95	-100.139	-1,063.07	332.41	668.42	614.81	53.61	12.468	
12,900.00	12,635.39	13,017.46	12,751.51	43.12	43.06	-100.137	-1,124.50	333.00	668.42	613.94	54.48	12.269	
12,950.00	12,641.87	13,080.30	12,758.22	43.19	43.14	-100.036	-1,186.94	333.60	668.22	612.83	55.38	12.065	
12,999.47	12,644.00	13,135.81	12,759.00	43.23	43.17	-99.914	-1,242.44	334.13	667.95	611.66	56.29	11.866	
13,000.00	12,644.00	13,136.34	12,759.00	43.24	43.17	-99.914	-1,242.96	334.14	667.95	611.65	56.30	11.864	
13,100.00	12,644.00	13,236.34	12,759.00	43.31	43.23	-99.914	-1,342.96	335.10	667.95	609.79	58.16	11.485	
13,200.00	12,644.00	13,336.34	12,759.00	43.39	43.30	-99.914	-1,442.95	336.06	667.94	607.85	60.09	11.115	
13,300.00	12,644.00	13,436.34	12,759.00	43.50	43.39	-99.914	-1,542.95	337.03	667.94	605.84	62.10	10.756	
13,400.00	12,644.00	13,536.34	12,759.00	43.63	43.49	-99.914	-1,642.94	337.99	667.94	603.77	64.17	10.409	
13,500.00	12,644.00	13,636.34	12,759.00	43.78	43.61	-99.914	-1,742.94	338.95	667.93	601.63	66.30	10.075	
13,600.00	12,644.00	13,736.34	12,759.00	43.96	43.75	-99.914	-1,842.94	339.91	667.93	599.45	68.48	9.754	
13,700.00	12,644.00	13,836.34	12,759.00	44.18	43.93	-99.914	-1,942.93	340.88	667.93	597.22	70.71	9.447	
13,800.00	12,644.00	13,936.34	12,759.00	44.44	44.13	-99.914	-2,042.93	341.84	667.92	594.95	72.97	9.153	
13,900.00	12,644.00	14,036.34	12,759.00	44.74	44.38	-99.914	-2,142.92	342.80	667.92	592.64	75.28	8.872	
14,000.00	12,644.00	14,136.34	12,759.00	45.11	44.68	-99.914	-2,242.92	343.76	667.92	590.29	77.63	8.604	
14,100.00	12,644.00	14,236.34	12,759.00	45.54	45.05	-99.914	-2,342.91	344.73	667.91	587.91	80.00	8.349	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 433H - OH - Plan 1 08-31-22												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,200.00	12,644.00	14,336.34	12,759.00	46.05	45.49	-99.915	-2,442.91	345.69	667.91	585.50	82.41	8.105	
14,300.00	12,644.00	14,436.34	12,759.00	46.65	46.02	-99.915	-2,542.90	346.65	667.90	583.06	84.84	7.872	
14,400.00	12,644.00	14,536.34	12,759.00	47.33	46.64	-99.915	-2,642.90	347.61	667.90	580.60	87.30	7.651	
14,500.00	12,644.00	14,636.34	12,759.00	48.09	47.37	-99.915	-2,742.89	348.58	667.90	578.12	89.78	7.439	
14,600.00	12,644.00	14,736.34	12,759.00	48.94	48.19	-99.915	-2,842.89	349.54	667.89	575.61	92.28	7.238	
14,700.00	12,644.00	14,836.34	12,759.00	49.86	49.10	-99.915	-2,942.88	350.50	667.89	573.09	94.80	7.045	
14,800.00	12,644.00	14,936.34	12,759.00	50.85	50.09	-99.915	-3,042.88	351.46	667.89	570.55	97.34	6.861	
14,900.00	12,644.00	15,036.34	12,759.00	51.89	51.14	-99.915	-3,142.88	352.42	667.88	567.99	99.89	6.686	
15,000.00	12,644.00	15,136.34	12,759.00	52.99	52.25	-99.915	-3,242.87	353.39	667.88	565.41	102.46	6.518	
15,100.00	12,644.00	15,236.34	12,759.00	54.12	53.40	-99.915	-3,342.87	354.35	667.88	562.83	105.05	6.358	
15,200.00	12,644.00	15,336.34	12,759.00	55.29	54.59	-99.915	-3,442.86	355.31	667.87	560.23	107.65	6.204	
15,300.00	12,644.00	15,436.34	12,759.00	56.49	55.81	-99.915	-3,542.86	356.27	667.87	557.61	110.25	6.058	
15,400.00	12,644.00	15,536.34	12,759.00	57.72	57.05	-99.915	-3,642.85	357.24	667.86	554.99	112.87	5.917	
15,500.00	12,644.00	15,636.34	12,759.00	58.96	58.32	-99.915	-3,742.85	358.20	667.86	552.36	115.51	5.782	
15,600.00	12,644.00	15,736.34	12,759.00	60.22	59.60	-99.915	-3,842.84	359.16	667.86	549.71	118.15	5.653	
15,700.00	12,644.00	15,836.34	12,759.00	61.50	60.89	-99.915	-3,942.84	360.12	667.85	547.06	120.80	5.529	
15,800.00	12,644.00	15,936.34	12,759.00	62.79	62.20	-99.915	-4,042.83	361.09	667.85	544.40	123.45	5.410	
15,900.00	12,644.00	16,036.34	12,759.00	64.09	63.52	-99.915	-4,142.83	362.05	667.85	541.73	126.12	5.295	
16,000.00	12,644.00	16,136.34	12,759.00	65.40	64.84	-99.916	-4,242.82	363.01	667.84	539.05	128.79	5.185	
16,100.00	12,644.00	16,236.34	12,759.00	66.72	66.18	-99.916	-4,342.82	363.97	667.84	536.36	131.47	5.080	
16,200.00	12,644.00	16,336.34	12,759.00	68.04	67.52	-99.916	-4,442.82	364.94	667.84	533.67	134.16	4.978	
16,300.00	12,644.00	16,436.34	12,759.00	69.38	68.86	-99.916	-4,542.81	365.90	667.83	530.98	136.86	4.880	
16,400.00	12,644.00	16,536.34	12,759.00	70.72	70.22	-99.916	-4,642.81	366.86	667.83	528.27	139.55	4.785	
16,500.00	12,644.00	16,636.34	12,759.00	72.07	71.58	-99.916	-4,742.80	367.82	667.82	525.56	142.26	4.694	
16,600.00	12,644.00	16,736.34	12,759.00	73.42	72.94	-99.916	-4,842.80	368.79	667.82	522.85	144.97	4.607	
16,700.00	12,644.00	16,836.34	12,759.00	74.77	74.30	-99.916	-4,942.79	369.75	667.82	520.13	147.69	4.522	
16,800.00	12,644.00	16,936.34	12,759.00	76.13	75.67	-99.916	-5,042.79	370.71	667.81	517.41	150.41	4.440	
16,900.00	12,644.00	17,036.34	12,759.00	77.49	77.05	-99.916	-5,142.78	371.67	667.81	514.68	153.13	4.361	
17,000.00	12,644.00	17,136.34	12,759.00	78.86	78.42	-99.916	-5,242.78	372.64	667.81	511.95	155.86	4.285	
17,100.00	12,644.00	17,236.34	12,759.00	80.23	79.80	-99.916	-5,342.77	373.60	667.80	509.21	158.59	4.211	
17,200.00	12,644.00	17,336.34	12,759.00	81.60	81.19	-99.916	-5,442.77	374.56	667.80	506.47	161.33	4.139	
17,300.00	12,644.00	17,436.34	12,759.00	82.98	82.57	-99.916	-5,542.76	375.52	667.79	503.73	164.07	4.070	
17,400.00	12,644.00	17,536.34	12,759.00	84.36	83.96	-99.916	-5,642.76	376.49	667.79	500.98	166.81	4.003	
17,500.00	12,644.00	17,636.34	12,759.00	85.74	85.34	-99.916	-5,742.76	377.45	667.79	498.23	169.56	3.938	
17,600.00	12,644.00	17,736.34	12,759.00	87.12	86.73	-99.916	-5,842.75	378.41	667.78	495.48	172.31	3.876	
17,700.00	12,644.00	17,836.34	12,759.00	88.51	88.13	-99.916	-5,942.75	379.37	667.78	492.72	175.06	3.815	
17,800.00	12,644.00	17,936.34	12,759.00	89.89	89.52	-99.917	-6,042.74	380.34	667.78	489.96	177.81	3.755	
17,900.00	12,644.00	18,036.34	12,759.00	91.28	90.92	-99.917	-6,142.74	381.30	667.77	487.20	180.57	3.698	
18,000.00	12,644.00	18,136.34	12,759.00	92.67	92.31	-99.917	-6,242.73	382.26	667.77	484.44	183.33	3.642	
18,100.00	12,644.00	18,236.34	12,759.00	94.07	93.71	-99.917	-6,342.73	383.22	667.77	481.67	186.10	3.588	
18,200.00	12,644.00	18,336.34	12,759.00	95.46	95.11	-99.917	-6,442.72	384.18	667.76	478.90	188.86	3.536	
18,300.00	12,644.00	18,436.34	12,759.00	96.85	96.51	-99.917	-6,542.72	385.15	667.76	476.13	191.63	3.485	
18,400.00	12,644.00	18,536.34	12,759.00	98.25	97.91	-99.917	-6,642.71	386.11	667.75	473.36	194.40	3.435	
18,500.00	12,644.00	18,636.34	12,759.00	99.65	99.32	-99.917	-6,742.71	387.07	667.75	470.58	197.17	3.387	
18,600.00	12,644.00	18,736.34	12,759.00	101.05	100.72	-99.917	-6,842.70	388.03	667.75	467.80	199.95	3.340	
18,700.00	12,644.00	18,836.34	12,759.00	102.45	102.13	-99.917	-6,942.70	389.00	667.74	465.02	202.72	3.294	
18,800.00	12,644.00	18,936.34	12,759.00	103.85	103.53	-99.917	-7,042.70	389.96	667.74	462.24	205.50	3.249	
18,900.00	12,644.00	19,036.34	12,759.00	105.25	104.94	-99.917	-7,142.69	390.92	667.74	459.46	208.28	3.206	
19,000.00	12,644.00	19,136.34	12,759.00	106.65	106.35	-99.917	-7,242.69	391.88	667.73	456.67	211.06	3.164	
19,100.00	12,644.00	19,236.34	12,759.00	108.06	107.76	-99.917	-7,342.68	392.85	667.73	453.89	213.84	3.123	
19,200.00	12,644.00	19,336.34	12,759.00	109.46	109.17	-99.917	-7,442.68	393.81	667.73	451.10	216.63	3.082	
19,300.00	12,644.00	19,436.34	12,759.00	110.87	110.58	-99.917	-7,542.67	394.77	667.72	448.31	219.41	3.043	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 433H - OH - Plan 1 08-31-22												Offset Site Error:	0.00 usft				
Survey Program: 0-MWD+HRGM				Offset				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					
19,400.00	12,644.00	19,536.34	12,759.00	112.28	111.99	-99.917	-7,642.67	395.73	667.72	445.52	222.20	3.005					
19,500.00	12,644.00	19,636.34	12,759.00	113.68	113.40	-99.917	-7,742.66	396.70	667.71	442.73	224.99	2.968					
19,600.00	12,644.00	19,736.34	12,759.00	115.09	114.81	-99.918	-7,842.66	397.66	667.71	439.94	227.78	2.931					
19,700.00	12,644.00	19,836.34	12,759.00	116.50	116.22	-99.918	-7,942.65	398.62	667.71	437.14	230.57	2.896					
19,800.00	12,644.00	19,936.34	12,759.00	117.91	117.64	-99.918	-8,042.65	399.58	667.70	434.35	233.36	2.861					
19,900.00	12,644.00	20,036.34	12,759.00	119.32	119.05	-99.918	-8,142.64	400.55	667.70	431.55	236.15	2.827					
20,000.00	12,644.00	20,136.34	12,759.00	120.73	120.47	-99.918	-8,242.64	401.51	667.70	428.75	238.95	2.794					
20,100.00	12,644.00	20,236.34	12,759.00	122.15	121.88	-99.918	-8,342.63	402.47	667.69	425.95	241.74	2.762					
20,200.00	12,644.00	20,336.34	12,759.00	123.56	123.30	-99.918	-8,442.63	403.43	667.69	423.15	244.54	2.730					
20,300.00	12,644.00	20,436.34	12,759.00	124.97	124.71	-99.918	-8,542.63	404.40	667.69	420.35	247.34	2.700					
20,400.00	12,644.00	20,536.34	12,759.00	126.38	126.13	-99.918	-8,642.62	405.36	667.68	417.55	250.14	2.669					
20,500.00	12,644.00	20,636.34	12,759.00	127.80	127.55	-99.918	-8,742.62	406.32	667.68	414.74	252.93	2.640					
20,600.00	12,644.00	20,736.34	12,759.00	129.21	128.96	-99.918	-8,842.61	407.28	667.67	411.94	255.74	2.611					
20,700.00	12,644.00	20,836.34	12,759.00	130.63	130.38	-99.918	-8,942.61	408.25	667.67	409.13	258.54	2.582					
20,800.00	12,644.00	20,936.34	12,759.00	132.04	131.80	-99.918	-9,042.60	409.21	667.67	406.33	261.34	2.555					
20,900.00	12,644.00	21,036.34	12,759.00	133.46	133.22	-99.918	-9,142.60	410.17	667.66	403.52	264.14	2.528					
21,000.00	12,644.00	21,136.34	12,759.00	134.88	134.64	-99.918	-9,242.59	411.13	667.66	400.71	266.95	2.501					
21,100.00	12,644.00	21,236.34	12,759.00	136.29	136.06	-99.918	-9,342.59	412.10	667.66	397.90	269.75	2.475					
21,200.00	12,644.00	21,336.34	12,759.00	137.71	137.48	-99.918	-9,442.58	413.06	667.65	395.10	272.56	2.450					
21,300.00	12,644.00	21,436.34	12,759.00	139.13	138.90	-99.918	-9,542.58	414.02	667.65	392.29	275.36	2.425					
21,400.00	12,644.00	21,536.34	12,759.00	140.54	140.32	-99.918	-9,642.57	414.98	667.65	389.47	278.17	2.400					
21,500.00	12,644.00	21,636.34	12,759.00	141.96	141.74	-99.919	-9,742.57	415.94	667.64	386.66	280.98	2.376					
21,600.00	12,644.00	21,736.34	12,759.00	143.38	143.16	-99.919	-9,842.57	416.91	667.64	383.85	283.79	2.353					
21,700.00	12,644.00	21,836.34	12,759.00	144.80	144.58	-99.919	-9,942.56	417.87	667.63	381.04	286.60	2.330					
21,800.00	12,644.00	21,936.34	12,759.00	146.22	146.00	-99.919	-10,042.56	418.83	667.63	378.23	289.41	2.307					
21,900.00	12,644.00	22,036.34	12,759.00	147.64	147.43	-99.919	-10,142.55	419.79	667.63	375.41	292.22	2.285					
21,986.64	12,644.00	22,122.98	12,759.00	148.87	148.66	-99.919	-10,229.18	420.63	667.62	372.97	294.65	2.266					
22,000.00	12,644.00	22,125.24	12,759.00	149.06	148.69	-99.919	-10,231.45	420.65	667.72	372.81	294.90	2.264 SF					
22,100.00	12,644.00	22,125.24	12,759.00	150.48	148.69	-99.919	-10,231.45	420.65	676.80	383.45	293.35	2.307					
22,199.47	12,644.00	22,125.24	12,759.00	151.89	148.69	-99.919	-10,231.45	420.65	700.04	413.49	286.54	2.443					

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 512H - OH - Plan 1 08-31-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 1.00 usft
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	1.00	1.00	1.00	-90.471	-9.86	-1,200.10	1,200.14				
100.00	100.00	99.00	100.00	1.08	1.08	-90.471	-9.86	-1,200.10	1,200.14	1,197.97	2.17	553.906	
200.00	200.00	199.00	200.00	1.60	1.59	-90.471	-9.86	-1,200.10	1,200.14	1,196.95	3.19	376.130	
300.00	300.00	299.00	300.00	2.01	2.01	-90.471	-9.86	-1,200.10	1,200.14	1,196.13	4.01	298.922	
400.00	400.00	399.00	400.00	2.35	2.35	-90.471	-9.86	-1,200.10	1,200.14	1,195.44	4.70	255.257	
500.00	500.00	499.00	500.00	2.65	2.65	-90.471	-9.86	-1,200.10	1,200.14	1,194.84	5.31	226.222	
600.00	600.00	599.00	600.00	2.93	2.92	-90.471	-9.86	-1,200.10	1,200.14	1,194.29	5.85	205.111	
700.00	700.00	699.00	700.00	3.18	3.18	-90.471	-9.86	-1,200.10	1,200.14	1,193.79	6.35	188.862	
800.00	800.00	799.00	800.00	3.41	3.41	-90.471	-9.86	-1,200.10	1,200.14	1,193.32	6.82	175.848	
900.00	900.00	899.00	900.00	3.64	3.63	-90.471	-9.86	-1,200.10	1,200.14	1,192.87	7.27	165.117	
1,000.00	1,000.00	999.00	1,000.00	3.85	3.84	-90.471	-9.86	-1,200.10	1,200.14	1,192.45	7.69	156.068	
1,100.00	1,100.00	1,099.00	1,100.00	4.05	4.05	-90.471	-9.86	-1,200.10	1,200.14	1,192.05	8.09	148.300	
1,200.00	1,200.00	1,199.00	1,200.00	4.24	4.24	-90.471	-9.86	-1,200.10	1,200.14	1,191.66	8.48	141.534	
1,300.00	1,300.00	1,299.00	1,300.00	4.43	4.43	-90.471	-9.86	-1,200.10	1,200.14	1,191.29	8.85	135.572	
1,400.00	1,400.00	1,399.00	1,400.00	4.61	4.61	-90.471	-9.86	-1,200.10	1,200.14	1,190.93	9.21	130.263	
1,500.00	1,500.00	1,499.00	1,500.00	4.78	4.78	-90.471	-9.86	-1,200.10	1,200.14	1,190.58	9.56	125.497	
1,600.00	1,599.98	1,581.58	1,582.56	4.98	4.94	63.563	-10.86	-1,200.68	1,200.08	1,190.25	9.83	122.102	
1,700.00	1,699.84	1,669.44	1,670.35	5.60	5.07	63.615	-14.04	-1,202.53	1,199.87	1,189.73	10.13	118.443	
1,718.18	1,717.96	1,687.61	1,688.49	5.62	5.09	63.639	-14.80	-1,202.98	1,199.72	1,189.58	10.15	118.243	
1,800.00	1,799.55	1,769.40	1,770.19	5.72	5.21	63.743	-18.22	-1,204.96	1,198.97	1,188.65	10.32	116.210	
1,900.00	1,899.26	1,869.36	1,870.04	5.89	5.38	63.870	-22.39	-1,207.39	1,198.05	1,187.46	10.59	113.130	
2,000.00	1,998.97	1,969.32	1,969.88	6.09	5.57	63.998	-26.56	-1,209.82	1,197.14	1,186.26	10.88	110.033	
2,100.00	2,098.68	2,069.28	2,069.72	6.30	5.78	64.125	-30.74	-1,212.25	1,196.24	1,185.06	11.18	107.035	
2,200.00	2,198.39	2,169.24	2,169.57	6.53	6.00	64.253	-34.91	-1,214.67	1,195.34	1,183.86	11.48	104.140	
2,300.00	2,298.10	2,269.20	2,269.41	6.77	6.23	64.382	-39.08	-1,217.10	1,194.44	1,182.66	11.79	101.351	
2,400.00	2,397.81	2,369.16	2,369.25	7.02	6.46	64.510	-43.26	-1,219.53	1,193.56	1,181.46	12.10	98.666	
2,500.00	2,497.52	2,469.12	2,469.10	7.28	6.71	64.639	-47.43	-1,221.96	1,192.68	1,180.26	12.41	96.087	
2,600.00	2,597.23	2,569.08	2,568.94	7.55	6.96	64.767	-51.60	-1,224.38	1,191.80	1,179.07	12.73	93.610	
2,700.00	2,696.94	2,669.04	2,668.78	7.83	7.23	64.896	-55.77	-1,226.81	1,190.93	1,177.88	13.05	91.234	
2,800.00	2,796.65	2,769.00	2,768.63	8.12	7.49	65.025	-59.95	-1,229.24	1,190.07	1,176.69	13.38	88.955	
2,900.00	2,896.36	2,868.96	2,868.47	8.42	7.76	65.155	-64.12	-1,231.67	1,189.21	1,175.51	13.71	86.770	
3,000.00	2,996.07	2,968.92	2,968.31	8.72	8.04	65.284	-68.29	-1,234.10	1,188.36	1,174.33	14.03	84.675	
3,100.00	3,095.78	3,068.88	3,068.16	9.03	8.32	65.414	-72.47	-1,236.52	1,187.52	1,173.15	14.37	82.667	
3,200.00	3,195.49	3,168.84	3,168.00	9.34	8.61	65.544	-76.64	-1,238.95	1,186.68	1,171.98	14.70	80.743	
3,300.00	3,295.20	3,268.80	3,267.85	9.66	8.90	65.674	-80.81	-1,241.38	1,185.85	1,170.82	15.03	78.898	
3,400.00	3,394.91	3,368.76	3,367.69	9.98	9.19	65.804	-84.99	-1,243.81	1,185.02	1,169.66	15.36	77.129	
3,500.00	3,494.62	3,468.72	3,467.53	10.30	9.49	65.934	-89.16	-1,246.23	1,184.20	1,168.50	15.70	75.432	
3,600.00	3,594.33	3,568.68	3,567.38	10.63	9.79	66.065	-93.33	-1,248.66	1,183.39	1,167.35	16.03	73.804	
3,700.00	3,694.04	3,668.64	3,667.22	10.96	10.09	66.196	-97.50	-1,251.09	1,182.58	1,166.21	16.37	72.241	
3,800.00	3,793.75	3,768.60	3,767.06	11.29	10.39	66.327	-101.68	-1,253.52	1,181.78	1,165.07	16.71	70.741	
3,900.00	3,893.47	3,868.56	3,866.91	11.63	10.70	66.458	-105.85	-1,255.95	1,180.98	1,163.94	17.04	69.301	
4,000.00	3,993.18	3,968.52	3,966.75	11.97	11.00	66.589	-110.02	-1,258.37	1,180.19	1,162.82	17.38	67.916	
4,100.00	4,092.89	4,068.48	4,066.59	12.31	11.31	66.721	-114.20	-1,260.80	1,179.41	1,161.70	17.71	66.586	
4,200.00	4,192.60	4,168.44	4,166.44	12.65	11.62	66.852	-118.37	-1,263.23	1,178.63	1,160.58	18.05	65.306	
4,300.00	4,292.31	4,268.40	4,266.28	13.00	11.93	66.984	-122.54	-1,265.66	1,177.86	1,159.48	18.38	64.075	
4,400.00	4,392.02	4,368.36	4,366.13	13.34	12.25	67.116	-126.71	-1,268.09	1,177.10	1,158.38	18.72	62.890	
4,500.00	4,491.73	4,468.33	4,465.97	13.69	12.56	67.248	-130.89	-1,270.51	1,176.34	1,157.29	19.05	61.749	
4,600.00	4,591.44	4,568.29	4,565.81	14.04	12.88	67.381	-135.06	-1,272.94	1,175.59	1,156.20	19.38	60.649	
4,700.00	4,691.15	4,668.25	4,665.66	14.39	13.19	67.513	-139.23	-1,275.37	1,174.84	1,155.13	19.72	59.590	
4,800.00	4,790.86	4,768.21	4,765.50	14.74	13.51	67.646	-143.41	-1,277.80	1,174.10	1,154.06	20.05	58.568	
4,900.00	4,890.57	4,868.17	4,865.34	15.10	13.83	67.779	-147.58	-1,280.22	1,173.37	1,152.99	20.38	57.582	
5,000.00	4,990.28	4,968.13	4,965.19	15.45	14.15	67.912	-151.75	-1,282.65	1,172.64	1,151.94	20.71	56.631	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 512H - OH - Plan 1 08-31-22												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,089.99	5,068.09	5,065.03	15.81	14.47	68.045	-155.93	-1,285.08	1,171.92	1,150.89	21.04	55.713	
5,200.00	5,189.70	5,168.05	5,164.87	16.16	14.79	68.178	-160.10	-1,287.51	1,171.21	1,149.85	21.36	54.825	
5,300.00	5,289.41	5,268.01	5,264.72	16.52	15.11	68.312	-164.27	-1,289.94	1,170.50	1,148.81	21.69	53.968	
5,400.00	5,389.12	5,367.97	5,364.56	16.88	15.43	68.445	-168.44	-1,292.36	1,169.80	1,147.79	22.01	53.139	
5,500.00	5,488.83	5,467.93	5,464.40	17.24	15.76	68.579	-172.62	-1,294.79	1,169.11	1,146.77	22.34	52.337	
5,600.00	5,588.54	5,567.89	5,564.25	17.59	16.08	68.713	-176.79	-1,297.22	1,168.42	1,145.76	22.66	51.562	
5,700.00	5,688.25	5,667.85	5,664.09	17.95	16.41	68.847	-180.96	-1,299.65	1,167.74	1,144.75	22.98	50.811	
5,800.00	5,787.96	5,767.81	5,763.94	18.32	16.73	68.982	-185.14	-1,302.07	1,167.06	1,143.76	23.30	50.083	
5,900.00	5,887.67	5,867.77	5,863.78	18.68	17.06	69.116	-189.31	-1,304.50	1,166.39	1,142.77	23.62	49.379	
6,000.00	5,987.38	5,967.73	5,963.62	19.04	17.38	69.251	-193.48	-1,306.93	1,165.73	1,141.79	23.94	48.696	
6,100.00	6,087.09	6,067.69	6,063.47	19.40	17.71	69.385	-197.65	-1,309.36	1,165.07	1,140.82	24.25	48.035	
6,200.00	6,186.80	6,167.65	6,163.31	19.76	18.03	69.520	-201.83	-1,311.79	1,164.42	1,139.85	24.57	47.393	
6,300.00	6,286.51	6,267.61	6,263.15	20.13	18.36	69.655	-206.00	-1,314.21	1,163.78	1,138.89	24.88	46.770	
6,400.00	6,386.22	6,367.57	6,363.00	20.49	18.69	69.790	-210.17	-1,316.64	1,163.14	1,137.95	25.19	46.166	
6,500.00	6,485.93	6,467.53	6,462.84	20.86	19.02	69.926	-214.35	-1,319.07	1,162.51	1,137.01	25.51	45.579	
6,600.00	6,585.64	6,567.49	6,562.68	21.22	19.34	70.061	-218.52	-1,321.50	1,161.89	1,136.07	25.81	45.010	
6,700.00	6,685.35	6,667.45	6,662.53	21.59	19.67	70.197	-222.69	-1,323.92	1,161.27	1,135.15	26.12	44.456	
6,800.00	6,785.06	6,767.41	6,762.37	21.95	20.00	70.333	-226.87	-1,326.35	1,160.66	1,134.23	26.43	43.918	
6,900.00	6,884.77	6,867.37	6,862.22	22.32	20.33	70.469	-231.04	-1,328.78	1,160.05	1,133.32	26.73	43.395	
7,000.00	6,984.48	6,967.33	6,962.06	22.68	20.66	70.605	-235.21	-1,331.21	1,159.46	1,132.42	27.04	42.887	
7,100.00	7,084.19	7,067.29	7,061.90	23.05	20.99	70.741	-239.38	-1,333.64	1,158.86	1,131.53	27.34	42.392	
7,200.00	7,183.90	7,167.25	7,161.75	23.42	21.32	70.877	-243.56	-1,336.06	1,158.28	1,130.64	27.64	41.911	
7,300.00	7,283.61	7,267.21	7,261.59	23.78	21.65	71.014	-247.73	-1,338.49	1,157.70	1,129.77	27.93	41.443	
7,400.00	7,383.32	7,367.17	7,361.43	24.15	21.98	71.150	-251.90	-1,340.92	1,157.13	1,128.90	28.23	40.987	
7,500.00	7,483.03	7,467.13	7,461.28	24.52	22.31	71.287	-256.08	-1,343.35	1,156.56	1,128.04	28.53	40.543	
7,600.00	7,582.74	7,567.09	7,561.12	24.89	22.64	71.424	-260.25	-1,345.77	1,156.01	1,127.19	28.82	40.110	
7,700.00	7,682.45	7,667.05	7,660.96	25.25	22.97	71.561	-264.42	-1,348.20	1,155.45	1,126.34	29.11	39.689	
7,800.00	7,782.16	7,767.01	7,760.81	25.62	23.30	71.698	-268.60	-1,350.63	1,154.91	1,125.51	29.40	39.278	
7,900.00	7,881.87	7,866.97	7,860.65	25.99	23.63	71.835	-272.77	-1,353.06	1,154.37	1,124.68	29.69	38.878	
8,000.00	7,981.58	7,966.93	7,960.49	26.36	23.96	71.973	-276.94	-1,355.49	1,153.84	1,123.86	29.98	38.487	
8,100.00	8,081.29	8,066.89	8,060.34	26.73	24.29	72.110	-281.11	-1,357.91	1,153.31	1,123.05	30.27	38.106	
8,200.00	8,181.00	8,166.85	8,160.18	27.10	24.63	72.248	-285.29	-1,360.34	1,152.80	1,122.25	30.55	37.735	
8,300.00	8,280.71	8,266.81	8,260.03	27.47	24.96	72.386	-289.46	-1,362.77	1,152.28	1,121.45	30.83	37.372	
8,400.00	8,380.42	8,366.78	8,359.87	27.84	25.29	72.524	-293.63	-1,365.20	1,151.78	1,120.66	31.11	37.018	
8,500.00	8,480.13	8,466.74	8,459.71	28.21	25.62	72.662	-297.81	-1,367.62	1,151.28	1,119.89	31.39	36.673	
8,600.00	8,579.84	8,566.70	8,559.56	28.58	25.95	72.800	-301.98	-1,370.05	1,150.79	1,119.12	31.67	36.336	
8,700.00	8,679.55	8,666.66	8,659.40	28.95	26.29	72.938	-306.15	-1,372.48	1,150.30	1,118.35	31.95	36.006	
8,800.00	8,779.26	8,766.62	8,759.24	29.32	26.62	73.076	-310.32	-1,374.91	1,149.82	1,117.60	32.22	35.684	
8,900.00	8,878.97	8,866.58	8,859.09	29.69	26.95	73.215	-314.50	-1,377.34	1,149.35	1,116.86	32.50	35.369	
9,000.00	8,978.68	8,966.54	8,958.93	30.06	27.29	73.353	-318.67	-1,379.76	1,148.89	1,116.12	32.77	35.062	
9,100.00	9,078.39	9,066.50	9,058.77	30.43	27.62	73.492	-322.84	-1,382.19	1,148.43	1,115.39	33.04	34.761	
9,200.00	9,178.10	9,166.46	9,158.62	30.80	27.95	73.631	-327.02	-1,384.62	1,147.98	1,114.67	33.31	34.467	
9,300.00	9,277.81	9,266.42	9,258.46	31.17	28.28	73.770	-331.19	-1,387.05	1,147.53	1,113.96	33.57	34.180	
9,400.00	9,377.52	9,366.38	9,358.31	31.54	28.62	73.909	-335.36	-1,389.47	1,147.09	1,113.26	33.84	33.899	
9,500.00	9,477.23	9,466.34	9,458.15	31.91	28.95	74.048	-339.54	-1,391.90	1,146.66	1,112.56	34.10	33.624	
9,600.00	9,576.94	9,566.30	9,557.99	32.29	29.28	74.187	-343.71	-1,394.33	1,146.24	1,111.87	34.37	33.355	
9,700.00	9,676.65	9,666.26	9,657.84	32.66	29.62	74.326	-347.88	-1,396.76	1,145.82	1,111.19	34.63	33.091	
9,800.00	9,776.36	9,766.22	9,757.68	33.03	29.95	74.466	-352.05	-1,399.19	1,145.41	1,110.52	34.89	32.833	
9,900.00	9,876.07	9,866.18	9,857.52	33.40	30.29	74.605	-356.23	-1,401.61	1,145.01	1,109.86	35.14	32.581	
10,000.00	9,975.78	9,966.14	9,957.37	33.77	30.62	74.745	-360.40	-1,404.04	1,144.61	1,109.21	35.40	32.333	
10,100.00	10,075.49	10,066.10	10,057.21	34.14	30.95	74.885	-364.57	-1,406.47	1,144.22	1,108.56	35.66	32.091	
10,200.00	10,175.20	10,166.06	10,157.05	34.52	31.29	75.025	-368.75	-1,408.90	1,143.83	1,107.92	35.91	31.854	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 512H - OH - Plan 1 08-31-22												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre	Distance	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,274.91	10,266.02	10,256.90	34.89	31.62	75.165	-372.92	-1,411.32	1,143.46	1,107.30	36.16	31.621	
10,400.00	10,374.62	10,365.98	10,356.74	35.26	31.96	75.305	-377.09	-1,413.75	1,143.09	1,106.67	36.41	31.393	
10,500.00	10,474.33	10,465.94	10,456.58	35.63	32.29	75.445	-381.27	-1,416.18	1,142.72	1,106.06	36.66	31.170	
10,600.00	10,574.04	10,565.90	10,556.43	36.01	32.62	75.585	-385.44	-1,418.61	1,142.37	1,105.46	36.91	30.951	
10,700.00	10,673.75	10,665.86	10,656.27	36.38	32.96	75.725	-389.61	-1,421.04	1,142.02	1,104.86	37.16	30.736	
10,800.00	10,773.46	10,765.82	10,756.12	36.75	33.29	75.865	-393.78	-1,423.46	1,141.67	1,104.27	37.40	30.525	
10,900.00	10,873.18	10,865.78	10,855.96	37.12	33.63	76.006	-397.96	-1,425.89	1,141.34	1,103.69	37.64	30.319	
11,000.00	10,972.89	10,965.74	10,955.80	37.50	33.96	76.146	-402.13	-1,428.32	1,141.01	1,103.12	37.89	30.116	
11,100.00	11,072.60	11,065.70	11,055.65	37.87	34.30	76.287	-406.30	-1,430.75	1,140.69	1,102.56	38.13	29.917	
11,200.00	11,172.31	11,165.66	11,155.49	38.24	34.63	76.428	-410.48	-1,433.18	1,140.37	1,102.00	38.37	29.722	
11,300.00	11,272.02	11,265.62	11,255.33	38.62	34.97	76.568	-414.65	-1,435.60	1,140.06	1,101.46	38.61	29.531	
11,381.30	11,353.08	11,346.89	11,336.50	38.92	35.24	76.683	-418.04	-1,437.58	1,139.82	1,101.03	38.79	29.383	
11,400.00	11,371.73	11,365.58	11,355.18	38.98	35.30	76.706	-418.82	-1,438.03	1,139.78	1,100.94	38.83	29.352	
11,418.39	11,390.08	11,383.97	11,373.54	39.05	35.36	76.722	-419.59	-1,438.48	1,139.76	1,100.89	38.88	29.319 CC	
11,500.00	11,471.59	11,465.58	11,455.06	39.34	35.64	76.734	-423.00	-1,440.46	1,140.03	1,100.93	39.10	29.156	
11,599.47	11,571.04	11,565.00	11,554.36	39.49	35.97	-77.410	-427.15	-1,442.87	1,141.08	1,101.70	39.38	28.973	
11,600.00	11,571.57	11,565.52	11,554.89	39.49	35.97	-77.412	-427.17	-1,442.89	1,141.09	1,101.70	39.39	28.972	
11,700.00	11,671.57	11,665.41	11,654.65	39.52	36.31	-77.642	-431.34	-1,445.31	1,142.56	1,102.90	39.66	28.808	
11,800.00	11,771.57	11,765.29	11,754.42	39.52	36.64	-77.872	-435.51	-1,447.74	1,144.05	1,104.11	39.94	28.646	
11,900.00	11,871.57	11,865.17	11,854.19	39.53	36.98	-78.102	-439.68	-1,450.16	1,145.56	1,105.34	40.22	28.483	
12,000.00	11,971.57	11,973.27	11,962.18	39.54	37.33	-78.315	-443.56	-1,452.42	1,146.88	1,106.40	40.49	28.329	
12,099.47	12,071.04	12,082.14	12,071.04	39.54	37.47	-78.360	-444.39	-1,452.90	1,147.15	1,106.59	40.56	28.284	
12,100.00	12,071.57	12,082.66	12,071.57	39.55	37.47	102.194	-444.39	-1,452.90	1,147.15	1,106.59	40.56	28.284	
12,150.00	12,121.50	12,132.60	12,121.50	39.65	37.47	102.256	-444.39	-1,452.90	1,147.62	1,107.10	40.52	28.326	
12,200.00	12,171.05	12,182.15	12,171.05	39.91	37.47	102.435	-444.39	-1,452.90	1,149.04	1,108.63	40.40	28.439	
12,250.00	12,219.84	12,230.94	12,219.84	40.20	37.48	102.714	-444.39	-1,452.90	1,151.46	1,111.24	40.22	28.631	
12,300.00	12,267.50	12,278.59	12,267.50	40.50	37.48	103.067	-444.39	-1,452.90	1,154.98	1,115.01	39.97	28.895	
12,350.00	12,313.66	12,324.76	12,313.66	40.80	37.48	103.459	-444.39	-1,452.90	1,159.73	1,120.04	39.69	29.223	
12,400.00	12,357.98	12,369.07	12,357.98	41.09	37.49	103.847	-444.39	-1,452.90	1,165.85	1,126.47	39.38	29.603	
12,450.00	12,400.11	12,411.20	12,400.11	41.38	37.49	104.186	-444.39	-1,452.90	1,173.50	1,134.41	39.09	30.020	
12,500.00	12,439.74	12,450.83	12,439.74	41.66	37.49	104.421	-444.39	-1,452.90	1,182.85	1,144.01	38.84	30.454	
12,550.00	12,476.56	12,487.65	12,476.56	41.92	37.49	104.501	-444.39	-1,452.90	1,194.04	1,155.38	38.66	30.886	
12,600.00	12,510.29	12,521.39	12,510.29	42.16	37.49	104.369	-444.39	-1,452.90	1,207.22	1,168.65	38.57	31.299	
12,650.00	12,540.68	12,578.22	12,567.11	42.39	37.58	104.987	-445.23	-1,452.89	1,222.43	1,183.80	38.63	31.647	
12,700.00	12,567.50	12,907.15	12,872.83	42.58	39.34	112.922	-553.81	-1,451.80	1,235.56	1,194.04	41.52	29.760	
12,750.00	12,590.54	13,448.20	13,109.00	42.76	41.11	112.742	-1,018.37	-1,447.14	1,235.13	1,181.75	53.38	23.139	
12,800.00	12,609.63	13,494.39	13,109.00	42.91	41.15	112.714	-1,064.57	-1,446.67	1,227.22	1,173.34	53.89	22.773	
12,850.00	12,624.61	13,542.08	13,109.00	43.03	41.19	112.655	-1,112.25	-1,446.20	1,221.19	1,166.73	54.46	22.424	
12,900.00	12,635.39	13,590.89	13,109.00	43.12	41.24	112.591	-1,161.06	-1,445.71	1,216.94	1,161.87	55.07	22.100	
12,950.00	12,641.87	13,640.45	13,109.00	43.19	41.29	112.545	-1,210.62	-1,445.21	1,214.41	1,158.69	55.72	21.794	
12,999.47	12,644.00	13,689.86	13,109.00	43.23	41.35	112.530	-1,260.03	-1,444.71	1,213.58	1,157.19	56.39	21.522	
13,000.00	12,644.00	13,690.39	13,109.00	43.24	41.35	112.530	-1,260.55	-1,444.71	1,213.57	1,157.18	56.40	21.519	
13,100.00	12,644.00	13,790.39	13,109.00	43.31	41.49	112.531	-1,360.55	-1,443.70	1,213.54	1,155.73	57.81	20.993	
13,200.00	12,644.00	13,890.39	13,109.00	43.39	41.66	112.531	-1,460.54	-1,442.70	1,213.50	1,154.22	59.29	20.469	
13,300.00	12,644.00	13,990.39	13,109.00	43.50	41.85	112.532	-1,560.54	-1,441.69	1,213.47	1,152.62	60.85	19.942	
13,400.00	12,644.00	14,090.39	13,109.00	43.63	42.08	112.533	-1,660.53	-1,440.69	1,213.43	1,150.94	62.49	19.417	
13,500.00	12,644.00	14,190.39	13,109.00	43.78	42.34	112.533	-1,760.53	-1,439.69	1,213.40	1,149.19	64.21	18.897	
13,600.00	12,644.00	14,290.39	13,109.00	43.96	42.66	112.534	-1,860.52	-1,438.68	1,213.36	1,147.37	66.00	18.385	
13,700.00	12,644.00	14,390.39	13,109.00	44.18	43.02	112.535	-1,960.52	-1,437.68	1,213.33	1,145.48	67.85	17.884	
13,800.00	12,644.00	14,490.39	13,109.00	44.44	43.44	112.535	-2,060.51	-1,436.67	1,213.29	1,143.54	69.75	17.395	
13,900.00	12,644.00	14,590.39	13,109.00	44.74	43.92	112.536	-2,160.51	-1,435.67	1,213.26	1,141.55	71.71	16.920	
14,000.00	12,644.00	14,690.39	13,109.00	45.11	44.47	112.537	-2,260.50	-1,434.66	1,213.22	1,139.51	73.71	16.459	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 512H - OH - Plan 1 08-31-22												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,100.00	12,644.00	14,790.39	13,109.00	45.54	45.10	112.537	-2,360.50	-1,433.66	1,213.19	1,137.42	75.76	16.013	
14,200.00	12,644.00	14,890.39	13,109.00	46.05	45.80	112.538	-2,460.49	-1,432.66	1,213.15	1,135.30	77.85	15.582	
14,300.00	12,644.00	14,990.39	13,109.00	46.65	46.56	112.539	-2,560.49	-1,431.65	1,213.12	1,133.13	79.98	15.167	
14,400.00	12,644.00	15,090.39	13,109.00	47.33	47.40	112.540	-2,660.48	-1,430.65	1,213.08	1,130.93	82.15	14.767	
14,500.00	12,644.00	15,190.39	13,109.00	48.09	48.31	112.540	-2,760.48	-1,429.64	1,213.05	1,128.70	84.34	14.382	
14,600.00	12,644.00	15,290.39	13,109.00	48.94	49.27	112.541	-2,860.47	-1,428.64	1,213.01	1,126.44	86.57	14.012	
14,700.00	12,644.00	15,390.39	13,109.00	49.86	50.28	112.542	-2,960.47	-1,427.63	1,212.98	1,124.15	88.82	13.656	
14,800.00	12,644.00	15,490.39	13,109.00	50.85	51.33	112.542	-3,060.46	-1,426.63	1,212.94	1,121.84	91.10	13.314	
14,900.00	12,644.00	15,590.39	13,109.00	51.89	52.43	112.543	-3,160.46	-1,425.63	1,212.91	1,119.50	93.40	12.986	
15,000.00	12,644.00	15,690.39	13,109.00	52.99	53.56	112.544	-3,260.45	-1,424.62	1,212.87	1,117.14	95.73	12.670	
15,100.00	12,644.00	15,790.39	13,109.00	54.12	54.72	112.544	-3,360.45	-1,423.62	1,212.83	1,114.76	98.07	12.367	
15,200.00	12,644.00	15,890.39	13,109.00	55.29	55.91	112.545	-3,460.44	-1,422.61	1,212.80	1,112.36	100.44	12.075	
15,300.00	12,644.00	15,990.39	13,109.00	56.49	57.12	112.546	-3,560.44	-1,421.61	1,212.76	1,109.95	102.82	11.795	
15,400.00	12,644.00	16,090.39	13,109.00	57.72	58.35	112.546	-3,660.43	-1,420.60	1,212.73	1,107.51	105.22	11.526	
15,500.00	12,644.00	16,190.39	13,109.00	58.96	59.59	112.547	-3,760.43	-1,419.60	1,212.69	1,105.06	107.63	11.267	
15,600.00	12,644.00	16,290.39	13,109.00	60.22	60.85	112.548	-3,860.42	-1,418.60	1,212.66	1,102.60	110.06	11.018	
15,700.00	12,644.00	16,390.39	13,109.00	61.50	62.13	112.549	-3,960.42	-1,417.59	1,212.62	1,100.13	112.50	10.779	
15,800.00	12,644.00	16,490.39	13,109.00	62.79	63.41	112.549	-4,060.41	-1,416.59	1,212.59	1,097.64	114.95	10.549	
15,900.00	12,644.00	16,590.39	13,109.00	64.09	64.70	112.550	-4,160.41	-1,415.58	1,212.55	1,095.14	117.42	10.327	
16,000.00	12,644.00	16,690.39	13,109.00	65.40	66.01	112.551	-4,260.40	-1,414.58	1,212.52	1,092.63	119.89	10.113	
16,100.00	12,644.00	16,790.39	13,109.00	66.72	67.32	112.551	-4,360.40	-1,413.57	1,212.48	1,090.10	122.38	9.908	
16,200.00	12,644.00	16,890.39	13,109.00	68.04	68.64	112.552	-4,460.39	-1,412.57	1,212.45	1,087.57	124.88	9.709	
16,300.00	12,644.00	16,990.39	13,109.00	69.38	69.97	112.553	-4,560.39	-1,411.57	1,212.41	1,085.03	127.38	9.518	
16,400.00	12,644.00	17,090.39	13,109.00	70.72	71.30	112.553	-4,660.38	-1,410.56	1,212.38	1,082.48	129.89	9.334	
16,500.00	12,644.00	17,190.39	13,109.00	72.07	72.64	112.554	-4,760.38	-1,409.56	1,212.34	1,079.92	132.42	9.156	
16,600.00	12,644.00	17,290.39	13,109.00	73.42	73.98	112.555	-4,860.37	-1,408.55	1,212.31	1,077.36	134.95	8.984	
16,700.00	12,644.00	17,390.39	13,109.00	74.77	75.33	112.555	-4,960.37	-1,407.55	1,212.27	1,074.79	137.48	8.818	
16,800.00	12,644.00	17,490.39	13,109.00	76.13	76.68	112.556	-5,060.36	-1,406.54	1,212.24	1,072.21	140.03	8.657	
16,900.00	12,644.00	17,590.39	13,109.00	77.49	78.04	112.557	-5,160.36	-1,405.54	1,212.20	1,069.62	142.58	8.502	
17,000.00	12,644.00	17,690.39	13,109.00	78.86	79.40	112.558	-5,260.35	-1,404.54	1,212.17	1,067.03	145.13	8.352	
17,100.00	12,644.00	17,790.39	13,109.00	80.23	80.76	112.558	-5,360.35	-1,403.53	1,212.13	1,064.43	147.70	8.207	
17,200.00	12,644.00	17,890.39	13,109.00	81.60	82.13	112.559	-5,460.34	-1,402.53	1,212.09	1,061.83	150.26	8.066	
17,300.00	12,644.00	17,990.39	13,109.00	82.98	83.50	112.560	-5,560.34	-1,401.52	1,212.06	1,059.22	152.84	7.930	
17,400.00	12,644.00	18,090.39	13,109.00	84.36	84.87	112.560	-5,660.33	-1,400.52	1,212.02	1,056.61	155.42	7.799	
17,500.00	12,644.00	18,190.39	13,109.00	85.74	86.25	112.561	-5,760.33	-1,399.51	1,211.99	1,053.99	158.00	7.671	
17,600.00	12,644.00	18,290.39	13,109.00	87.12	87.62	112.562	-5,860.32	-1,398.51	1,211.95	1,051.37	160.59	7.547	
17,700.00	12,644.00	18,390.39	13,109.00	88.51	89.00	112.562	-5,960.32	-1,397.51	1,211.92	1,048.74	163.18	7.427	
17,800.00	12,644.00	18,490.39	13,109.00	89.89	90.39	112.563	-6,060.31	-1,396.50	1,211.88	1,046.11	165.77	7.310	
17,900.00	12,644.00	18,590.39	13,109.00	91.28	91.77	112.564	-6,160.31	-1,395.50	1,211.85	1,043.48	168.37	7.197	
18,000.00	12,644.00	18,690.39	13,109.00	92.67	93.15	112.564	-6,260.30	-1,394.49	1,211.81	1,040.84	170.98	7.088	
18,100.00	12,644.00	18,790.39	13,109.00	94.07	94.54	112.565	-6,360.30	-1,393.49	1,211.78	1,038.19	173.58	6.981	
18,200.00	12,644.00	18,890.39	13,109.00	95.46	95.93	112.566	-6,460.29	-1,392.48	1,211.74	1,035.55	176.19	6.877	
18,300.00	12,644.00	18,990.39	13,109.00	96.85	97.32	112.567	-6,560.29	-1,391.48	1,211.71	1,032.90	178.81	6.777	
18,400.00	12,644.00	19,090.39	13,109.00	98.25	98.71	112.567	-6,660.28	-1,390.48	1,211.67	1,030.25	181.42	6.679	
18,500.00	12,644.00	19,190.39	13,109.00	99.65	100.11	112.568	-6,760.28	-1,389.47	1,211.64	1,027.59	184.04	6.583	
18,600.00	12,644.00	19,290.39	13,109.00	101.05	101.50	112.569	-6,860.27	-1,388.47	1,211.60	1,024.94	186.67	6.491	
18,700.00	12,644.00	19,390.39	13,109.00	102.45	102.90	112.569	-6,960.27	-1,387.46	1,211.57	1,022.28	189.29	6.401	
18,800.00	12,644.00	19,490.39	13,109.00	103.85	104.30	112.570	-7,060.26	-1,386.46	1,211.53	1,019.61	191.92	6.313	
18,900.00	12,644.00	19,590.39	13,109.00	105.25	105.69	112.571	-7,160.26	-1,385.45	1,211.50	1,016.95	194.55	6.227	
19,000.00	12,644.00	19,690.39	13,109.00	106.65	107.09	112.571	-7,260.25	-1,384.45	1,211.46	1,014.28	197.18	6.144	
19,100.00	12,644.00	19,790.39	13,109.00	108.06	108.49	112.572	-7,360.25	-1,383.45	1,211.43	1,011.61	199.82	6.063	
19,200.00	12,644.00	19,890.39	13,109.00	109.46	109.90	112.573	-7,460.24	-1,382.44	1,211.39	1,008.94	202.45	5.984	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 512H - OH - Plan 1 08-31-22													Offset Site Error:	0.00 usft	
Survey Program:		0-MWD+HRGM					Rule Assigned:							Offset Well Error:	1.00 usft
Measured Depth	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation (usft)	Factor			
19,300.00	12,644.00	19,990.39	13,109.00	110.87	111.30	112.573	-7,560.24	-1,381.44	1,211.35	1,006.26	205.09	5.906			
19,400.00	12,644.00	20,090.39	13,109.00	112.28	112.70	112.574	-7,660.23	-1,380.43	1,211.32	1,003.58	207.74	5.831			
19,500.00	12,644.00	20,190.39	13,109.00	113.68	114.11	112.575	-7,760.23	-1,379.43	1,211.28	1,000.91	210.38	5.758			
19,600.00	12,644.00	20,290.39	13,109.00	115.09	115.51	112.576	-7,860.22	-1,378.42	1,211.25	998.23	213.02	5.686			
19,700.00	12,644.00	20,390.39	13,109.00	116.50	116.92	112.576	-7,960.22	-1,377.42	1,211.21	995.54	215.67	5.616			
19,800.00	12,644.00	20,490.39	13,109.00	117.91	118.32	112.577	-8,060.21	-1,376.42	1,211.18	992.86	218.32	5.548			
19,900.00	12,644.00	20,590.39	13,109.00	119.32	119.73	112.578	-8,160.21	-1,375.41	1,211.14	990.17	220.97	5.481			
20,000.00	12,644.00	20,690.39	13,109.00	120.73	121.14	112.578	-8,260.20	-1,374.41	1,211.11	987.49	223.62	5.416			
20,100.00	12,644.00	20,790.39	13,109.00	122.15	122.55	112.579	-8,360.20	-1,373.40	1,211.07	984.80	226.28	5.352			
20,200.00	12,644.00	20,890.39	13,109.00	123.56	123.96	112.580	-8,460.19	-1,372.40	1,211.04	982.11	228.93	5.290			
20,300.00	12,644.00	20,990.39	13,109.00	124.97	125.37	112.580	-8,560.19	-1,371.39	1,211.00	979.41	231.59	5.229			
20,400.00	12,644.00	21,090.39	13,109.00	126.38	126.78	112.581	-8,660.18	-1,370.39	1,210.97	976.72	234.25	5.170			
20,500.00	12,644.00	21,190.39	13,109.00	127.80	128.19	112.582	-8,760.17	-1,369.39	1,210.93	974.03	236.91	5.111			
20,600.00	12,644.00	21,290.39	13,109.00	129.21	129.60	112.582	-8,860.17	-1,368.38	1,210.90	971.33	239.57	5.055			
20,700.00	12,644.00	21,390.39	13,109.00	130.63	131.02	112.583	-8,960.16	-1,367.38	1,210.86	968.63	242.23	4.999			
20,800.00	12,644.00	21,490.39	13,109.00	132.04	132.43	112.584	-9,060.16	-1,366.37	1,210.83	965.93	244.89	4.944			
20,900.00	12,644.00	21,590.39	13,109.00	133.46	133.84	112.585	-9,160.15	-1,365.37	1,210.79	963.23	247.56	4.891			
21,000.00	12,644.00	21,690.39	13,109.00	134.88	135.26	112.585	-9,260.15	-1,364.36	1,210.76	960.53	250.22	4.839			
21,100.00	12,644.00	21,790.39	13,109.00	136.29	136.67	112.586	-9,360.14	-1,363.36	1,210.72	957.83	252.89	4.788			
21,200.00	12,644.00	21,890.39	13,109.00	137.71	138.09	112.587	-9,460.14	-1,362.36	1,210.69	955.13	255.56	4.737			
21,300.00	12,644.00	21,990.39	13,109.00	139.13	139.50	112.587	-9,560.13	-1,361.35	1,210.65	952.42	258.23	4.688			
21,400.00	12,644.00	22,090.39	13,109.00	140.54	140.92	112.588	-9,660.13	-1,360.35	1,210.62	949.72	260.90	4.640			
21,500.00	12,644.00	22,190.39	13,109.00	141.96	142.34	112.589	-9,760.12	-1,359.34	1,210.58	947.01	263.57	4.593			
21,600.00	12,644.00	22,290.39	13,109.00	143.38	143.75	112.589	-9,860.12	-1,358.34	1,210.54	944.30	266.24	4.547			
21,700.00	12,644.00	22,390.39	13,109.00	144.80	145.17	112.590	-9,960.11	-1,357.33	1,210.51	941.60	268.91	4.501			
21,800.00	12,644.00	22,490.39	13,109.00	146.22	146.59	112.591	-10,060.11	-1,356.33	1,210.47	938.89	271.59	4.457			
21,900.00	12,644.00	22,590.39	13,109.00	147.64	148.01	112.591	-10,160.10	-1,355.33	1,210.44	936.18	274.26	4.413			
22,000.00	12,644.00	22,690.39	13,109.00	149.06	149.42	112.592	-10,260.10	-1,354.32	1,210.40	933.47	276.94	4.371			
22,100.00	12,644.00	22,790.39	13,109.00	150.48	150.84	112.593	-10,360.09	-1,353.32	1,210.37	930.75	279.61	4.329			
22,199.47	12,644.00	22,889.86	13,109.00	151.89	152.25	112.594	-10,459.56	-1,352.32	1,210.33	928.06	282.28	4.288 ES, SF			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 513H - OH - Plan 1 08-31-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	1.00	1.00	1.00	89.638	0.19	30.09	30.11				
100.00	100.00	99.00	100.00	1.08	1.08	89.638	0.19	30.09	30.09	27.92	2.17	13.888	
200.00	200.00	199.00	200.00	1.60	1.59	89.638	0.19	30.09	30.09	26.90	3.19	9.431	
300.00	300.00	299.00	300.00	2.01	2.01	89.638	0.19	30.09	30.09	26.08	4.01	7.495	
400.00	400.00	399.00	400.00	2.35	2.35	89.638	0.19	30.09	30.09	25.39	4.70	6.400	
500.00	500.00	499.00	500.00	2.65	2.65	89.638	0.19	30.09	30.09	24.79	5.31	5.672	
600.00	600.00	599.00	600.00	2.93	2.92	89.638	0.19	30.09	30.09	24.24	5.85	5.143	
700.00	700.00	699.00	700.00	3.18	3.18	89.638	0.19	30.09	30.09	23.74	6.35	4.735	
800.00	800.00	799.00	800.00	3.41	3.41	89.638	0.19	30.09	30.09	23.27	6.82	4.409	
900.00	900.00	899.00	900.00	3.64	3.63	89.638	0.19	30.09	30.09	22.82	7.27	4.140	
1,000.00	1,000.00	999.00	1,000.00	3.85	3.84	89.638	0.19	30.09	30.09	22.40	7.69	3.913	
1,100.00	1,100.00	1,099.00	1,100.00	4.05	4.05	89.638	0.19	30.09	30.09	22.00	8.09	3.718	
1,200.00	1,200.00	1,199.00	1,200.00	4.24	4.24	89.638	0.19	30.09	30.09	21.61	8.48	3.549	
1,300.00	1,300.00	1,299.00	1,300.00	4.43	4.43	89.638	0.19	30.09	30.09	21.24	8.85	3.399	
1,400.00	1,400.00	1,399.00	1,400.00	4.61	4.61	89.638	0.19	30.09	30.09	20.88	9.21	3.266	
1,500.00	1,500.00	1,499.00	1,500.00	4.78	4.78	89.638	0.19	30.09	30.09	20.53	9.56	3.147 CC, ES	
1,600.00	1,599.98	1,598.82	1,599.80	4.98	4.97	-116.105	-1.49	30.39	31.15	21.33	9.82	3.172	
1,700.00	1,699.84	1,698.72	1,699.62	5.60	5.07	-117.114	-5.55	31.10	34.17	24.05	10.12	3.376	
1,718.18	1,717.96	1,716.88	1,717.76	5.62	5.10	-117.797	-6.30	31.24	34.89	24.74	10.15	3.437	
1,800.00	1,799.55	1,798.61	1,799.41	5.72	5.23	-120.933	-9.69	31.84	38.35	27.99	10.36	3.702	
1,900.00	1,899.26	1,898.49	1,899.20	5.89	5.41	-124.065	-13.84	32.57	42.70	32.04	10.66	4.007	
2,000.00	1,998.97	1,998.37	1,999.00	6.09	5.60	-126.612	-17.98	33.30	47.15	36.18	10.97	4.299	
2,100.00	2,098.68	2,098.25	2,098.79	6.30	5.80	-128.716	-22.12	34.03	51.68	40.39	11.29	4.579	
2,200.00	2,198.39	2,198.13	2,198.58	6.53	6.01	-130.480	-26.26	34.76	56.27	44.66	11.61	4.846	
2,300.00	2,298.10	2,298.01	2,298.37	6.77	6.24	-131.976	-30.41	35.49	60.90	48.95	11.95	5.097	
2,400.00	2,397.81	2,397.89	2,398.17	7.02	6.47	-133.260	-34.55	36.22	65.57	53.28	12.29	5.335	
2,500.00	2,497.52	2,497.77	2,497.96	7.28	6.71	-134.373	-38.69	36.96	70.27	57.62	12.64	5.557	
2,600.00	2,597.23	2,597.65	2,597.75	7.55	6.96	-135.346	-42.84	37.69	74.99	61.98	13.01	5.766	
2,700.00	2,696.94	2,697.53	2,697.54	7.83	7.21	-136.204	-46.98	38.42	79.73	66.35	13.37	5.961	
2,800.00	2,796.65	2,797.41	2,797.33	8.12	7.47	-136.965	-51.12	39.15	84.48	70.73	13.75	6.144	
2,900.00	2,896.36	2,897.30	2,897.13	8.42	7.73	-137.645	-55.26	39.88	89.25	75.12	14.13	6.315	
3,000.00	2,996.07	2,997.18	2,996.92	8.72	8.00	-138.256	-59.41	40.61	94.03	79.51	14.52	6.474	
3,100.00	3,095.78	3,097.06	3,096.71	9.03	8.28	-138.808	-63.55	41.34	98.82	83.90	14.92	6.624	
3,200.00	3,195.49	3,196.94	3,196.50	9.34	8.55	-139.309	-67.69	42.08	103.62	88.30	15.32	6.763	
3,300.00	3,295.20	3,296.82	3,296.30	9.66	8.83	-139.765	-71.84	42.81	108.42	92.69	15.73	6.894	
3,400.00	3,394.91	3,396.70	3,396.09	9.98	9.12	-140.183	-75.98	43.54	113.23	97.09	16.14	7.016	
3,500.00	3,494.62	3,496.58	3,495.88	10.30	9.40	-140.567	-80.12	44.27	118.05	101.50	16.56	7.131	
3,600.00	3,594.33	3,596.46	3,595.67	10.63	9.69	-140.920	-84.27	45.00	122.87	105.90	16.98	7.238	
3,700.00	3,694.04	3,696.34	3,695.47	10.96	9.98	-141.247	-88.41	45.73	127.70	110.30	17.40	7.339	
3,800.00	3,793.75	3,796.22	3,795.26	11.29	10.28	-141.550	-92.55	46.47	132.53	114.70	17.83	7.434	
3,900.00	3,893.47	3,896.11	3,895.05	11.63	10.57	-141.832	-96.69	47.20	137.36	119.10	18.26	7.523	
4,000.00	3,993.18	3,995.99	3,994.84	11.97	10.87	-142.094	-100.84	47.93	142.20	123.51	18.69	7.607	
4,100.00	4,092.89	4,095.87	4,094.63	12.31	11.17	-142.339	-104.98	48.66	147.04	127.91	19.13	7.687	
4,200.00	4,192.60	4,195.75	4,194.43	12.65	11.47	-142.569	-109.12	49.39	151.88	132.31	19.57	7.761	
4,300.00	4,292.31	4,295.63	4,294.22	13.00	11.77	-142.785	-113.27	50.12	156.72	136.71	20.01	7.832	
4,400.00	4,392.02	4,395.51	4,394.01	13.34	12.07	-142.987	-117.41	50.85	161.57	141.11	20.46	7.899	
4,500.00	4,491.73	4,495.39	4,493.80	13.69	12.37	-143.178	-121.55	51.59	166.42	145.51	20.90	7.962	
4,600.00	4,591.44	4,595.27	4,593.60	14.04	12.68	-143.358	-125.69	52.32	171.27	149.91	21.35	8.021	
4,700.00	4,691.15	4,695.15	4,693.39	14.39	12.98	-143.528	-129.84	53.05	176.12	154.31	21.80	8.078	
4,800.00	4,790.86	4,795.03	4,793.18	14.74	13.29	-143.689	-133.98	53.78	180.97	158.71	22.25	8.132	
4,900.00	4,890.57	4,894.91	4,892.97	15.10	13.60	-143.841	-138.12	54.51	185.82	163.11	22.71	8.183	
5,000.00	4,990.28	4,994.80	4,992.77	15.45	13.91	-143.986	-142.27	55.24	190.68	167.51	23.16	8.231	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 513H - OH - Plan 1 08-31-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	5,089.99	5,094.68	5,092.56	15.81	14.22	-144.123	-146.41	55.98	195.53	171.91	23.62	8.278	
5,200.00	5,189.70	5,194.56	5,192.35	16.16	14.53	-144.254	-150.55	56.71	200.39	176.31	24.08	8.322	
5,300.00	5,289.41	5,294.44	5,292.14	16.52	14.84	-144.379	-154.69	57.44	205.25	180.71	24.54	8.364	
5,400.00	5,389.12	5,394.32	5,391.93	16.88	15.15	-144.498	-158.84	58.17	210.11	185.11	25.00	8.403	
5,500.00	5,488.83	5,494.20	5,491.73	17.24	15.46	-144.611	-162.98	58.90	214.97	189.50	25.47	8.442	
5,600.00	5,588.54	5,594.08	5,591.52	17.59	15.78	-144.720	-167.12	59.63	219.83	193.90	25.93	8.478	
5,700.00	5,688.25	5,693.96	5,691.31	17.95	16.09	-144.824	-171.27	60.36	224.69	198.30	26.39	8.513	
5,800.00	5,787.96	5,793.84	5,791.10	18.32	16.40	-144.923	-175.41	61.10	229.56	202.70	26.86	8.546	
5,900.00	5,887.67	5,893.72	5,890.90	18.68	16.72	-145.019	-179.55	61.83	234.42	207.09	27.33	8.578	
6,000.00	5,987.38	5,993.60	5,990.69	19.04	17.03	-145.110	-183.69	62.56	239.28	211.49	27.80	8.609	
6,100.00	6,087.09	6,093.49	6,090.48	19.40	17.35	-145.198	-187.84	63.29	244.15	215.88	28.26	8.638	
6,200.00	6,186.80	6,193.37	6,190.27	19.76	17.66	-145.282	-191.98	64.02	249.01	220.28	28.73	8.666	
6,300.00	6,286.51	6,293.25	6,290.07	20.13	17.98	-145.363	-196.12	64.75	253.88	224.67	29.20	8.693	
6,400.00	6,386.22	6,393.13	6,389.86	20.49	18.30	-145.441	-200.27	65.49	258.74	229.07	29.68	8.719	
6,500.00	6,485.93	6,493.01	6,489.65	20.86	18.61	-145.516	-204.41	66.22	263.61	233.46	30.15	8.744	
6,600.00	6,585.64	6,592.89	6,589.44	21.22	18.93	-145.589	-208.55	66.95	268.48	237.86	30.62	8.768	
6,700.00	6,685.35	6,692.77	6,689.23	21.59	19.25	-145.659	-212.70	67.68	273.34	242.25	31.09	8.791	
6,800.00	6,785.06	6,792.65	6,789.03	21.95	19.56	-145.726	-216.84	68.41	278.21	246.64	31.57	8.813	
6,900.00	6,884.77	6,892.53	6,888.82	22.32	19.88	-145.791	-220.98	69.14	283.08	251.04	32.04	8.835	
7,000.00	6,984.48	6,992.41	6,988.61	22.68	20.20	-145.854	-225.12	69.87	287.95	255.43	32.52	8.855	
7,100.00	7,084.19	7,092.30	7,088.40	23.05	20.52	-145.915	-229.27	70.61	292.82	259.82	32.99	8.875	
7,200.00	7,183.90	7,192.18	7,188.20	23.42	20.84	-145.974	-233.41	71.34	297.69	264.22	33.47	8.894	
7,300.00	7,283.61	7,292.06	7,287.99	23.78	21.16	-146.031	-237.55	72.07	302.55	268.61	33.95	8.913	
7,400.00	7,383.32	7,391.94	7,387.78	24.15	21.48	-146.086	-241.70	72.80	307.42	273.00	34.42	8.931	
7,500.00	7,483.03	7,491.82	7,487.57	24.52	21.80	-146.139	-245.84	73.53	312.29	277.39	34.90	8.948	
7,600.00	7,582.74	7,591.70	7,587.37	24.89	22.12	-146.191	-249.98	74.26	317.16	281.79	35.38	8.965	
7,700.00	7,682.45	7,691.58	7,687.16	25.25	22.44	-146.241	-254.12	75.00	322.03	286.18	35.86	8.981	
7,800.00	7,782.16	7,791.46	7,786.95	25.62	22.76	-146.290	-258.27	75.73	326.91	290.57	36.34	8.997	
7,900.00	7,881.87	7,891.34	7,886.74	25.99	23.08	-146.337	-262.41	76.46	331.78	294.96	36.82	9.012	
8,000.00	7,981.58	7,991.22	7,986.53	26.36	23.40	-146.383	-266.55	77.19	336.65	299.35	37.30	9.026	
8,100.00	8,081.29	8,091.10	8,086.33	26.73	23.72	-146.428	-270.70	77.92	341.52	303.74	37.78	9.041	
8,200.00	8,181.00	8,190.99	8,186.12	27.10	24.04	-146.471	-274.84	78.65	346.39	308.13	38.26	9.054	
8,300.00	8,280.71	8,290.87	8,285.91	27.47	24.36	-146.513	-278.98	79.38	351.26	312.52	38.74	9.068	
8,400.00	8,380.42	8,390.75	8,385.70	27.84	24.68	-146.554	-283.12	80.12	356.13	316.92	39.22	9.081	
8,500.00	8,480.13	8,490.63	8,485.50	28.21	25.00	-146.594	-287.27	80.85	361.01	321.31	39.70	9.093	
8,600.00	8,579.84	8,590.51	8,585.29	28.58	25.32	-146.633	-291.41	81.58	365.88	325.70	40.18	9.106	
8,700.00	8,679.55	8,690.39	8,685.08	28.95	25.64	-146.671	-295.55	82.31	370.75	330.09	40.66	9.117	
8,800.00	8,779.26	8,790.27	8,784.87	29.32	25.97	-146.708	-299.70	83.04	375.62	334.48	41.15	9.129	
8,900.00	8,878.97	8,890.15	8,884.66	29.69	26.29	-146.744	-303.84	83.77	380.50	338.87	41.63	9.140	
9,000.00	8,978.68	8,990.03	8,984.46	30.06	26.61	-146.779	-307.98	84.51	385.37	343.26	42.11	9.151	
9,100.00	9,078.39	9,089.91	9,084.25	30.43	26.93	-146.813	-312.13	85.24	390.24	347.65	42.60	9.162	
9,200.00	9,178.10	9,189.79	9,184.04	30.80	27.25	-146.846	-316.27	85.97	395.11	352.04	43.08	9.172	
9,300.00	9,277.81	9,289.68	9,283.83	31.17	27.58	-146.878	-320.41	86.70	399.99	356.42	43.56	9.182	
9,400.00	9,377.52	9,389.56	9,383.63	31.54	27.90	-146.910	-324.55	87.43	404.86	360.81	44.05	9.192	
9,500.00	9,477.23	9,489.44	9,483.42	31.91	28.22	-146.941	-328.70	88.16	409.73	365.20	44.53	9.201	
9,600.00	9,576.94	9,589.32	9,583.21	32.29	28.54	-146.971	-332.84	88.89	414.61	369.59	45.01	9.210	
9,700.00	9,676.65	9,689.20	9,683.00	32.66	28.86	-147.001	-336.98	89.63	419.48	373.98	45.50	9.219	
9,800.00	9,776.36	9,789.08	9,782.80	33.03	29.19	-147.029	-341.13	90.36	424.36	378.37	45.98	9.228	
9,900.00	9,876.07	9,888.96	9,882.59	33.40	29.51	-147.058	-345.27	91.09	429.23	382.76	46.47	9.237	
10,000.00	9,975.78	9,988.84	9,982.38	33.77	29.83	-147.085	-349.41	91.82	434.10	387.15	46.95	9.245	
10,100.00	10,075.49	10,088.72	10,082.17	34.14	30.16	-147.112	-353.55	92.55	438.98	391.54	47.44	9.253	
10,200.00	10,175.20	10,188.60	10,181.96	34.52	30.48	-147.138	-357.70	93.28	443.85	395.93	47.93	9.261	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 513H - OH - Plan 1 08-31-22												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,300.00	10,274.91	10,288.49	10,281.76	34.89	30.80	-147.164	-361.84	94.01	448.73	400.31	48.41	9.269	
10,400.00	10,374.62	10,388.37	10,381.55	35.26	31.13	-147.189	-365.98	94.75	453.60	404.70	48.90	9.277	
10,500.00	10,474.33	10,488.25	10,481.34	35.63	31.45	-147.214	-370.13	95.48	458.47	409.09	49.38	9.284	
10,600.00	10,574.04	10,588.13	10,581.13	36.01	31.77	-147.238	-374.27	96.21	463.35	413.48	49.87	9.291	
10,700.00	10,673.75	10,688.01	10,680.93	36.38	32.10	-147.262	-378.41	96.94	468.22	417.87	50.36	9.298	
10,800.00	10,773.46	10,787.89	10,780.72	36.75	32.42	-147.285	-382.55	97.67	473.10	422.26	50.84	9.305	
10,900.00	10,873.18	10,887.77	10,880.51	37.12	32.74	-147.308	-386.70	98.40	477.97	426.64	51.33	9.312	
11,000.00	10,972.89	10,987.65	10,980.30	37.50	33.07	-147.330	-390.84	99.14	482.85	431.03	51.82	9.318	
11,100.00	11,072.60	11,087.53	11,080.10	37.87	33.39	-147.352	-394.98	99.87	487.72	435.42	52.30	9.325	
11,200.00	11,172.31	11,187.41	11,179.89	38.24	33.71	-147.373	-399.13	100.60	492.60	439.81	52.79	9.331	
11,300.00	11,272.02	11,287.29	11,279.68	38.62	34.04	-147.394	-403.27	101.33	497.47	444.19	53.28	9.337	
11,381.30	11,353.08	11,368.50	11,360.81	38.92	34.30	-147.411	-406.64	101.92	501.44	447.77	53.67	9.343	
11,400.00	11,371.73	11,387.18	11,379.47	38.98	34.36	-147.420	-407.41	102.06	502.30	448.54	53.76	9.344	
11,500.00	11,471.59	11,487.13	11,479.33	39.34	34.68	-147.324	-411.56	102.79	505.15	451.01	54.15	9.330	
11,599.47	11,571.04	11,586.55	11,578.67	39.49	35.01	-58.994	-415.68	103.52	505.09	450.85	54.24	9.312	
11,600.00	11,571.57	11,587.08	11,579.20	39.49	35.01	-58.996	-415.70	103.53	505.08	450.84	54.24	9.312	
11,700.00	11,671.57	11,686.99	11,679.02	39.52	35.33	-59.443	-419.85	104.26	503.59	449.44	54.15	9.301	
11,800.00	11,771.57	11,786.90	11,778.84	39.52	35.66	-59.893	-423.99	104.99	502.12	448.08	54.04	9.291	
11,900.00	11,871.57	11,886.81	11,878.66	39.53	35.98	-60.345	-428.14	105.72	500.69	446.76	53.94	9.283	
12,000.00	11,971.57	11,982.41	11,974.21	39.54	36.27	-60.675	-431.14	106.25	499.63	445.77	53.86	9.276	
12,064.61	12,036.18	12,044.38	12,036.18	39.54	36.36	-60.714	-431.50	106.31	499.50	445.64	53.86	9.274	
12,099.47	12,071.04	12,079.24	12,071.04	39.54	36.36	-60.714	-431.50	106.31	499.50	445.64	53.86	9.274	
12,100.00	12,071.57	12,079.77	12,071.57	39.55	36.36	-118.732	-431.50	106.31	499.50	445.64	53.86	9.274	
12,150.00	12,121.50	12,129.70	12,121.50	39.65	36.36	-118.861	-431.50	106.31	500.58	446.53	54.05	9.262	
12,200.00	12,171.05	12,179.25	12,171.05	39.91	36.36	-119.230	-431.50	106.31	503.79	449.22	54.58	9.231	
12,250.00	12,219.84	12,228.04	12,219.84	40.20	36.36	-119.802	-431.50	106.31	509.25	453.87	55.37	9.197	
12,300.00	12,267.50	12,275.70	12,267.50	40.50	36.36	-120.518	-431.50	106.31	517.10	460.68	56.42	9.166	
12,350.00	12,313.66	12,321.86	12,313.66	40.80	36.36	-121.305	-431.50	106.31	527.54	469.86	57.68	9.147	
12,400.00	12,357.98	12,366.18	12,357.98	41.09	36.37	-122.076	-431.50	106.31	540.77	481.66	59.11	9.149	
12,450.00	12,400.11	12,408.31	12,400.11	41.38	36.37	-122.741	-431.50	106.31	556.97	496.31	60.66	9.182	
12,500.00	12,439.74	12,447.94	12,439.74	41.66	36.37	-123.204	-431.50	106.31	576.28	514.01	62.27	9.255	
12,550.00	12,476.56	12,484.76	12,476.56	41.92	36.37	-123.367	-431.50	106.31	598.80	534.91	63.89	9.372	
12,600.00	12,510.29	12,518.49	12,510.29	42.16	36.37	-123.129	-431.50	106.31	624.53	559.07	65.46	9.540	
12,650.00	12,540.68	12,548.60	12,540.68	42.39	37.02	-129.365	-446.62	106.46	651.64	584.24	67.40	9.668	
12,700.00	12,567.50	12,575.88	12,567.50	42.58	39.11	-138.305	-606.18	108.00	669.94	604.74	65.20	10.276	
12,750.00	12,590.54	13,415.80	13,092.87	42.76	40.38	-136.408	-991.99	111.71	666.54	609.84	56.70	11.756	
12,800.00	12,609.63	13,472.91	13,093.00	42.91	40.40	-136.052	-1,049.09	112.26	652.29	595.46	56.83	11.478	
12,850.00	12,624.61	13,520.59	13,093.00	43.03	40.41	-135.936	-1,096.78	112.72	641.26	584.01	57.25	11.201	
12,900.00	12,635.39	13,569.40	13,093.00	43.12	40.42	-135.822	-1,145.58	113.19	633.43	575.69	57.74	10.970	
12,950.00	12,641.87	13,618.96	13,093.00	43.19	40.44	-135.741	-1,195.14	113.67	628.77	570.46	58.31	10.783	
12,999.47	12,644.00	13,668.38	13,093.00	43.23	40.45	-135.712	-1,244.55	114.14	627.24	568.30	58.94	10.643	
13,000.00	12,644.00	13,668.90	13,093.00	43.24	40.45	-135.712	-1,245.08	114.15	627.24	568.29	58.94	10.641	
13,100.00	12,644.00	13,768.90	13,093.00	43.31	40.48	-135.712	-1,345.08	115.11	627.23	566.99	60.24	10.412	
13,200.00	12,644.00	13,868.90	13,093.00	43.39	40.52	-135.713	-1,445.07	116.07	627.23	565.71	61.52	10.195	
13,300.00	12,644.00	13,968.90	13,093.00	43.50	40.56	-135.713	-1,545.07	117.04	627.23	564.36	62.86	9.978	
13,400.00	12,644.00	14,068.90	13,093.00	43.63	40.61	-135.713	-1,645.06	118.00	627.23	562.97	64.26	9.761	
13,500.00	12,644.00	14,168.90	13,093.00	43.78	40.67	-135.713	-1,745.06	118.96	627.22	561.52	65.70	9.546	
13,600.00	12,644.00	14,268.90	13,093.00	43.96	40.74	-135.713	-1,845.05	119.92	627.22	560.02	67.20	9.334	
13,700.00	12,644.00	14,368.90	13,093.00	44.18	40.82	-135.714	-1,945.05	120.89	627.22	558.48	68.73	9.125	
13,800.00	12,644.00	14,468.90	13,093.00	44.44	40.92	-135.714	-2,045.04	121.85	627.22	556.90	70.31	8.920	
13,900.00	12,644.00	14,568.90	13,093.00	44.74	41.05	-135.714	-2,145.04	122.81	627.21	555.28	71.93	8.720	
14,000.00	12,644.00	14,668.90	13,093.00	45.11	41.22	-135.714	-2,245.03	123.77	627.21	553.62	73.59	8.523	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 513H - OH - Plan 1 08-31-22													Offset Site Error:	0.00 usft
Survey Program:		0-MWD+HRGM					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	
14,100.00	12,644.00	14,768.90	13,093.00	45.54	41.47	-135.715	-2,345.03	124.74	627.21	551.93	75.28	8.332		
14,200.00	12,644.00	14,868.90	13,093.00	46.05	41.84	-135.715	-2,445.02	125.70	627.21	550.21	77.00	8.146		
14,300.00	12,644.00	14,968.90	13,093.00	46.65	42.39	-135.715	-2,545.02	126.66	627.20	548.46	78.75	7.965		
14,400.00	12,644.00	15,068.90	13,093.00	47.33	43.15	-135.715	-2,645.01	127.63	627.20	546.68	80.52	7.789		
14,500.00	12,644.00	15,168.90	13,093.00	48.09	44.10	-135.715	-2,745.01	128.59	627.20	544.87	82.33	7.618		
14,600.00	12,644.00	15,268.90	13,093.00	48.94	45.20	-135.716	-2,845.01	129.55	627.20	543.04	84.16	7.453		
14,700.00	12,644.00	15,368.90	13,093.00	49.86	46.38	-135.716	-2,945.00	130.51	627.19	541.19	86.01	7.292		
14,800.00	12,644.00	15,468.90	13,093.00	50.85	47.62	-135.716	-3,045.00	131.48	627.19	539.31	87.88	7.137		
14,900.00	12,644.00	15,568.90	13,093.00	51.89	48.90	-135.716	-3,144.99	132.44	627.19	537.42	89.77	6.987		
15,000.00	12,644.00	15,668.90	13,093.00	52.99	50.20	-135.717	-3,244.99	133.40	627.19	535.51	91.68	6.841		
15,100.00	12,644.00	15,768.90	13,093.00	54.12	51.52	-135.717	-3,344.98	134.36	627.18	533.57	93.61	6.700		
15,200.00	12,644.00	15,868.90	13,093.00	55.29	52.85	-135.717	-3,444.98	135.33	627.18	531.63	95.55	6.564		
15,300.00	12,644.00	15,968.90	13,093.00	56.49	54.19	-135.717	-3,544.97	136.29	627.18	529.66	97.52	6.432		
15,400.00	12,644.00	16,068.90	13,093.00	57.72	55.54	-135.717	-3,644.97	137.25	627.18	527.69	99.49	6.304		
15,500.00	12,644.00	16,168.90	13,093.00	58.96	56.90	-135.718	-3,744.96	138.21	627.18	525.70	101.48	6.180		
15,600.00	12,644.00	16,268.90	13,093.00	60.22	58.27	-135.718	-3,844.96	139.18	627.17	523.69	103.48	6.061		
15,700.00	12,644.00	16,368.90	13,093.00	61.50	59.64	-135.718	-3,944.95	140.14	627.17	521.68	105.49	5.945		
15,800.00	12,644.00	16,468.90	13,093.00	62.79	61.01	-135.718	-4,044.95	141.10	627.17	519.65	107.52	5.833		
15,900.00	12,644.00	16,568.90	13,093.00	64.09	62.39	-135.719	-4,144.95	142.07	627.17	517.61	109.55	5.725		
16,000.00	12,644.00	16,668.90	13,093.00	65.40	63.77	-135.719	-4,244.94	143.03	627.16	515.56	111.60	5.620		
16,100.00	12,644.00	16,768.90	13,093.00	66.72	65.15	-135.719	-4,344.94	143.99	627.16	513.51	113.66	5.518		
16,200.00	12,644.00	16,868.90	13,093.00	68.04	66.54	-135.719	-4,444.93	144.95	627.16	511.44	115.72	5.420		
16,300.00	12,644.00	16,968.90	13,093.00	69.38	67.93	-135.719	-4,544.93	145.92	627.16	509.36	117.79	5.324		
16,400.00	12,644.00	17,068.90	13,093.00	70.72	69.32	-135.720	-4,644.92	146.88	627.15	507.28	119.88	5.232		
16,500.00	12,644.00	17,168.90	13,093.00	72.07	70.71	-135.720	-4,744.92	147.84	627.15	505.19	121.96	5.142		
16,600.00	12,644.00	17,268.90	13,093.00	73.42	72.11	-135.720	-4,844.91	148.80	627.15	503.09	124.06	5.055		
16,700.00	12,644.00	17,368.90	13,093.00	74.77	73.50	-135.720	-4,944.91	149.77	627.15	500.98	126.17	4.971		
16,800.00	12,644.00	17,468.90	13,093.00	76.13	74.90	-135.721	-5,044.90	150.73	627.14	498.87	128.28	4.889		
16,900.00	12,644.00	17,568.90	13,093.00	77.49	76.30	-135.721	-5,144.90	151.69	627.14	496.75	130.39	4.810		
17,000.00	12,644.00	17,668.90	13,093.00	78.86	77.71	-135.721	-5,244.89	152.65	627.14	494.62	132.52	4.733		
17,100.00	12,644.00	17,768.90	13,093.00	80.23	79.11	-135.721	-5,344.89	153.62	627.14	492.49	134.64	4.658		
17,200.00	12,644.00	17,868.90	13,093.00	81.60	80.51	-135.722	-5,444.89	154.58	627.13	490.36	136.78	4.585		
17,300.00	12,644.00	17,968.90	13,093.00	82.98	81.92	-135.722	-5,544.88	155.54	627.13	488.21	138.92	4.514		
17,400.00	12,644.00	18,068.90	13,093.00	84.36	83.33	-135.722	-5,644.88	156.51	627.13	486.07	141.06	4.446		
17,500.00	12,644.00	18,168.90	13,093.00	85.74	84.73	-135.722	-5,744.87	157.47	627.13	483.92	143.21	4.379		
17,600.00	12,644.00	18,268.90	13,093.00	87.12	86.14	-135.722	-5,844.87	158.43	627.12	481.76	145.37	4.314		
17,700.00	12,644.00	18,368.90	13,093.00	88.51	87.55	-135.723	-5,944.86	159.39	627.12	479.60	147.52	4.251		
17,800.00	12,644.00	18,468.90	13,093.00	89.89	88.96	-135.723	-6,044.86	160.36	627.12	477.43	149.69	4.190		
17,900.00	12,644.00	18,568.90	13,093.00	91.28	90.38	-135.723	-6,144.85	161.32	627.12	475.27	151.85	4.130		
18,000.00	12,644.00	18,668.90	13,093.00	92.67	91.79	-135.723	-6,244.85	162.28	627.12	473.09	154.02	4.072		
18,100.00	12,644.00	18,768.90	13,093.00	94.07	93.20	-135.724	-6,344.84	163.24	627.11	470.92	156.20	4.015		
18,200.00	12,644.00	18,868.90	13,093.00	95.46	94.62	-135.724	-6,444.84	164.21	627.11	468.74	158.37	3.960		
18,300.00	12,644.00	18,968.90	13,093.00	96.85	96.03	-135.724	-6,544.83	165.17	627.11	466.56	160.55	3.906		
18,400.00	12,644.00	19,068.90	13,093.00	98.25	97.45	-135.724	-6,644.83	166.13	627.11	464.37	162.74	3.854		
18,500.00	12,644.00	19,168.90	13,093.00	99.65	98.86	-135.724	-6,744.82	167.09	627.10	462.18	164.92	3.802		
18,600.00	12,644.00	19,268.90	13,093.00	101.05	100.28	-135.725	-6,844.82	168.06	627.10	459.99	167.11	3.753		
18,700.00	12,644.00	19,368.90	13,093.00	102.45	101.70	-135.725	-6,944.82	169.02	627.10	457.79	169.31	3.704		
18,800.00	12,644.00	19,468.90	13,093.00	103.85	103.11	-135.725	-7,044.81	169.98	627.10	455.60	171.50	3.657		
18,900.00	12,644.00	19,568.90	13,093.00	105.25	104.53	-135.725	-7,144.81	170.95	627.09	453.39	173.70	3.610		
19,000.00	12,644.00	19,668.90	13,093.00	106.65	105.95	-135.726	-7,244.80	171.91	627.09	451.19	175.90	3.565		
19,100.00	12,644.00	19,768.90	13,093.00	108.06	107.37	-135.726	-7,344.80	172.87	627.09	448.99	178.10	3.521		
19,200.00	12,644.00	19,868.90	13,093.00	109.46	108.79	-135.726	-7,444.79	173.83	627.09	446.78	180.31	3.478		

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 513H - OH - Plan 1 08-31-22													Offset Site Error:	0.00 usft
Survey Program:		0-MWD+HRGM							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)				
19,300.00	12,644.00	19,968.90	13,093.00	110.87	110.21	-135.726	-7,544.79	174.80	627.08	444.57	182.51	3.436		
19,400.00	12,644.00	20,068.90	13,093.00	112.28	111.63	-135.726	-7,644.78	175.76	627.08	442.36	184.72	3.395		
19,500.00	12,644.00	20,168.90	13,093.00	113.68	113.05	-135.727	-7,744.78	176.72	627.08	440.14	186.94	3.355		
19,600.00	12,644.00	20,268.90	13,093.00	115.09	114.47	-135.727	-7,844.77	177.68	627.08	437.93	189.15	3.315		
19,700.00	12,644.00	20,368.90	13,093.00	116.50	115.89	-135.727	-7,944.77	178.65	627.07	435.71	191.37	3.277		
19,800.00	12,644.00	20,468.90	13,093.00	117.91	117.32	-135.727	-8,044.76	179.61	627.07	433.49	193.58	3.239		
19,900.00	12,644.00	20,568.90	13,093.00	119.32	118.74	-135.728	-8,144.76	180.57	627.07	431.27	195.80	3.203		
20,000.00	12,644.00	20,668.90	13,093.00	120.73	120.16	-135.728	-8,244.76	181.54	627.07	429.04	198.02	3.167		
20,100.00	12,644.00	20,768.90	13,093.00	122.15	121.58	-135.728	-8,344.75	182.50	627.06	426.82	200.25	3.131		
20,200.00	12,644.00	20,868.90	13,093.00	123.56	123.01	-135.728	-8,444.75	183.46	627.06	424.59	202.47	3.097		
20,300.00	12,644.00	20,968.90	13,093.00	124.97	124.43	-135.729	-8,544.74	184.42	627.06	422.36	204.70	3.063		
20,400.00	12,644.00	21,068.90	13,093.00	126.38	125.85	-135.729	-8,644.74	185.39	627.06	420.13	206.93	3.030		
20,500.00	12,644.00	21,168.90	13,093.00	127.80	127.28	-135.729	-8,744.73	186.35	627.05	417.90	209.16	2.998		
20,600.00	12,644.00	21,268.90	13,093.00	129.21	128.70	-135.729	-8,844.73	187.31	627.05	415.67	211.39	2.966		
20,700.00	12,644.00	21,368.90	13,093.00	130.63	130.13	-135.729	-8,944.72	188.27	627.05	413.43	213.62	2.935		
20,800.00	12,644.00	21,468.90	13,093.00	132.04	131.55	-135.730	-9,044.72	189.24	627.05	411.20	215.85	2.905		
20,900.00	12,644.00	21,568.90	13,093.00	133.46	132.98	-135.730	-9,144.71	190.20	627.05	408.96	218.09	2.875		
21,000.00	12,644.00	21,668.90	13,093.00	134.88	134.40	-135.730	-9,244.71	191.16	627.04	406.72	220.32	2.846		
21,100.00	12,644.00	21,768.90	13,093.00	136.29	135.83	-135.730	-9,344.70	192.12	627.04	404.48	222.56	2.817		
21,200.00	12,644.00	21,868.90	13,093.00	137.71	137.25	-135.731	-9,444.70	193.09	627.04	402.24	224.80	2.789		
21,300.00	12,644.00	21,968.90	13,093.00	139.13	138.68	-135.731	-9,544.70	194.05	627.04	400.00	227.04	2.762		
21,400.00	12,644.00	22,068.90	13,093.00	140.54	140.11	-135.731	-9,644.69	195.01	627.03	397.76	229.28	2.735		
21,500.00	12,644.00	22,168.90	13,093.00	141.96	141.53	-135.731	-9,744.69	195.98	627.03	395.51	231.52	2.708		
21,600.00	12,644.00	22,268.90	13,093.00	143.38	142.96	-135.731	-9,844.68	196.94	627.03	393.27	233.76	2.682		
21,700.00	12,644.00	22,368.90	13,093.00	144.80	144.39	-135.732	-9,944.68	197.90	627.03	391.02	236.01	2.657		
21,800.00	12,644.00	22,468.90	13,093.00	146.22	145.81	-135.732	-10,044.67	198.86	627.02	388.77	238.25	2.632		
21,900.00	12,644.00	22,568.90	13,093.00	147.64	147.24	-135.732	-10,144.67	199.83	627.02	386.52	240.50	2.607		
22,000.00	12,644.00	22,668.90	13,093.00	149.06	148.67	-135.732	-10,244.66	200.79	627.02	384.27	242.74	2.583		
22,057.86	12,644.00	22,726.76	13,093.00	149.88	149.49	-135.732	-10,302.52	201.35	627.02	382.97	244.04	2.569		
22,100.00	12,644.00	22,728.24	13,093.00	150.48	149.52	-135.732	-10,304.00	201.36	628.33	382.80	245.54	2.559 SF		
22,199.47	12,644.00	22,728.24	13,093.00	151.89	149.52	-135.732	-10,304.00	201.36	642.48	397.08	245.40	2.618		



Anticollision Report

TITUS

OIL GAS LLC

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Reference Depths are relative to RKB @ 3201.50usft (TBD)

Offset Depths are relative to Offset Datum

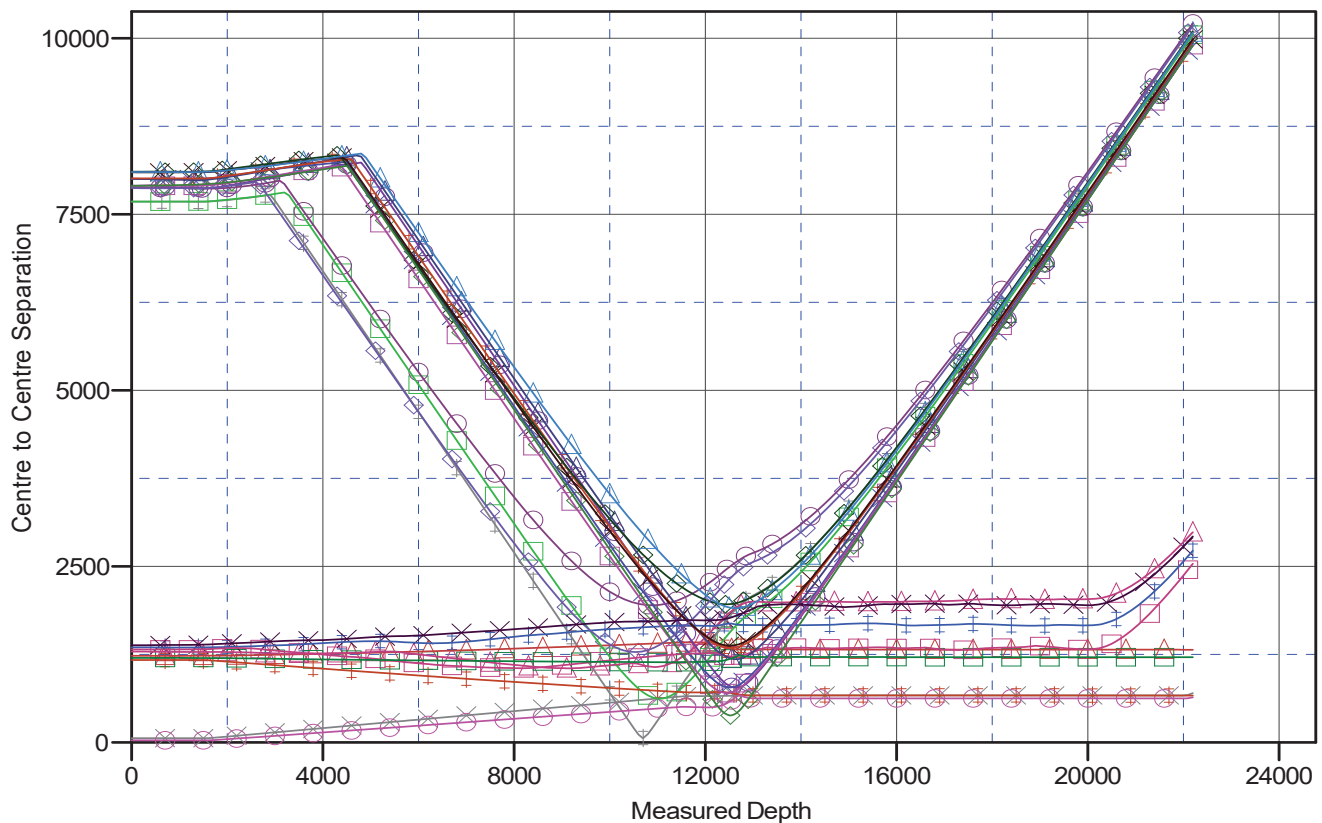
Central Meridian is 104° 19' 60.000000 W

Coordinates are relative to: El Campeon Fed Com 413H

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	403H, OH / 6804, Surveys (H&P 656) V0
Cattlemans Red Com 123H, OH / 68915, Surveys (H&P 616) V0	El Campeon Red Com 432H, OH, Plan 1 08-31-22 V0	Cattlemans Red Com 434H, OH / 67733, 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	Cattlemans Red Com 514H, OH / 67734, Surveys (H&P 474) V0
Cattlemans Red Com 213H, OH / 68914, Surveys (H&P 616) V0	512H, OH / 6837, Surveys (H&P 625) V0	433H, OH / 6896, Surveys (H&P 656) V0
Cattlemans Red Com 204H, OH / 68917, Surveys (H&P 656) V0	El Campeon Red Com 512H, OH, Plan 1 08-31-22 V0	Cattlemans Red Com 114H, OH / 68918, 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	Cattlemans Red Com 404H, OH / 67732, Surveys (H&P 474) V0	
422H, OH / 6835, Surveys (H&P 625) V0	El Campeon Red Com 513H, OH, Plan 1 08-31-22 V0	

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



Anticollision Report

TITUS

OIL GAS LLC

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 413H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3201.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3201.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 413H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Reference Depths are relative to RKB @ 3201.50usft (TBD)

Offset Depths are relative to Offset Datum

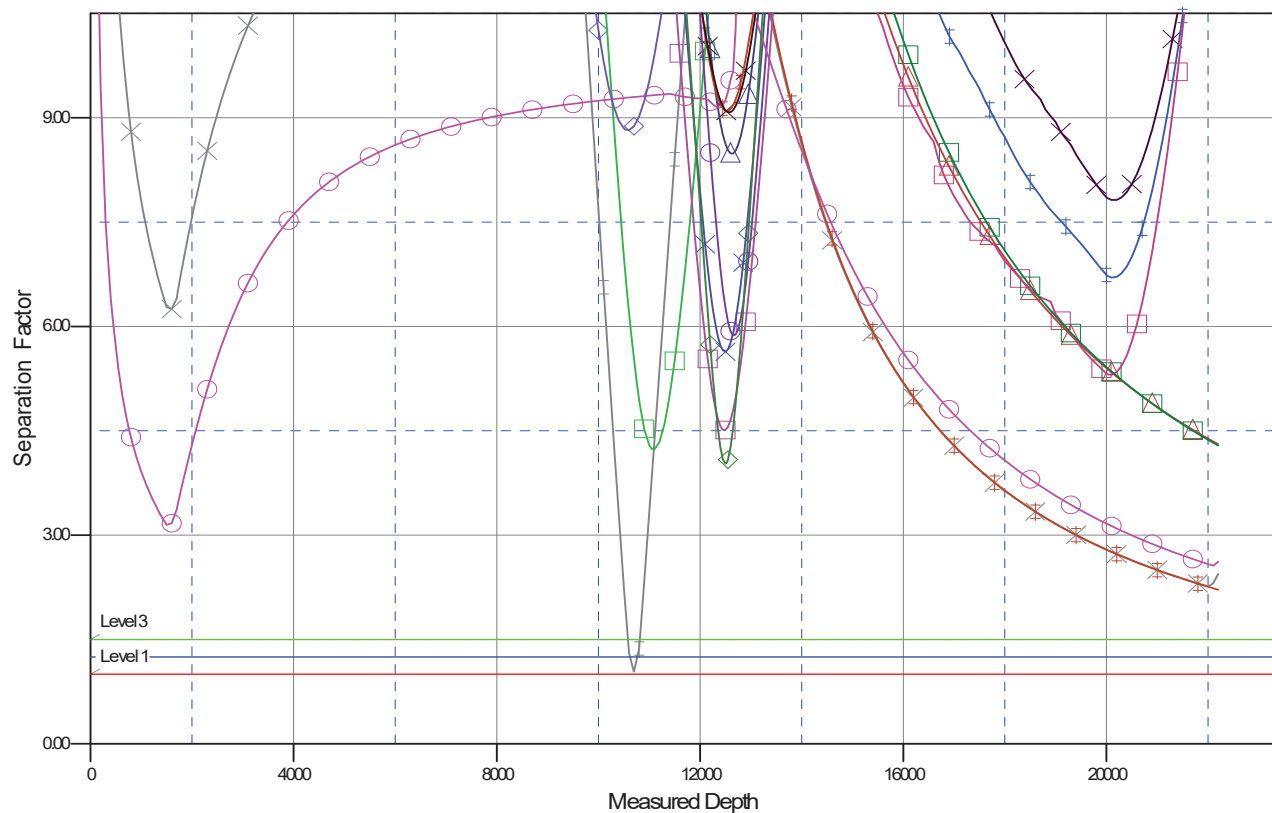
Central Meridian is 104° 19' 60.000000 W

Coordinates are relative to: El Campeon Fed Com 413H

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

Grid Convergence at Surface is: 0.502°

Separation Factor Plot

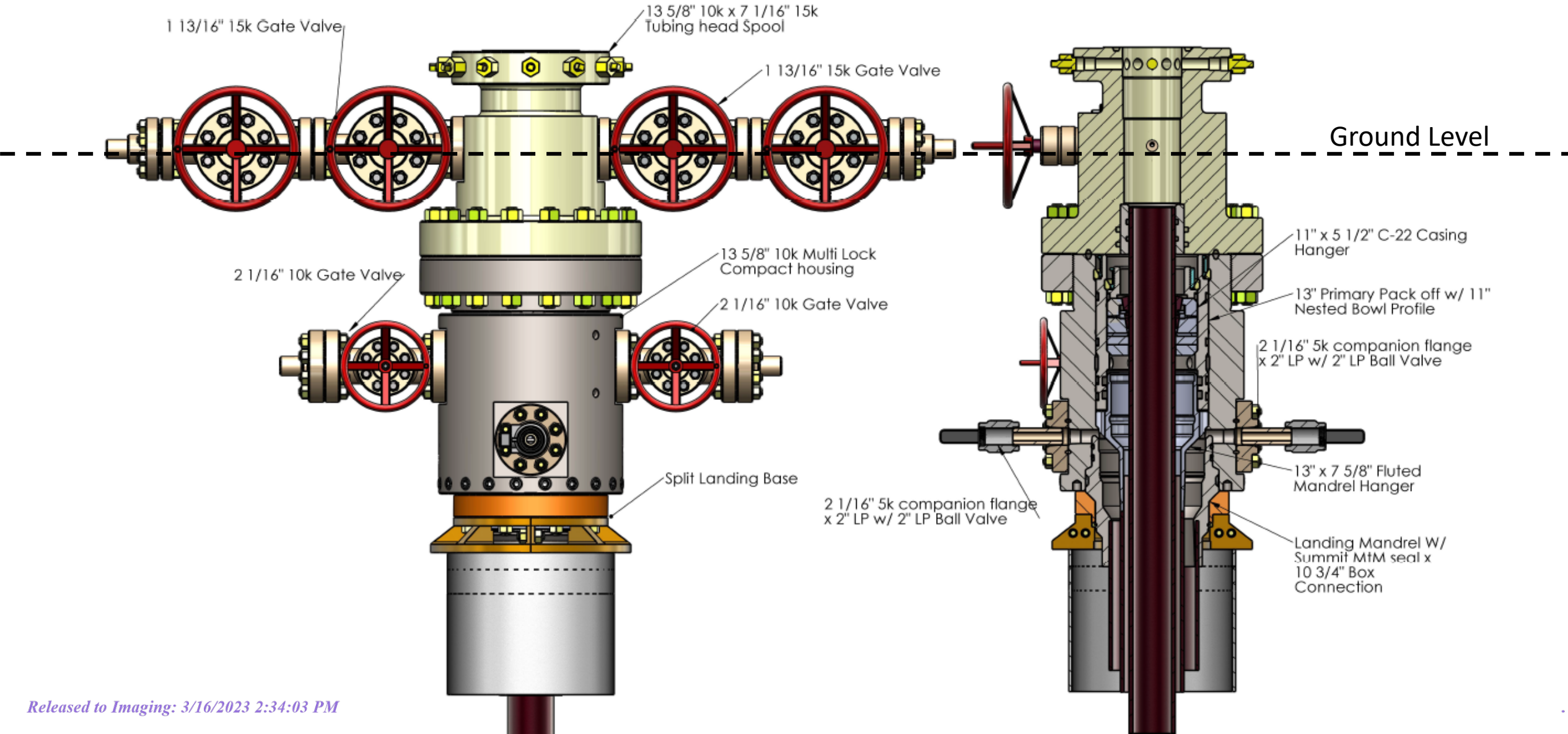


LEGEND

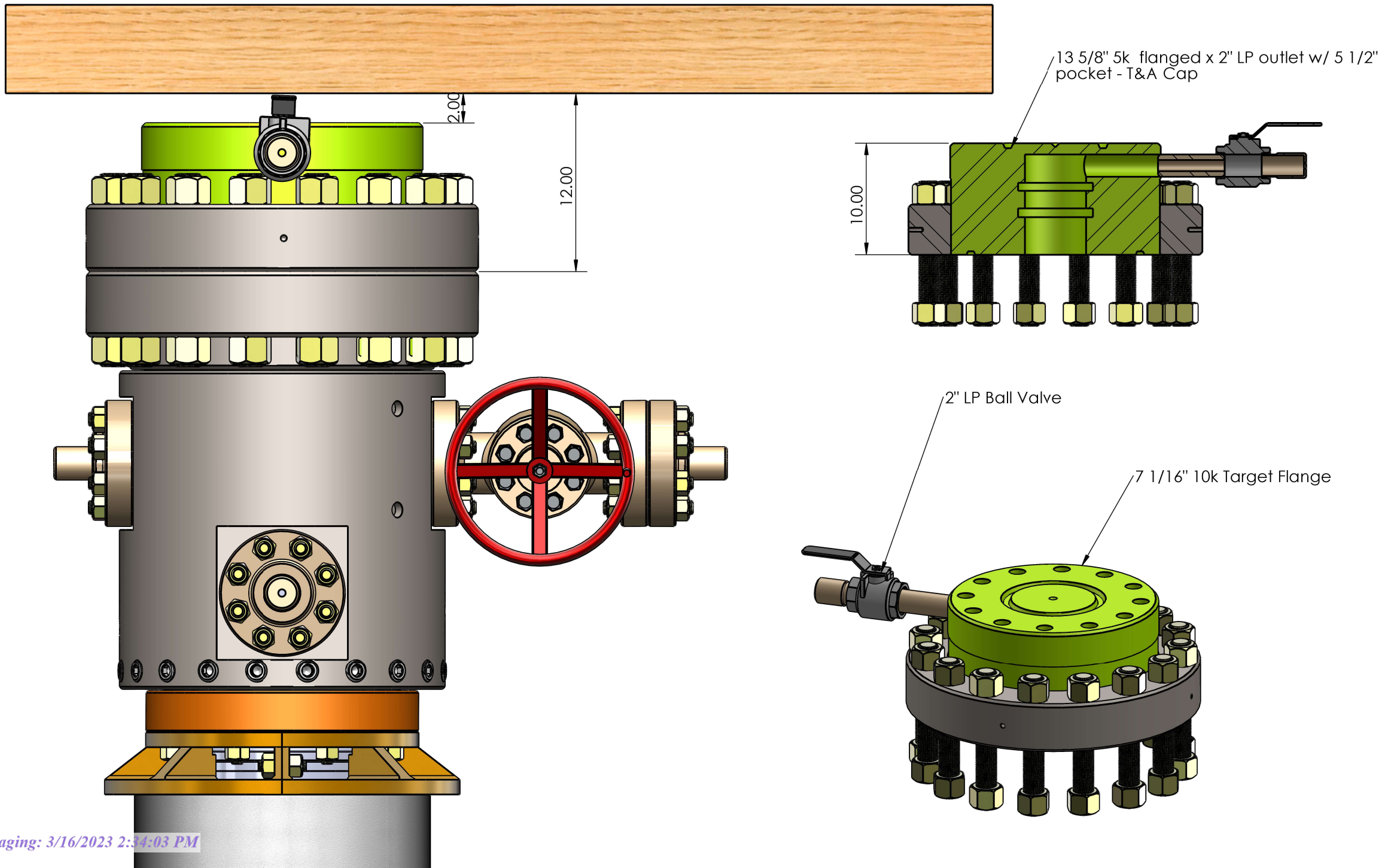
El Campeon Red Com 433H, OH, Plan 1 08-31-22 V0	514H, OH / 6824, Surveys (H&P 474) V0	403H, OH / 6804, Surveys (H&P 656) V0
Cattlemen Red Com 123H, OH / 69915, Surveys (H&P 616) V0	El Campeon Red Com 432H, OH, Plan 1 08-31-22 V0	Cattlemen Red Com 434H, OH / 67733, Surveys (H&P 474) V0
El Campeon Red Com 412H, OH, Plan 1 08-31-22 V0	436H, OH / 6823, Surveys (H&P 474) V0	Cattlemen Red Com 514H, OH / 67734, Surveys (H&P 474) V0
Cattlemen Red Com 213H, OH / 69914, Surveys (H&P 616) V0	512H, OH / 6837, Surveys (H&P 625) V0	433H, OH / 6806, Surveys (H&P 656) V0
Cattlemen Red Com 204H, OH / 69917, Surveys (H&P 616) V0	El Campeon Red Com 512H, OH, Plan 1 08-31-22 V0	Cattlemen 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	Cattlemen Red Com 404H, OH / 67732, Surveys (H&P 474) V0	
422H, OH / 6835, Surveys (H&P 625) V0	El Campeon Red Com 513H, OH, Plan 1 08-31-22 V0	

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

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



13 5/8" 5k T&A Cap



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

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

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 195547

CONDITIONS

Operator: Earthstone Operating, LLC 1400 Woodloch Forest; Ste 300 The Woodlands, TX 77380	OGRID: 331165
	Action Number: 195547
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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