

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)

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

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

11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
<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: SESW / 579 FSL / 2107 FWL / TWSP: 26S / RANGE: 35E / SECTION: 20 / LAT: 32.0231166 / LONG: -103.3911454 (TVD: 0 feet, MD: 0 feet)
PPP: NENW / 0 FNL / 1864 FWL / TWSP: 26S / RANGE: 35E / SECTION: 29 / LAT: 32.021524 / LONG: -103.391928 (TVD: 13018 feet, MD: 13100 feet)
PPP: SENW / 1321 FNL / 1849 FWL / TWSP: 26S / RANGE: 35E / SECTION: 29 / LAT: 32.017892 / LONG: -103.391969 (TVD: 13103 feet, MD: 14400 feet)
PPP: SENW / 2642 FSL / 1849 FWL / TWSP: 26S / RANGE: 35E / SECTION: 29 / LAT: 32.01426 / LONG: -103.391963 (TVD: 13102 feet, MD: 15800 feet)
PPP: LOT 3 / 0 FNL / 1850 FWL / TWSP: 26S / RANGE: 35E / SECTION: 32 / LAT: 32.006997 / LONG: -103.391951 (TVD: 13100 feet, MD: 18400 feet)
BHL: LOT 3 / 10 FSL / 1850 FWL / TWSP: 26S / RANGE: 35E / SECTION: 32 / LAT: 32.0003202 / LONG: -103.3919395 (TVD: 13098 feet, MD: 20825 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 30-025-48138	2 Pool Code 96776	3 Pool Name JABALINA; WOLFCAMP, SOUTHWEST
4 Property Code	5 Property Name EL CAMPEON FED COM	6 Well Number 512H
7 OGRID No. 331165	8 Operator Name EARTHSTONE OPERATING LLC	9 Elevation 3174'

¹⁰ Surface Location

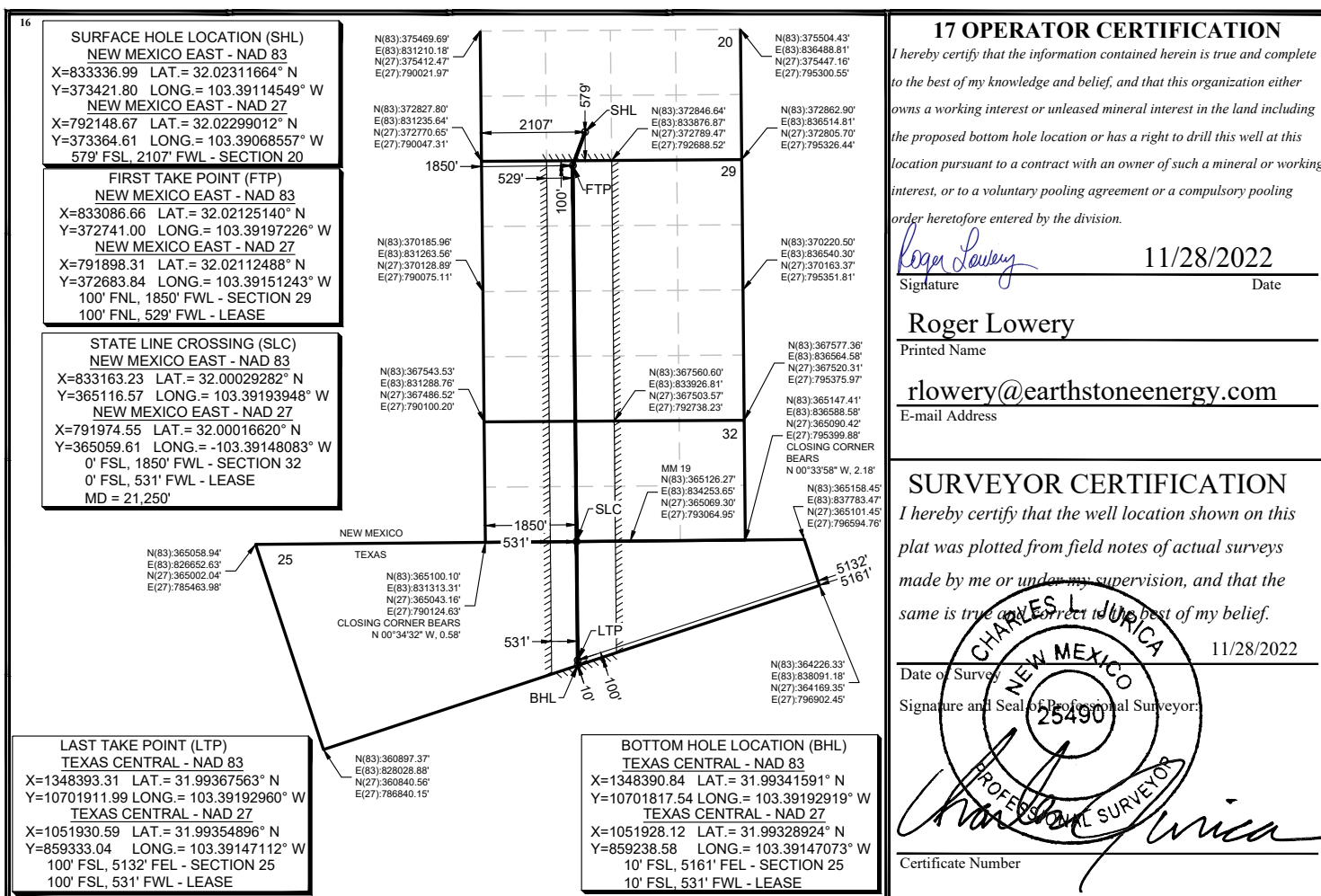
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	20	26-S	35-E		579'	SOUTH	2107'	WEST	LEA

¹¹ State Line Crossing If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County (TX)
1	32	26S	35E	L3	0'	SOUTH	1850'	WEST	LEA

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

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

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

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

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

WELL NAME & NO.:	El CampeonFed Com 512H
SURFACE HOLE FOOTAGE:	579'S & 2107'/W
BOTTOM HOLE FOOTAGE:	0'S & 1850'/W

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

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

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

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

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

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

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

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

C. PRESSURE CONTROL

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

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

GENERAL REQUIREMENTS

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

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

☒ Eddy County

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

☒ Lea County

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

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

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

A. CASING

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

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

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

B. PRESSURE CONTROL

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

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

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

ZS011323

Titus Oil & Gas Production, LLC - El Campeon Fed Com 512H

1. Geologic Formations

TVD of target	13,108' EOL	Pilot hole depth	NA
MD at TD:	23,247'	Deepest expected fresh water:	400'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1050	Water	
Top of Salt	1482	Salt	
Base of Salt	5052	Salt	
Lamar	5350	Salt Water	
Delaware	5372	Salt Water	
Bone Spring Lime	9238	Oil/Gas	
1st Bone Spring	10605	Oil/Gas	
2nd Bone Spring	11092	Oil/Gas	
3rd Bone Spring	12164	Oil/Gas	
Wolfcamp	12460	Oil/Gas	
Wolfcamp X Sand	12495	Oil/Gas	
Wolfcamp Y Sand	12556	Oil/Gas	
Wolfcamp A	12585	Oil/Gas	
Wolfcamp B	12914	Target Oil/Gas	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body
	From	To							
13.5"	0	1075	10.75"	45.5	J55	BTC	4.25	0.80	14.62
9.875"	0	12200	7.625"	29.7	HCL80	BTC	1.16	1.02	2.00
6.75"	0	12000	5.5"	20	P110	BTC	1.81	1.88	3.09
6.75"	12000	23,247	5"	18	P110	BTC	1.81	1.88	3.09
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet

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

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

Titus Oil & Gas Production, LLC - El Campeon Fed Com 512H

	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 512H

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	12,000'	35% OH in Lateral (KOP to EOL)

Titus Oil & Gas Production, LLC - El Campeon Fed Com 512H

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 512H

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 512H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	8045 psi at 13108' TVD
Abnormal Temperature	NO 185 Deg. F.

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

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

Hydrogen Sulfide (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 30-025-48138	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 512H
7 OGRID No. 331165	8 Operator Name EARTHSTONE OPERATING LLC	9 Elevation 3174'

¹⁰ Surface Location

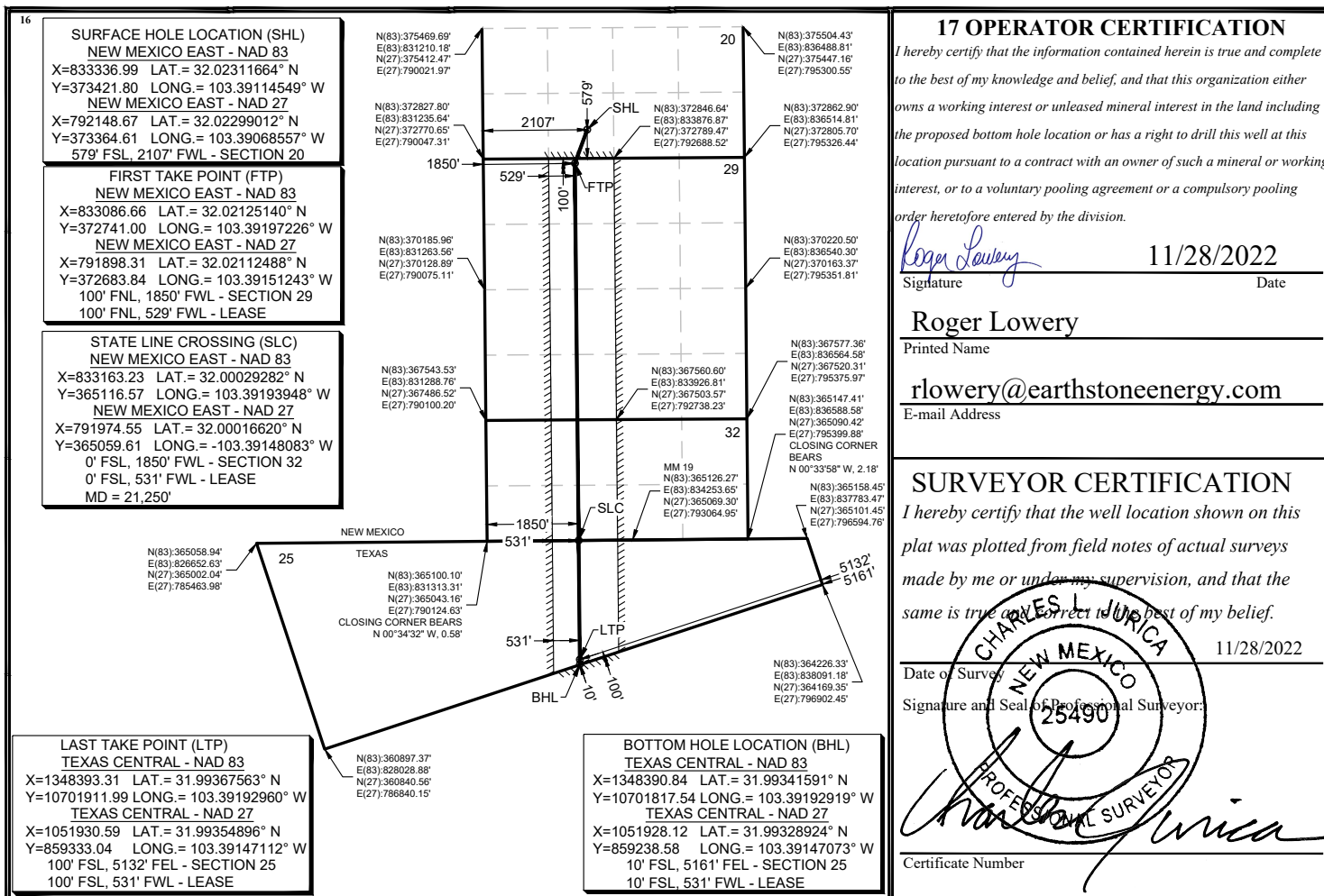
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	20	26-S	35-E		579'	SOUTH	2107'	WEST	LEA

¹¹ State Line Crossing If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County (TX)
1	32	26S	35E	L3	0'	SOUTH	1850'	WEST	LEA

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

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

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



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



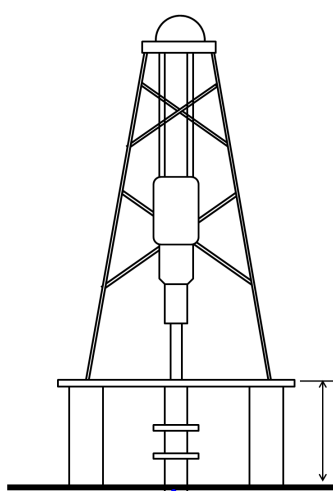
Well Control Plan For 10M MASP Section of Wellbore

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

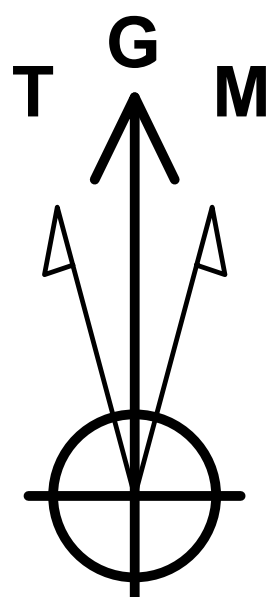


RKB @ 3200.50usft (TBD)
Ground Level: 3174.00

Project: Lea County, NM - (NAD83 NME)
Site: El Campeon Fed Com (NAD83)
Well: El Campeon Fed Com 512H
Wellbore: OH
Design: Plan 1 08-31-22
Rig: TBD



PHOENIX
TECHNOLOGY SERVICES



Azimuths to Grid North
True North: -0.50°
Magnetic North: 5.74°

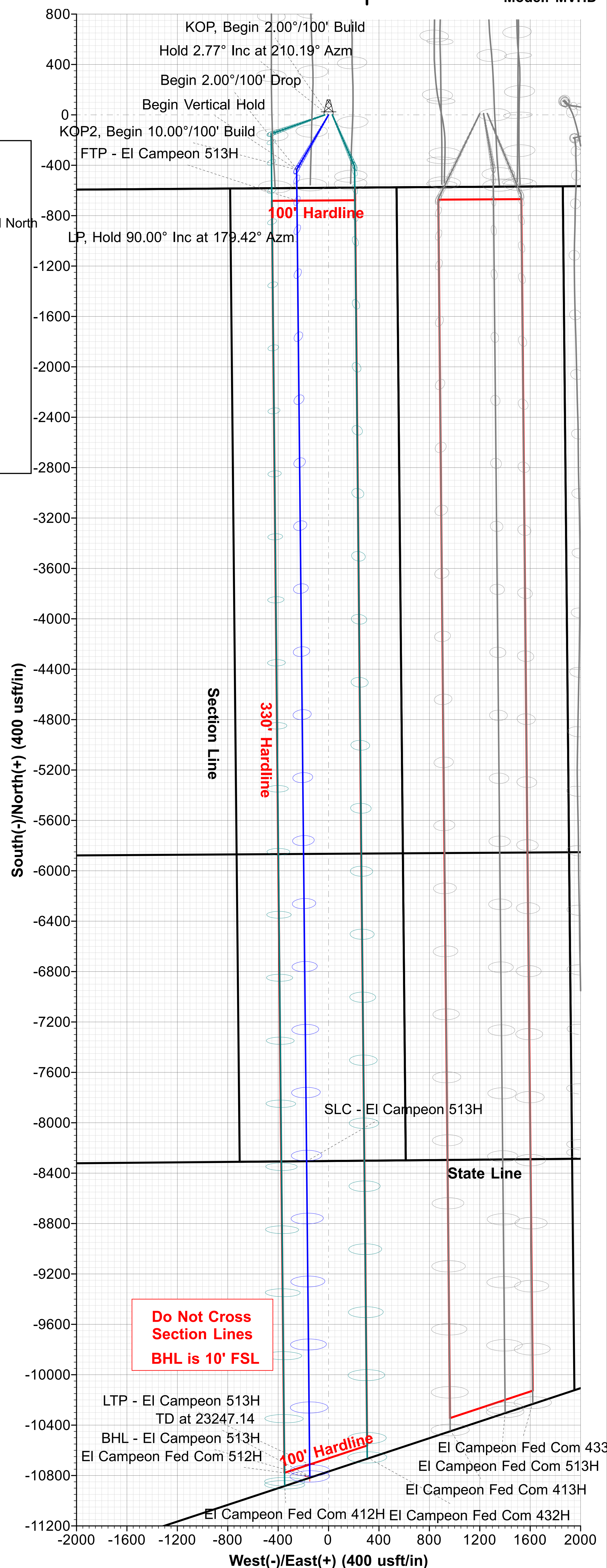
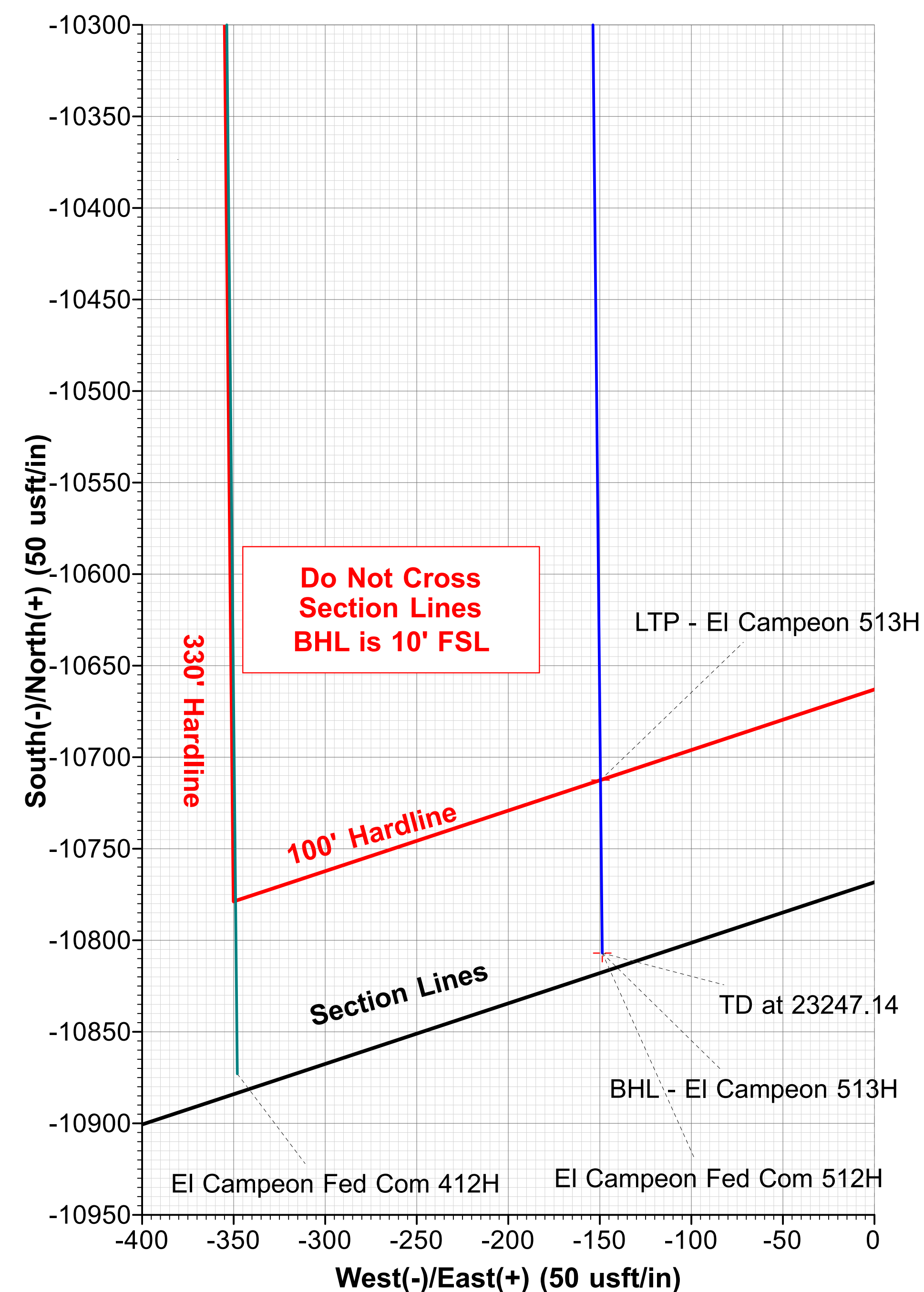
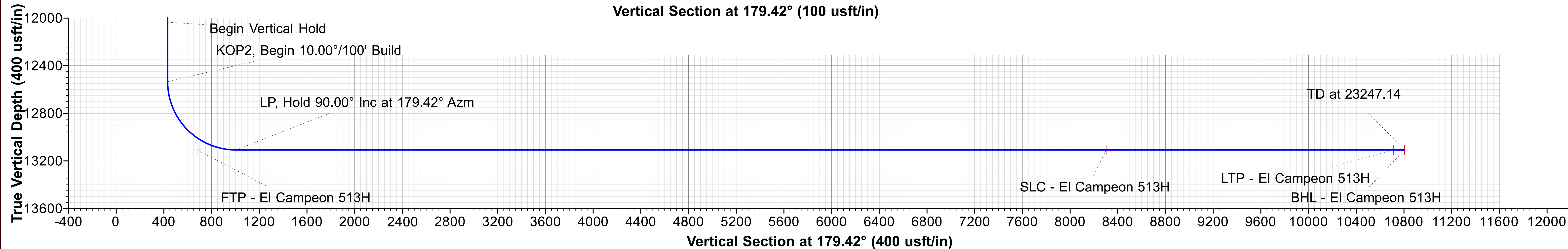
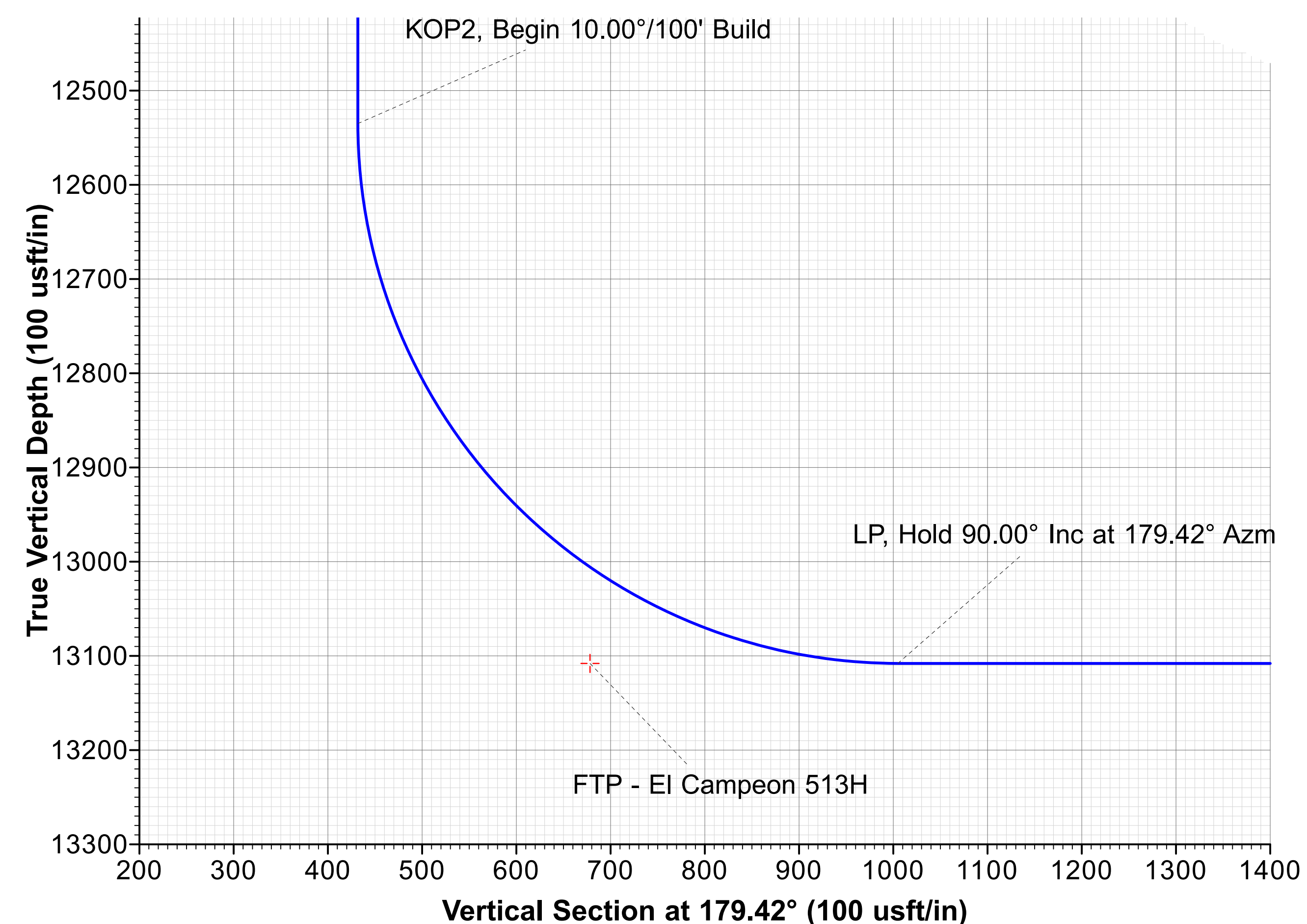
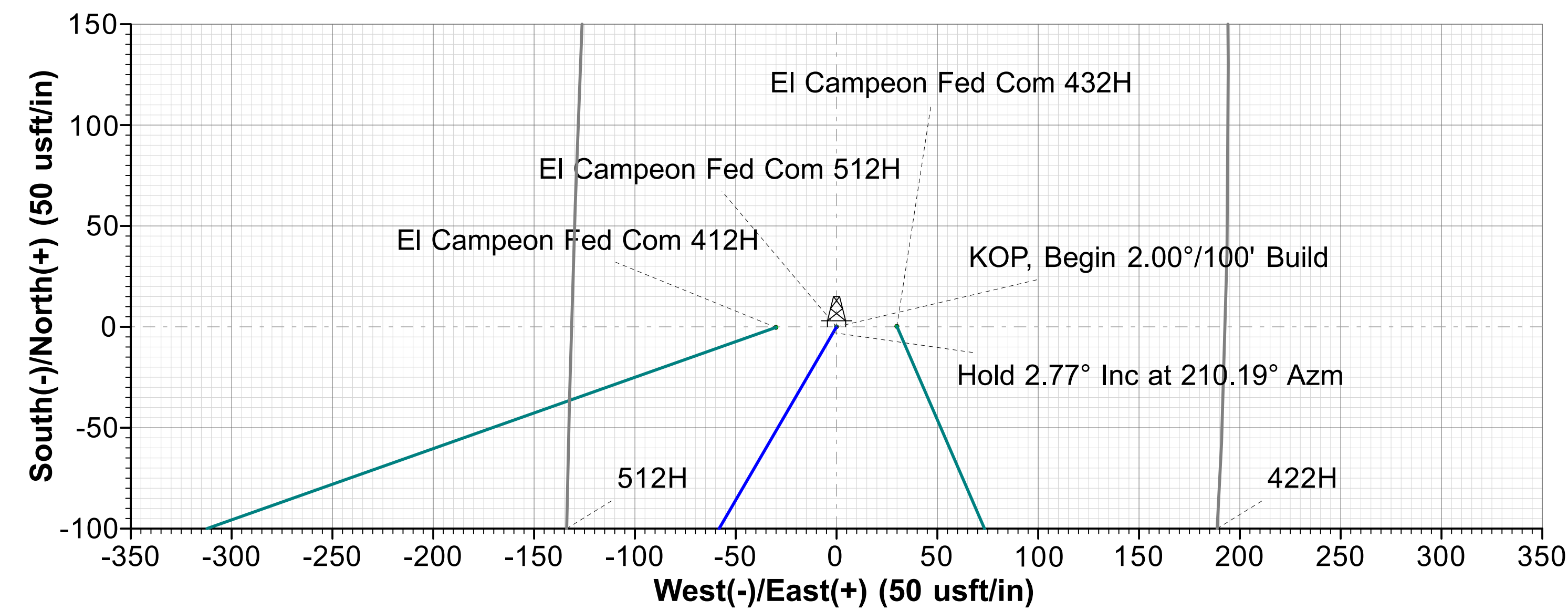
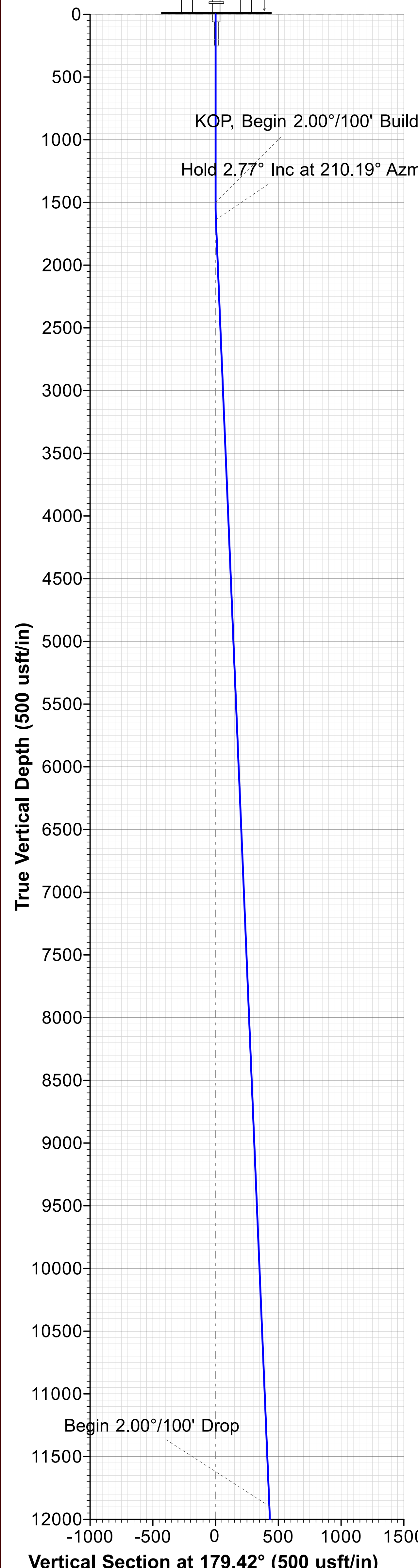
Magnetic Field
Strength: 47316.7nT
Dip Angle: 59.58°
Date: 9/30/2022
Model: MVHD

WELL DETAILS						
			Ground Level:	3174.00		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	373421.80	833336.99	32° 1' 23.219938 N	103° 23' 28.123772 W	

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
BHL - El Campeon 513H	13108.00	-10806.96	-148.63	362614.84	833188.36	31° 59' 36.297222 N	103° 23' 30.943301 W
FTP - El Campeon 513H	13108.00	-680.80	-250.33	372741.00	833086.66	32° 1' 16.504986 N	103° 23' 31.100171 W
LTP - El Campeon 513H	13108.00	-10712.48	-149.58	362709.32	833187.41	31° 59' 37.232192 N	103° 23' 30.944780 W
SLC - El Campeon 513H	13108.00	-8305.23	-173.76	365116.57	833163.23	32° 0' 1.054206 N	103° 23' 30.982173 W

SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00		
2	1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.000	0.00		
3	1638.42	2.77	210.19	1638.36	-2.89	-1.68	2.00	210.191	2.87		
4	11908.72	2.77	210.19	11896.68	-431.64	-251.12	0.00	0.000	429.07		KOP, Begin 2.00°/100' Build
5	12047.14	0.00	0.00	12035.04	-434.53	-252.80	2.00	180.000	431.94		Hold 2.77° Inc at 210.19° Azm
6	12547.14	0.00	0.00	12535.04	-434.53	-252.80	0.00	0.000	431.94		Begin 2.00°/100' Drop
7	13447.14	90.00	179.42	13108.00	-1007.45	-247.05	10.00	179.425	1004.90		Begin Vertical Hold
8	23247.14	90.00	179.42	13108.00	-10806.96	-148.63	0.00	0.000	10804.90	BHL - El Campeon 513H	KOP2, Begin 10.00°/100' Build
											LP, Hold 90.00° Inc at 179.42° Azm
											TD at 23247.14

Map System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone Name: New Mexico Eastern Zone
Local Origin: Well El Campeon Fed Com 512H, Grid North
Latitude: 32° 1' 23.219938 N
Longitude: 103° 23' 28.123772 W
Grid East: 833336.99
Grid North: 373421.80
Scale Factor: 1.000
Geomagnetic Model: MVHD
Sample Date: 30-Sep-22
Magnetic Declination: 6.244°
Dip Angle from Horizontal: 59.579°
Magnetic Field Strength: 47316.65891312nT
To convert a Magnetic Direction to a Grid Direction, Add 5.744°
To convert a Magnetic Direction to a True Direction, Add 6.244° East
To convert a True Direction to a Grid Direction, Subtract 0.500°





Titus Oil & Gas Production, LLC

Lea County, NM - (NAD83 NME)

El Campeon Fed Com (NAD83)

El Campeon Fed Com 512H

OH

Plan: Plan 1 08-31-22

Standard Planning Report

31 August, 2022





Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well El Campeon Fed Com 512H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3200.50usft (TBD)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3200.50usft (TBD)
Site:	El Campeon Fed Com (NAD83)	North Reference:	Grid
Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 08-31-22		

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

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

Well	El Campeon Fed Com 512H					
Well Position	+N/-S	226.17 usft	Northing:	373,421.80 usft	Latitude:	32° 1' 23.219938 N
	+E/-W	27.80 usft	Easting:	833,336.99 usft	Longitude:	103° 23' 28.123772 W
Position Uncertainty		1.00 usft	Wellhead Elevation:		Ground Level:	3,174.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	9/30/2022	6.244	59.579	47,316.65891311

Design	Plan 1 08-31-22			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	179.42

Plan Survey Tool Program	Date	8/31/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	23,247.14 Plan 1 08-31-22 (OH)	MWD+HRGM	
			OWSG MWD + HRGM	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,638.42	2.77	210.19	1,638.36	-2.89	-1.68	2.00	2.00	0.00	210.190	
11,908.72	2.77	210.19	11,896.68	-431.64	-251.12	0.00	0.00	0.00	0.000	
12,047.14	0.00	0.00	12,035.04	-434.53	-252.80	2.00	-2.00	0.00	180.000	
12,547.14	0.00	0.00	12,535.04	-434.53	-252.80	0.00	0.00	0.00	0.000	
13,447.14	90.00	179.42	13,108.00	-1,007.45	-247.05	10.00	10.00	0.00	179.425	
23,247.14	90.00	179.42	13,108.00	-10,806.96	-148.63	0.00	0.00	0.00	0.000	BHL - El Campeon 51



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well El Campeon Fed Com 512H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3200.50usft (TBD)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3200.50usft (TBD)
Site:	El Campeon Fed Com (NAD83)	North Reference:	Grid
Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 08-31-22		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Begin 2.00°/100' Build									
1,600.00	2.00	210.19	1,599.98	-1.51	-0.88	1.50	2.00	2.00	0.00
1,638.42	2.77	210.19	1,638.36	-2.89	-1.68	2.87	2.00	2.00	0.00
Hold 2.77° Inc at 210.19° Azm									
1,700.00	2.77	210.19	1,699.87	-5.46	-3.18	5.43	0.00	0.00	0.00
1,800.00	2.77	210.19	1,799.76	-9.64	-5.61	9.58	0.00	0.00	0.00
1,900.00	2.77	210.19	1,899.64	-13.81	-8.03	13.73	0.00	0.00	0.00
2,000.00	2.77	210.19	1,999.52	-17.98	-10.46	17.88	0.00	0.00	0.00
2,100.00	2.77	210.19	2,099.41	-22.16	-12.89	22.03	0.00	0.00	0.00
2,200.00	2.77	210.19	2,199.29	-26.33	-15.32	26.18	0.00	0.00	0.00
2,300.00	2.77	210.19	2,299.17	-30.51	-17.75	30.33	0.00	0.00	0.00
2,400.00	2.77	210.19	2,399.06	-34.68	-20.18	34.48	0.00	0.00	0.00
2,500.00	2.77	210.19	2,498.94	-38.86	-22.61	38.63	0.00	0.00	0.00
2,600.00	2.77	210.19	2,598.82	-43.03	-25.04	42.78	0.00	0.00	0.00
2,700.00	2.77	210.19	2,698.71	-47.21	-27.46	46.93	0.00	0.00	0.00
2,800.00	2.77	210.19	2,798.59	-51.38	-29.89	51.08	0.00	0.00	0.00
2,900.00	2.77	210.19	2,898.47	-55.56	-32.32	55.23	0.00	0.00	0.00
3,000.00	2.77	210.19	2,998.36	-59.73	-34.75	59.38	0.00	0.00	0.00
3,100.00	2.77	210.19	3,098.24	-63.91	-37.18	63.53	0.00	0.00	0.00
3,200.00	2.77	210.19	3,198.12	-68.08	-39.61	67.68	0.00	0.00	0.00
3,300.00	2.77	210.19	3,298.01	-72.25	-42.04	71.83	0.00	0.00	0.00
3,400.00	2.77	210.19	3,397.89	-76.43	-44.47	75.98	0.00	0.00	0.00
3,500.00	2.77	210.19	3,497.77	-80.60	-46.89	80.12	0.00	0.00	0.00
3,600.00	2.77	210.19	3,597.66	-84.78	-49.32	84.27	0.00	0.00	0.00
3,700.00	2.77	210.19	3,697.54	-88.95	-51.75	88.42	0.00	0.00	0.00
3,800.00	2.77	210.19	3,797.42	-93.13	-54.18	92.57	0.00	0.00	0.00
3,900.00	2.77	210.19	3,897.31	-97.30	-56.61	96.72	0.00	0.00	0.00
4,000.00	2.77	210.19	3,997.19	-101.48	-59.04	100.87	0.00	0.00	0.00
4,100.00	2.77	210.19	4,097.07	-105.65	-61.47	105.02	0.00	0.00	0.00
4,200.00	2.77	210.19	4,196.96	-109.83	-63.90	109.17	0.00	0.00	0.00
4,300.00	2.77	210.19	4,296.84	-114.00	-66.32	113.32	0.00	0.00	0.00
4,400.00	2.77	210.19	4,396.72	-118.18	-68.75	117.47	0.00	0.00	0.00
4,500.00	2.77	210.19	4,496.61	-122.35	-71.18	121.62	0.00	0.00	0.00
4,600.00	2.77	210.19	4,596.49	-126.52	-73.61	125.77	0.00	0.00	0.00
4,700.00	2.77	210.19	4,696.37	-130.70	-76.04	129.92	0.00	0.00	0.00
4,800.00	2.77	210.19	4,796.26	-134.87	-78.47	134.07	0.00	0.00	0.00
4,900.00	2.77	210.19	4,896.14	-139.05	-80.90	138.22	0.00	0.00	0.00
5,000.00	2.77	210.19	4,996.02	-143.22	-83.33	142.37	0.00	0.00	0.00
5,100.00	2.77	210.19	5,095.91	-147.40	-85.75	146.52	0.00	0.00	0.00
5,200.00	2.77	210.19	5,195.79	-151.57	-88.18	150.67	0.00	0.00	0.00
5,300.00	2.77	210.19	5,295.67	-155.75	-90.61	154.82	0.00	0.00	0.00
5,400.00	2.77	210.19	5,395.56	-159.92	-93.04	158.97	0.00	0.00	0.00
5,500.00	2.77	210.19	5,495.44	-164.10	-95.47	163.12	0.00	0.00	0.00
5,600.00	2.77	210.19	5,595.32	-168.27	-97.90	167.27	0.00	0.00	0.00
5,700.00	2.77	210.19	5,695.21	-172.45	-100.33	171.42	0.00	0.00	0.00
5,800.00	2.77	210.19	5,795.09	-176.62	-102.76	175.57	0.00	0.00	0.00
5,900.00	2.77	210.19	5,894.97	-180.79	-105.18	179.72	0.00	0.00	0.00
6,000.00	2.77	210.19	5,994.86	-184.97	-107.61	183.87	0.00	0.00	0.00
6,100.00	2.77	210.19	6,094.74	-189.14	-110.04	188.02	0.00	0.00	0.00
6,200.00	2.77	210.19	6,194.62	-193.32	-112.47	192.17	0.00	0.00	0.00
6,300.00	2.77	210.19	6,294.51	-197.49	-114.90	196.32	0.00	0.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well El Campeon Fed Com 512H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3200.50usft (TBD)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3200.50usft (TBD)
Site:	El Campeon Fed Com (NAD83)	North Reference:	Grid
Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 08-31-22		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,400.00	2.77	210.19	6,394.39	-201.67	-117.33	200.47	0.00	0.00	0.00
6,500.00	2.77	210.19	6,494.27	-205.84	-119.76	204.62	0.00	0.00	0.00
6,600.00	2.77	210.19	6,594.16	-210.02	-122.19	208.77	0.00	0.00	0.00
6,700.00	2.77	210.19	6,694.04	-214.19	-124.61	212.92	0.00	0.00	0.00
6,800.00	2.77	210.19	6,793.92	-218.37	-127.04	217.07	0.00	0.00	0.00
6,900.00	2.77	210.19	6,893.81	-222.54	-129.47	221.22	0.00	0.00	0.00
7,000.00	2.77	210.19	6,993.69	-226.72	-131.90	225.37	0.00	0.00	0.00
7,100.00	2.77	210.19	7,093.57	-230.89	-134.33	229.52	0.00	0.00	0.00
7,200.00	2.77	210.19	7,193.46	-235.06	-136.76	233.67	0.00	0.00	0.00
7,300.00	2.77	210.19	7,293.34	-239.24	-139.19	237.82	0.00	0.00	0.00
7,400.00	2.77	210.19	7,393.22	-243.41	-141.62	241.97	0.00	0.00	0.00
7,500.00	2.77	210.19	7,493.11	-247.59	-144.05	246.12	0.00	0.00	0.00
7,600.00	2.77	210.19	7,592.99	-251.76	-146.47	250.27	0.00	0.00	0.00
7,700.00	2.77	210.19	7,692.87	-255.94	-148.90	254.42	0.00	0.00	0.00
7,800.00	2.77	210.19	7,792.76	-260.11	-151.33	258.57	0.00	0.00	0.00
7,900.00	2.77	210.19	7,892.64	-264.29	-153.76	262.72	0.00	0.00	0.00
8,000.00	2.77	210.19	7,992.52	-268.46	-156.19	266.87	0.00	0.00	0.00
8,100.00	2.77	210.19	8,092.41	-272.64	-158.62	271.02	0.00	0.00	0.00
8,200.00	2.77	210.19	8,192.29	-276.81	-161.05	275.17	0.00	0.00	0.00
8,300.00	2.77	210.19	8,292.17	-280.99	-163.48	279.32	0.00	0.00	0.00
8,400.00	2.77	210.19	8,392.06	-285.16	-165.90	283.47	0.00	0.00	0.00
8,500.00	2.77	210.19	8,491.94	-289.33	-168.33	287.62	0.00	0.00	0.00
8,600.00	2.77	210.19	8,591.82	-293.51	-170.76	291.77	0.00	0.00	0.00
8,700.00	2.77	210.19	8,691.71	-297.68	-173.19	295.92	0.00	0.00	0.00
8,800.00	2.77	210.19	8,791.59	-301.86	-175.62	300.07	0.00	0.00	0.00
8,900.00	2.77	210.19	8,891.47	-306.03	-178.05	304.22	0.00	0.00	0.00
9,000.00	2.77	210.19	8,991.36	-310.21	-180.48	308.36	0.00	0.00	0.00
9,100.00	2.77	210.19	9,091.24	-314.38	-182.91	312.51	0.00	0.00	0.00
9,200.00	2.77	210.19	9,191.12	-318.56	-185.33	316.66	0.00	0.00	0.00
9,300.00	2.77	210.19	9,291.01	-322.73	-187.76	320.81	0.00	0.00	0.00
9,400.00	2.77	210.19	9,390.89	-326.91	-190.19	324.96	0.00	0.00	0.00
9,500.00	2.77	210.19	9,490.77	-331.08	-192.62	329.11	0.00	0.00	0.00
9,600.00	2.77	210.19	9,590.66	-335.26	-195.05	333.26	0.00	0.00	0.00
9,700.00	2.77	210.19	9,690.54	-339.43	-197.48	337.41	0.00	0.00	0.00
9,800.00	2.77	210.19	9,790.42	-343.60	-199.91	341.56	0.00	0.00	0.00
9,900.00	2.77	210.19	9,890.31	-347.78	-202.34	345.71	0.00	0.00	0.00
10,000.00	2.77	210.19	9,990.19	-351.95	-204.76	349.86	0.00	0.00	0.00
10,100.00	2.77	210.19	10,090.07	-356.13	-207.19	354.01	0.00	0.00	0.00
10,200.00	2.77	210.19	10,189.96	-360.30	-209.62	358.16	0.00	0.00	0.00
10,300.00	2.77	210.19	10,289.84	-364.48	-212.05	362.31	0.00	0.00	0.00
10,400.00	2.77	210.19	10,389.72	-368.65	-214.48	366.46	0.00	0.00	0.00
10,500.00	2.77	210.19	10,489.60	-372.83	-216.91	370.61	0.00	0.00	0.00
10,600.00	2.77	210.19	10,589.49	-377.00	-219.34	374.76	0.00	0.00	0.00
10,700.00	2.77	210.19	10,689.37	-381.18	-221.77	378.91	0.00	0.00	0.00
10,800.00	2.77	210.19	10,789.25	-385.35	-224.19	383.06	0.00	0.00	0.00
10,900.00	2.77	210.19	10,889.14	-389.53	-226.62	387.21	0.00	0.00	0.00
11,000.00	2.77	210.19	10,989.02	-393.70	-229.05	391.36	0.00	0.00	0.00
11,100.00	2.77	210.19	11,088.90	-397.87	-231.48	395.51	0.00	0.00	0.00
11,200.00	2.77	210.19	11,188.79	-402.05	-233.91	399.66	0.00	0.00	0.00
11,300.00	2.77	210.19	11,288.67	-406.22	-236.34	403.81	0.00	0.00	0.00
11,400.00	2.77	210.19	11,388.55	-410.40	-238.77	407.96	0.00	0.00	0.00
11,500.00	2.77	210.19	11,488.44	-414.57	-241.20	412.11	0.00	0.00	0.00
11,600.00	2.77	210.19	11,588.32	-418.75	-243.62	416.26	0.00	0.00	0.00
11,700.00	2.77	210.19	11,688.20	-422.92	-246.05	420.41	0.00	0.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well El Campeon Fed Com 512H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3200.50usft (TBD)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3200.50usft (TBD)
Site:	El Campeon Fed Com (NAD83)	North Reference:	Grid
Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 08-31-22		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,800.00	2.77	210.19	11,788.09	-427.10	-248.48	424.56	0.00	0.00	0.00
11,900.00	2.77	210.19	11,887.97	-431.27	-250.91	428.71	0.00	0.00	0.00
11,908.72	2.77	210.19	11,896.68	-431.64	-251.12	429.07	0.00	0.00	0.00
Begin 2.00°/100' Drop									
12,000.00	0.94	210.19	11,987.91	-434.19	-252.61	431.61	2.00	-2.00	0.00
12,047.14	0.00	0.00	12,035.04	-434.53	-252.80	431.94	2.00	-2.00	0.00
Begin Vertical Hold									
12,547.14	0.00	0.00	12,535.04	-434.53	-252.80	431.94	0.00	0.00	0.00
KOP2, Begin 10.00°/100' Build									
12,600.00	5.29	179.42	12,587.83	-436.96	-252.78	434.38	10.00	10.00	0.00
12,700.00	15.29	179.42	12,686.10	-454.80	-252.60	452.22	10.00	10.00	0.00
12,800.00	25.29	179.42	12,779.78	-489.42	-252.25	486.84	10.00	10.00	0.00
12,900.00	35.29	179.42	12,866.02	-539.79	-251.75	537.21	10.00	10.00	0.00
13,000.00	45.29	179.42	12,942.21	-604.36	-251.10	601.79	10.00	10.00	0.00
13,100.00	55.29	179.42	13,006.02	-681.19	-250.33	678.62	10.00	10.00	0.00
13,200.00	65.29	179.42	13,055.52	-767.92	-249.46	765.36	10.00	10.00	0.00
13,300.00	75.29	179.42	13,089.21	-861.94	-248.51	859.38	10.00	10.00	0.00
13,400.00	85.29	179.42	13,106.06	-960.37	-247.52	957.82	10.00	10.00	0.00
13,447.14	90.00	179.42	13,108.00	-1,007.45	-247.05	1,004.90	10.00	10.00	0.00
LP, Hold 90.00° Inc at 179.42° Azm									
13,500.00	90.00	179.42	13,108.00	-1,060.32	-246.52	1,057.77	0.00	0.00	0.00
13,600.00	90.00	179.42	13,108.00	-1,160.31	-245.51	1,157.77	0.00	0.00	0.00
13,700.00	90.00	179.42	13,108.00	-1,260.31	-244.51	1,257.77	0.00	0.00	0.00
13,800.00	90.00	179.42	13,108.00	-1,360.30	-243.51	1,357.77	0.00	0.00	0.00
13,900.00	90.00	179.42	13,108.00	-1,460.30	-242.50	1,457.77	0.00	0.00	0.00
14,000.00	90.00	179.42	13,108.00	-1,560.29	-241.50	1,557.77	0.00	0.00	0.00
14,100.00	90.00	179.42	13,108.00	-1,660.29	-240.49	1,657.77	0.00	0.00	0.00
14,200.00	90.00	179.42	13,108.00	-1,760.28	-239.49	1,757.77	0.00	0.00	0.00
14,300.00	90.00	179.42	13,108.00	-1,860.28	-238.48	1,857.77	0.00	0.00	0.00
14,400.00	90.00	179.42	13,108.00	-1,960.27	-237.48	1,957.77	0.00	0.00	0.00
14,500.00	90.00	179.42	13,108.00	-2,060.27	-236.48	2,057.77	0.00	0.00	0.00
14,600.00	90.00	179.42	13,108.00	-2,160.26	-235.47	2,157.77	0.00	0.00	0.00
14,700.00	90.00	179.42	13,108.00	-2,260.26	-234.47	2,257.77	0.00	0.00	0.00
14,800.00	90.00	179.42	13,108.00	-2,360.25	-233.46	2,357.77	0.00	0.00	0.00
14,900.00	90.00	179.42	13,108.00	-2,460.25	-232.46	2,457.77	0.00	0.00	0.00
15,000.00	90.00	179.42	13,108.00	-2,560.24	-231.45	2,557.77	0.00	0.00	0.00
15,100.00	90.00	179.42	13,108.00	-2,660.24	-230.45	2,657.77	0.00	0.00	0.00
15,200.00	90.00	179.42	13,108.00	-2,760.23	-229.45	2,757.77	0.00	0.00	0.00
15,300.00	90.00	179.42	13,108.00	-2,860.23	-228.44	2,857.77	0.00	0.00	0.00
15,400.00	90.00	179.42	13,108.00	-2,960.22	-227.44	2,957.77	0.00	0.00	0.00
15,500.00	90.00	179.42	13,108.00	-3,060.22	-226.43	3,057.77	0.00	0.00	0.00
15,600.00	90.00	179.42	13,108.00	-3,160.21	-225.43	3,157.77	0.00	0.00	0.00
15,700.00	90.00	179.42	13,108.00	-3,260.21	-224.42	3,257.77	0.00	0.00	0.00
15,800.00	90.00	179.42	13,108.00	-3,360.20	-223.42	3,357.77	0.00	0.00	0.00
15,900.00	90.00	179.42	13,108.00	-3,460.20	-222.42	3,457.77	0.00	0.00	0.00
16,000.00	90.00	179.42	13,108.00	-3,560.19	-221.41	3,557.77	0.00	0.00	0.00
16,100.00	90.00	179.42	13,108.00	-3,660.19	-220.41	3,657.77	0.00	0.00	0.00
16,200.00	90.00	179.42	13,108.00	-3,760.18	-219.40	3,757.77	0.00	0.00	0.00
16,300.00	90.00	179.42	13,108.00	-3,860.18	-218.40	3,857.77	0.00	0.00	0.00
16,400.00	90.00	179.42	13,108.00	-3,960.17	-217.39	3,957.77	0.00	0.00	0.00
16,500.00	90.00	179.42	13,108.00	-4,060.17	-216.39	4,057.77	0.00	0.00	0.00
16,600.00	90.00	179.42	13,108.00	-4,160.16	-215.39	4,157.77	0.00	0.00	0.00
16,700.00	90.00	179.42	13,108.00	-4,260.15	-214.38	4,257.77	0.00	0.00	0.00
16,800.00	90.00	179.42	13,108.00	-4,360.15	-213.38	4,357.77	0.00	0.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well El Campeon Fed Com 512H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3200.50usft (TBD)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3200.50usft (TBD)
Site:	El Campeon Fed Com (NAD83)	North Reference:	Grid
Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 08-31-22		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,900.00	90.00	179.42	13,108.00	-4,460.14	-212.37	4,457.77	0.00	0.00	0.00
17,000.00	90.00	179.42	13,108.00	-4,560.14	-211.37	4,557.77	0.00	0.00	0.00
17,100.00	90.00	179.42	13,108.00	-4,660.13	-210.36	4,657.77	0.00	0.00	0.00
17,200.00	90.00	179.42	13,108.00	-4,760.13	-209.36	4,757.77	0.00	0.00	0.00
17,300.00	90.00	179.42	13,108.00	-4,860.12	-208.36	4,857.77	0.00	0.00	0.00
17,400.00	90.00	179.42	13,108.00	-4,960.12	-207.35	4,957.77	0.00	0.00	0.00
17,500.00	90.00	179.42	13,108.00	-5,060.11	-206.35	5,057.77	0.00	0.00	0.00
17,600.00	90.00	179.42	13,108.00	-5,160.11	-205.34	5,157.77	0.00	0.00	0.00
17,700.00	90.00	179.42	13,108.00	-5,260.10	-204.34	5,257.77	0.00	0.00	0.00
17,800.00	90.00	179.42	13,108.00	-5,360.10	-203.33	5,357.77	0.00	0.00	0.00
17,900.00	90.00	179.42	13,108.00	-5,460.09	-202.33	5,457.77	0.00	0.00	0.00
18,000.00	90.00	179.42	13,108.00	-5,560.09	-201.33	5,557.77	0.00	0.00	0.00
18,100.00	90.00	179.42	13,108.00	-5,660.08	-200.32	5,657.77	0.00	0.00	0.00
18,200.00	90.00	179.42	13,108.00	-5,760.08	-199.32	5,757.77	0.00	0.00	0.00
18,300.00	90.00	179.42	13,108.00	-5,860.07	-198.31	5,857.77	0.00	0.00	0.00
18,400.00	90.00	179.42	13,108.00	-5,960.07	-197.31	5,957.77	0.00	0.00	0.00
18,500.00	90.00	179.42	13,108.00	-6,060.06	-196.30	6,057.77	0.00	0.00	0.00
18,600.00	90.00	179.42	13,108.00	-6,160.06	-195.30	6,157.77	0.00	0.00	0.00
18,700.00	90.00	179.42	13,108.00	-6,260.05	-194.30	6,257.77	0.00	0.00	0.00
18,800.00	90.00	179.42	13,108.00	-6,360.05	-193.29	6,357.77	0.00	0.00	0.00
18,900.00	90.00	179.42	13,108.00	-6,460.04	-192.29	6,457.77	0.00	0.00	0.00
19,000.00	90.00	179.42	13,108.00	-6,560.04	-191.28	6,557.77	0.00	0.00	0.00
19,100.00	90.00	179.42	13,108.00	-6,660.03	-190.28	6,657.77	0.00	0.00	0.00
19,200.00	90.00	179.42	13,108.00	-6,760.03	-189.27	6,757.77	0.00	0.00	0.00
19,300.00	90.00	179.42	13,108.00	-6,860.02	-188.27	6,857.77	0.00	0.00	0.00
19,400.00	90.00	179.42	13,108.00	-6,960.02	-187.27	6,957.77	0.00	0.00	0.00
19,500.00	90.00	179.42	13,108.00	-7,060.01	-186.26	7,057.77	0.00	0.00	0.00
19,600.00	90.00	179.42	13,108.00	-7,160.01	-185.26	7,157.77	0.00	0.00	0.00
19,700.00	90.00	179.42	13,108.00	-7,260.00	-184.25	7,257.77	0.00	0.00	0.00
19,800.00	90.00	179.42	13,108.00	-7,360.00	-183.25	7,357.77	0.00	0.00	0.00
19,900.00	90.00	179.42	13,108.00	-7,459.99	-182.24	7,457.77	0.00	0.00	0.00
20,000.00	90.00	179.42	13,108.00	-7,559.99	-181.24	7,557.77	0.00	0.00	0.00
20,100.00	90.00	179.42	13,108.00	-7,659.98	-180.24	7,657.77	0.00	0.00	0.00
20,200.00	90.00	179.42	13,108.00	-7,759.98	-179.23	7,757.77	0.00	0.00	0.00
20,300.00	90.00	179.42	13,108.00	-7,859.97	-178.23	7,857.77	0.00	0.00	0.00
20,400.00	90.00	179.42	13,108.00	-7,959.97	-177.22	7,957.77	0.00	0.00	0.00
20,500.00	90.00	179.42	13,108.00	-8,059.96	-176.22	8,057.77	0.00	0.00	0.00
20,600.00	90.00	179.42	13,108.00	-8,159.96	-175.21	8,157.77	0.00	0.00	0.00
20,700.00	90.00	179.42	13,108.00	-8,259.95	-174.21	8,257.77	0.00	0.00	0.00
20,800.00	90.00	179.42	13,108.00	-8,359.95	-173.21	8,357.77	0.00	0.00	0.00
20,900.00	90.00	179.42	13,108.00	-8,459.94	-172.20	8,457.77	0.00	0.00	0.00
21,000.00	90.00	179.42	13,108.00	-8,559.94	-171.20	8,557.77	0.00	0.00	0.00
21,100.00	90.00	179.42	13,108.00	-8,659.93	-170.19	8,657.77	0.00	0.00	0.00
21,200.00	90.00	179.42	13,108.00	-8,759.93	-169.19	8,757.77	0.00	0.00	0.00
21,300.00	90.00	179.42	13,108.00	-8,859.92	-168.18	8,857.77	0.00	0.00	0.00
21,400.00	90.00	179.42	13,108.00	-8,959.92	-167.18	8,957.77	0.00	0.00	0.00
21,500.00	90.00	179.42	13,108.00	-9,059.91	-166.18	9,057.77	0.00	0.00	0.00
21,600.00	90.00	179.42	13,108.00	-9,159.91	-165.17	9,157.77	0.00	0.00	0.00
21,700.00	90.00	179.42	13,108.00	-9,259.90	-164.17	9,257.77	0.00	0.00	0.00
21,800.00	90.00	179.42	13,108.00	-9,359.90	-163.16	9,357.77	0.00	0.00	0.00
21,900.00	90.00	179.42	13,108.00	-9,459.89	-162.16	9,457.77	0.00	0.00	0.00
22,000.00	90.00	179.42	13,108.00	-9,559.89	-161.15	9,557.77	0.00	0.00	0.00
22,100.00	90.00	179.42	13,108.00	-9,659.88	-160.15	9,657.77	0.00	0.00	0.00
22,200.00	90.00	179.42	13,108.00	-9,759.88	-159.15	9,757.77	0.00	0.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well El Campeon Fed Com 512H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3200.50usft (TBD)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3200.50usft (TBD)
Site:	El Campeon Fed Com (NAD83)	North Reference:	Grid
Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 08-31-22		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
22,300.00	90.00	179.42	13,108.00	-9,859.87	-158.14	9,857.77	0.00	0.00	0.00	
22,400.00	90.00	179.42	13,108.00	-9,959.87	-157.14	9,957.77	0.00	0.00	0.00	
22,500.00	90.00	179.42	13,108.00	-10,059.86	-156.13	10,057.77	0.00	0.00	0.00	
22,600.00	90.00	179.42	13,108.00	-10,159.86	-155.13	10,157.77	0.00	0.00	0.00	
22,700.00	90.00	179.42	13,108.00	-10,259.85	-154.12	10,257.77	0.00	0.00	0.00	
22,800.00	90.00	179.42	13,108.00	-10,359.85	-153.12	10,357.77	0.00	0.00	0.00	
22,900.00	90.00	179.42	13,108.00	-10,459.84	-152.12	10,457.77	0.00	0.00	0.00	
23,000.00	90.00	179.42	13,108.00	-10,559.84	-151.11	10,557.77	0.00	0.00	0.00	
23,100.00	90.00	179.42	13,108.00	-10,659.83	-150.11	10,657.77	0.00	0.00	0.00	
23,200.00	90.00	179.42	13,108.00	-10,759.83	-149.10	10,757.77	0.00	0.00	0.00	
23,247.14	90.00	179.42	13,108.00	-10,806.96	-148.63	10,804.90	0.00	0.00	0.00	
TD at 23247.14										

Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
FTP - El Campeon 513H - plan misses target center by 86.58usft at 13150.28usft MD (13032.80 TVD, -723.71 N, -249.90 E) - Point	0.00	0.00	13,108.00	-680.80	-250.33	372,741.00	833,086.66	32° 1' 16.504986 N 103° 23' 31.100171 W		
BHL - El Campeon 513H - plan hits target center - Point	0.00	0.00	13,108.00	-10,806.96	-148.63	362,614.84	833,188.36	31° 59' 36.297223 N 103° 23' 30.943301 W		
LTP - El Campeon 513H - plan hits target center - Point	0.00	0.00	13,108.00	-10,712.48	-149.58	362,709.32	833,187.41	31° 59' 37.232192 N 103° 23' 30.944780 W		
SLC - El Campeon 513H - plan hits target center - Point	0.00	0.00	13,108.00	-8,305.23	-173.76	365,116.57	833,163.23	32° 0' 1.054206 N 103° 23' 30.982173 W		

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
23,566.55		20" Casing		20	24

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
1,500.00	1,500.00	0.00	0.00	KOP, Begin 2.00°/100' Build	
1,638.42	1,638.36	-2.89	-1.68	Hold 2.77° Inc at 210.19° Azm	
11,908.72	11,896.68	-431.64	-251.12	Begin 2.00°/100' Drop	
12,047.14	12,035.04	-434.53	-252.80	Begin Vertical Hold	
12,547.14	12,535.04	-434.53	-252.80	KOP2, Begin 10.00°/100' Build	
13,447.14	13,108.00	-1,007.45	-247.05	LP, Hold 90.00° Inc at 179.42° Azm	
23,247.14	13,108.00	-10,806.96	-148.63	TD at 23247.14	



Titus Oil & Gas Production, LLC

Lea County, NM - (NAD83 NME)

El Campeon Fed Com (NAD83)

El Campeon Fed Com 512H

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

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

Survey Tool Program	Date	8/31/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	23,247.14	Plan 1 08-31-22 (OH)	MWD+HRGM	OWSG MWD + HRGM

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Cattleman Fed Com 3						
Cattleman Fed Com 123H - OH / 69915 - Surveys (H&P 6	10,664.01	18,748.05	1,120.45	980.60	8.012	CC, ES, SF
Cattleman Fed Com 213H - OH / 69914 - Surveys (H&P 6	11,016.84	19,127.17	1,729.34	1,587.71	12.210	CC, ES
Cattleman Fed Com 213H - OH / 69914 - Surveys (H&P 6	11,100.00	19,128.15	1,731.34	1,589.05	12.167	SF
Cattleman Fed Com 4						
Cattleman Fed Com 114H - OH / 69918 - Surveys (H&P 6	10,495.99	18,530.39	2,404.71	2,263.16	16.988	CC
Cattleman Fed Com 114H - OH / 69918 - Surveys (H&P 6	10,500.00	18,530.67	2,404.71	2,263.14	16.986	ES
Cattleman Fed Com 114H - OH / 69918 - Surveys (H&P 6	10,600.00	18,537.78	2,406.95	2,264.96	16.952	SF
Cattleman Fed Com 204H - OH / 69917 - Surveys H&P 6	10,874.43	19,118.54	3,066.85	2,919.90	20.869	CC
Cattleman Fed Com 204H - OH / 69917 - Surveys H&P 6	10,900.00	19,118.05	3,066.96	2,919.82	20.844	ES
Cattleman Fed Com 204H - OH / 69917 - Surveys H&P 6	11,200.00	19,112.18	3,084.08	2,935.22	20.718	SF
Cattlemen Fed Com						
403H - OH / 68704 - Surveys (H&P 656)	12,564.02	20,818.00	1,767.38	1,614.61	11.569	CC, ES
403H - OH / 68704 - Surveys (H&P 656)	12,600.00	20,829.78	1,767.72	1,614.91	11.568	SF
422H - OH / 68635 - Surveys (H&P 625)	12,704.10	20,893.82	430.33	278.05	2.826	CC, ES, SF
432H - OH / 68636 - Surveys (H&P 625)	12,750.29	21,002.02	176.88	23.42	1.153	Level 3, CC, ES, SF
433H - OH / 68696 - Surveys (H&P 656)	12,747.05	21,192.05	1,172.45	1,019.56	7.669	CC
433H - OH / 68696 - Surveys (H&P 656)	12,750.00	21,193.18	1,172.45	1,019.55	7.668	ES
433H - OH / 68696 - Surveys (H&P 656)	12,800.00	21,214.47	1,173.35	1,020.27	7.665	SF
512H - OH / 68637 - Surveys (H&P 625)	13,020.20	21,477.00	141.74	1.33	1.009	Level 3, CC, ES, SF
513H - OH / 68705 - Surveys (H&P 656)	12,971.08	21,358.98	1,606.73	1,450.89	10.310	CC
513H - OH / 68705 - Surveys (H&P 656)	13,000.00	21,375.59	1,606.96	1,450.70	10.284	ES
513H - OH / 68705 - Surveys (H&P 656)	13,200.00	21,474.00	1,618.89	1,459.89	10.182	SF
Cattlemen Fed Com - Deep						
Cattleman Fed Com 404H - OH / 67732 - Surveys (H&P 4	12,530.94	20,939.40	3,067.48	2,916.61	20.332	CC
Cattleman Fed Com 404H - OH / 67732 - Surveys (H&P 4	12,547.14	20,940.15	3,067.52	2,916.59	20.323	ES
Cattleman Fed Com 404H - OH / 67732 - Surveys (H&P 4	13,447.14	20,964.00	3,156.13	2,997.99	19.958	SF
Cattleman Fed Com 434H - OH / 67733 - Surveys (H&P 4	12,693.28	20,992.28	2,444.36	2,296.31	16.510	CC
Cattleman Fed Com 434H - OH / 67733 - Surveys (H&P 4	12,700.00	20,993.66	2,444.37	2,296.29	16.507	ES
Cattleman Fed Com 434H - OH / 67733 - Surveys (H&P 4	13,100.00	21,131.00	2,470.66	2,319.39	16.333	SF
Cattleman Fed Com 514H - OH / 67734 - Surveys (H&P 4	13,016.87	21,341.00	2,924.02	2,776.73	19.851	CC
Cattleman Fed Com 514H - OH / 67734 - Surveys (H&P 4	13,050.00	21,341.00	2,924.25	2,776.60	19.806	ES
Cattleman Fed Com 514H - OH / 67734 - Surveys (H&P 4	13,500.00	21,341.00	2,968.90	2,816.69	19.505	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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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)	9,311.65	9,383.74	2,137.15	2,084.06	40.249	CC, ES
214H - OH / 68221 - Surveys (H&P 474)	20,900.00	18,808.00	3,105.43	2,912.53	16.098	SF
404H - OH / 68222 - Surveys (H&P 474)	274.31	272.31	2,582.13	2,579.06	840.104	CC
404H - OH / 68222 - Surveys (H&P 474)	1,200.00	1,185.45	2,586.44	2,578.19	313.579	ES
404H - OH / 68222 - Surveys (H&P 474)	21,000.00	20,525.00	3,109.77	2,860.35	12.468	SF
434H - OH / 68223 - Surveys (H&P 474)	8,335.32	8,426.00	2,083.73	2,034.87	42.649	CC, ES
434H - OH / 68223 - Surveys (H&P 474)	20,900.00	20,912.00	2,489.23	2,243.02	10.110	SF
514H - OH / 68224 - Suveys (H&P 474)	1,169.29	1,167.33	2,547.80	2,539.67	313.606	CC
514H - OH / 68224 - Suveys (H&P 474)	20,800.00	20,918.00	2,754.54	2,504.98	11.037	ES
514H - OH / 68224 - Suveys (H&P 474)	21,000.00	20,918.00	2,766.63	2,515.24	11.006	SF
El Campeon Fed Com (NAD83)						
El Campeon Fed Com 412H - OH - Plan 1 08-31-22	1,500.00	1,500.00	30.01	20.45	3.138	CC, ES
El Campeon Fed Com 412H - OH - Plan 1 08-31-22	23,247.14	23,060.26	511.70	294.21	2.353	SF
El Campeon Fed Com 413H - OH - Plan 1 08-31-22	11,383.97	11,418.39	1,139.76	1,100.89	29.319	CC
El Campeon Fed Com 413H - OH - Plan 1 08-31-22	22,900.00	22,199.47	1,210.38	928.07	4.287	ES, SF
El Campeon Fed Com 432H - OH - Plan 1 08-31-22	1,500.00	1,500.00	30.00	20.44	3.137	CC, ES
El Campeon Fed Com 432H - OH - Plan 1 08-31-22	23,100.89	22,752.88	586.44	322.63	2.223	SF
El Campeon Fed Com 433H - OH - Plan 1 08-31-22	1,416.33	1,417.33	1,260.21	1,250.94	135.889	CC
El Campeon Fed Com 433H - OH - Plan 1 08-31-22	1,500.00	1,500.00	1,260.21	1,250.65	131.754	ES
El Campeon Fed Com 433H - OH - Plan 1 08-31-22	22,700.00	22,125.24	1,809.46	1,515.47	6.155	SF
El Campeon Fed Com 513H - OH - Plan 1 08-31-22	1,500.00	1,500.00	1,230.23	1,220.67	128.620	CC, ES
El Campeon Fed Com 513H - OH - Plan 1 08-31-22	22,800.00	22,728.24	1,556.05	1,255.78	5.182	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		Offset Wellbore Centre		Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	56.29	6.29	1.00	1.07	8.433	7,690.45	1,140.14	7,774.51					
100.00	100.00	168.86	118.86	1.08	1.50	8.431	7,690.32	1,139.82	7,774.35	7,771.77	2.58	3,015.082		
200.00	200.00	271.62	221.62	1.60	2.07	8.428	7,690.10	1,139.35	7,774.07	7,770.41	3.66	2,126.584		
300.00	300.00	368.38	318.38	2.01	2.62	8.425	7,689.89	1,139.01	7,773.81	7,769.21	4.60	1,689.555		
400.00	400.00	463.56	413.56	2.35	3.10	8.423	7,689.75	1,138.65	7,773.60	7,768.19	5.41	1,436.310		
500.00	500.00	558.03	508.02	2.65	3.39	8.420	7,689.67	1,138.24	7,773.46	7,767.48	5.98	1,300.198		
600.00	600.00	662.58	612.57	2.93	3.64	8.416	7,689.62	1,137.71	7,773.34	7,766.87	6.46	1,202.425		
665.39	665.39	715.40	665.39	3.09	3.76	8.414	7,689.62	1,137.40	7,773.29	7,766.56	6.72	1,155.893		
700.00	700.00	750.00	699.99	3.18	3.84	8.412	7,689.67	1,137.19	7,773.31	7,766.43	6.88	1,130.571		
800.00	800.00	848.04	798.03	3.41	4.05	8.408	7,689.81	1,136.63	7,773.36	7,766.08	7.28	1,067.736		
900.00	900.00	947.63	897.62	3.64	4.28	8.403	7,689.95	1,135.98	7,773.40	7,765.73	7.67	1,013.420		
1,000.00	1,000.00	1,056.37	1,006.36	3.85	4.52	8.398	7,690.03	1,135.32	7,773.38	7,765.32	8.06	964.120		
1,100.00	1,100.00	1,156.00	1,105.99	4.05	4.71	8.394	7,689.98	1,134.80	7,773.26	7,764.87	8.39	926.184		
1,200.00	1,200.00	1,278.81	1,228.79	4.24	5.06	8.391	7,689.78	1,134.30	7,773.04	7,764.15	8.89	874.294		
1,300.00	1,300.00	1,394.00	1,343.98	4.43	5.33	8.387	7,689.21	1,133.71	7,772.47	7,763.16	9.31	834.748		
1,400.00	1,400.00	1,488.00	1,437.98	4.61	5.52	8.385	7,688.76	1,133.33	7,771.93	7,762.27	9.66	804.900		
1,500.00	1,500.00	1,566.63	1,516.61	4.78	5.63	8.385	7,688.56	1,133.25	7,771.65	7,761.70	9.95	781.277		
1,506.38	1,506.38	1,572.48	1,522.46	4.79	5.64	158.194	7,688.55	1,133.25	7,771.64	7,761.67	9.97	779.744		
1,600.00	1,599.98	1,691.73	1,641.70	4.99	5.78	158.192	7,688.11	1,133.36	7,772.93	7,762.61	10.32	752.977		
1,638.42	1,638.36	1,716.93	1,666.90	5.04	5.82	158.185	7,688.01	1,133.36	7,774.26	7,763.84	10.41	746.492		
1,700.00	1,699.87	1,772.00	1,721.98	5.10	5.91	158.192	7,687.86	1,133.30	7,776.84	7,766.28	10.56	736.200		

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 3 - Cattleman Fed Com 123H - OH / 69915 - Surveys (H&P 616)												Offset Site Error:	0.00 usft
Survey Program: 206-MWD+HRGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Offset												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
1,800.00	1,799.76	1,863.82	1,813.80	5.26	6.05	158.204	7,687.70	1,133.26	7,781.14	7,770.28	10.85	716.966	
1,900.00	1,899.64	1,966.97	1,916.95	5.44	6.20	158.217	7,687.50	1,133.14	7,785.42	7,774.23	11.18	696.271	
2,000.00	1,999.52	2,059.12	2,009.09	5.64	6.37	158.228	7,687.37	1,132.96	7,789.74	7,778.22	11.52	676.412	
2,100.00	2,099.41	2,168.04	2,118.02	5.84	6.48	158.245	7,687.08	1,133.21	7,793.99	7,782.13	11.86	657.430	
2,200.00	2,199.29	2,244.08	2,194.06	6.07	6.51	158.259	7,686.94	1,133.70	7,798.39	7,786.24	12.15	641.938	
2,300.00	2,299.17	2,338.00	2,287.97	6.30	6.53	158.276	7,686.89	1,134.41	7,802.94	7,790.49	12.45	626.579	
2,400.00	2,399.06	2,414.60	2,364.57	6.54	6.62	158.286	7,687.08	1,134.43	7,807.68	7,794.92	12.76	611.923	
2,500.00	2,498.94	2,432.00	2,381.97	6.79	6.63	158.287	7,687.19	1,134.28	7,813.05	7,800.04	13.01	600.565	
2,600.00	2,598.82	2,481.52	2,431.46	7.04	6.77	158.285	7,688.02	1,133.19	7,819.12	7,805.75	13.37	584.782	
2,700.00	2,698.71	2,526.00	2,475.88	7.31	6.91	158.275	7,689.60	1,131.23	7,826.26	7,812.53	13.73	570.117	
2,800.00	2,798.59	2,526.00	2,475.88	7.58	6.91	158.275	7,689.60	1,131.23	7,834.23	7,820.25	13.97	560.678	
2,900.00	2,898.47	2,577.61	2,527.34	7.85	7.04	158.258	7,692.18	1,128.43	7,842.99	7,828.71	14.29	548.951	
3,000.00	2,998.36	18,774.92	10,679.19	8.13	118.87	-118.543	-412.43	899.11	7,745.43	7,667.76	77.67	99.720	
3,100.00	3,098.24	18,774.57	10,679.21	8.41	118.87	-118.561	-412.08	899.11	7,646.50	7,568.66	77.84	98.239	
3,200.00	3,198.12	18,774.22	10,679.22	8.70	118.86	-118.579	-411.73	899.11	7,547.59	7,469.59	78.00	96.760	
3,300.00	3,298.01	18,773.87	10,679.24	8.99	118.86	-118.597	-411.38	899.11	7,448.72	7,370.54	78.18	95.282	
3,400.00	3,397.89	18,773.51	10,679.26	9.28	118.85	-118.615	-411.03	899.12	7,349.87	7,271.52	78.35	93.806	
3,500.00	3,497.77	18,773.16	10,679.27	9.58	118.85	-118.633	-410.68	899.12	7,251.06	7,172.52	78.53	92.332	
3,600.00	3,597.66	18,772.81	10,679.29	9.88	118.84	-118.650	-410.33	899.12	7,152.27	7,073.56	78.72	90.859	
3,700.00	3,697.54	18,772.46	10,679.30	10.18	118.84	-118.668	-409.98	899.12	7,053.53	6,974.62	78.91	89.388	
3,800.00	3,797.42	18,772.11	10,679.32	10.49	118.83	-118.686	-409.63	899.12	6,954.81	6,875.71	79.10	87.920	
3,900.00	3,897.31	18,771.76	10,679.34	10.79	118.83	-118.704	-409.28	899.12	6,856.14	6,776.84	79.30	86.454	
4,000.00	3,997.19	18,771.41	10,679.35	11.10	118.82	-118.722	-408.93	899.12	6,757.51	6,678.00	79.51	84.991	
4,100.00	4,097.07	18,771.06	10,679.37	11.41	118.82	-118.740	-408.58	899.13	6,658.91	6,579.19	79.72	83.530	
4,200.00	4,196.96	18,770.71	10,679.38	11.72	118.81	-118.758	-408.23	899.13	6,560.36	6,480.42	79.93	82.072	
4,300.00	4,296.84	18,770.36	10,679.40	12.03	118.81	-118.776	-407.88	899.13	6,461.85	6,381.70	80.15	80.617	
4,400.00	4,396.72	18,770.01	10,679.41	12.35	118.80	-118.794	-407.53	899.13	6,363.39	6,283.01	80.38	79.165	
4,500.00	4,496.61	18,769.66	10,679.43	12.66	118.80	-118.812	-407.18	899.13	6,264.98	6,184.36	80.61	77.716	
4,600.00	4,596.49	18,769.31	10,679.45	12.98	118.79	-118.830	-406.83	899.13	6,166.62	6,085.76	80.85	76.271	
4,700.00	4,696.37	18,768.96	10,679.46	13.29	118.79	-118.848	-406.48	899.13	6,068.31	5,987.21	81.10	74.829	
4,800.00	4,796.26	18,768.61	10,679.48	13.61	118.78	-118.865	-406.13	899.14	5,970.06	5,888.71	81.35	73.390	
4,900.00	4,896.14	18,768.26	10,679.49	13.93	118.78	-118.883	-405.78	899.14	5,871.87	5,790.26	81.60	71.956	
5,000.00	4,996.02	18,767.91	10,679.51	14.25	118.77	-118.901	-405.43	899.14	5,773.73	5,691.87	81.87	70.525	
5,100.00	5,095.91	18,767.56	10,679.53	14.57	118.77	-118.919	-405.08	899.14	5,675.67	5,593.53	82.14	69.098	
5,200.00	5,195.79	18,767.20	10,679.54	14.89	118.77	-118.937	-404.73	899.14	5,577.67	5,495.25	82.42	67.675	
5,300.00	5,295.67	18,766.85	10,679.56	15.21	118.76	-118.955	-404.38	899.14	5,479.75	5,397.04	82.71	66.257	
5,400.00	5,395.56	18,766.50	10,679.57	15.54	118.76	-118.973	-404.03	899.14	5,381.90	5,298.90	83.00	64.842	
5,500.00	5,495.44	18,766.15	10,679.59	15.86	118.75	-118.991	-403.68	899.15	5,284.13	5,200.83	83.30	63.433	
5,600.00	5,595.32	18,765.80	10,679.61	16.19	118.75	-119.009	-403.33	899.15	5,186.45	5,102.84	83.61	62.028	
5,700.00	5,695.21	18,765.45	10,679.62	16.51	118.74	-119.027	-402.98	899.15	5,088.86	5,004.92	83.94	60.628	
5,800.00	5,795.09	18,765.10	10,679.64	16.83	118.74	-119.045	-402.63	899.15	4,991.36	4,907.10	84.27	59.233	
5,900.00	5,894.97	18,764.75	10,679.65	17.16	118.73	-119.063	-402.28	899.15	4,893.97	4,809.36	84.61	57.843	
6,000.00	5,994.86	18,764.40	10,679.67	17.49	118.73	-119.080	-401.93	899.15	4,796.68	4,711.72	84.96	56.458	
6,100.00	6,094.74	18,764.05	10,679.69	17.81	118.72	-119.098	-401.58	899.15	4,699.50	4,614.18	85.32	55.078	
6,200.00	6,194.62	18,763.70	10,679.70	18.14	118.72	-119.116	-401.23	899.16	4,602.45	4,516.75	85.70	53.704	
6,300.00	6,294.51	18,763.35	10,679.72	18.47	118.71	-119.134	-400.88	899.16	4,505.52	4,419.44	86.09	52.336	
6,400.00	6,394.39	18,763.00	10,679.73	18.79	118.71	-119.152	-400.53	899.16	4,408.74	4,322.25	86.49	50.974	
6,500.00	6,494.27	18,762.65	10,679.75	19.12	118.70	-119.170	-400.18	899.16	4,312.10	4,225.19	86.91	49.617	
6,600.00	6,594.16	18,762.30	10,679.76	19.45	118.70	-119.188	-399.83	899.16	4,215.61	4,128.27	87.34	48.267	
6,700.00	6,694.04	18,761.95	10,679.78	19.78	118.69	-119.206	-399.48	899.16	4,119.29	4,031.51	87.79	46.924	
6,800.00	6,793.92	18,761.60	10,679.80	20.11	118.69	-119.224	-399.13	899.17	4,023.16	3,934.90	88.25	45.587	
6,900.00	6,893.81	18,761.25	10,679.81	20.44	118.68	-119.242	-398.78	899.17	3,927.21	3,838.48	88.74	44.257	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 3 - Cattleman Fed Com 123H - OH / 69915 - Surveys (H&P 616)												Offset Site Error:	0.00 usft
Survey Program: 206-MWD+HRGM												Offset Well Error:	1.00 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
7,000.00	6,993.69	18,760.89	10,679.83	20.77	118.68	-119.260	-398.43	899.17	3,831.48	3,742.23	89.24	42.934	
7,100.00	7,093.57	18,760.54	10,679.84	21.10	118.67	-119.278	-398.08	899.17	3,735.96	3,646.19	89.77	41.618	
7,200.00	7,193.46	18,760.19	10,679.86	21.43	118.67	-119.296	-397.73	899.17	3,640.69	3,550.37	90.32	40.310	
7,300.00	7,293.34	18,759.84	10,679.88	21.76	118.66	-119.313	-397.38	899.17	3,545.68	3,454.79	90.89	39.010	
7,400.00	7,393.22	18,759.49	10,679.89	22.09	118.66	-119.331	-397.03	899.17	3,450.95	3,359.45	91.49	37.718	
7,500.00	7,493.11	18,759.14	10,679.91	22.42	118.65	-119.349	-396.68	899.18	3,356.52	3,264.40	92.12	36.435	
7,600.00	7,592.99	18,758.79	10,679.92	22.75	118.65	-119.367	-396.33	899.18	3,262.43	3,169.64	92.79	35.160	
7,700.00	7,692.87	18,758.44	10,679.94	23.08	118.64	-119.385	-395.98	899.18	3,168.70	3,075.21	93.48	33.895	
7,800.00	7,792.76	18,758.09	10,679.96	23.41	118.64	-119.403	-395.63	899.18	3,075.36	2,981.14	94.22	32.640	
7,900.00	7,892.64	18,757.74	10,679.97	23.74	118.63	-119.421	-395.28	899.18	2,982.46	2,887.46	95.00	31.396	
8,000.00	7,992.52	18,757.39	10,679.99	24.07	118.63	-119.439	-394.92	899.18	2,890.03	2,794.21	95.82	30.162	
8,100.00	8,092.41	18,757.04	10,680.00	24.40	118.62	-119.457	-394.57	899.18	2,798.12	2,701.43	96.69	28.940	
8,200.00	8,192.29	18,756.69	10,680.02	24.74	118.62	-119.475	-394.22	899.19	2,706.78	2,609.17	97.61	27.731	
8,300.00	8,292.17	18,756.34	10,680.03	25.07	118.61	-119.493	-393.87	899.19	2,616.08	2,517.49	98.59	26.534	
8,400.00	8,392.06	18,755.99	10,680.05	25.40	118.61	-119.511	-393.52	899.19	2,526.08	2,426.44	99.64	25.352	
8,500.00	8,491.94	18,755.64	10,680.07	25.73	118.60	-119.529	-393.17	899.19	2,436.86	2,336.11	100.76	24.186	
8,600.00	8,591.82	18,755.29	10,680.08	26.07	118.60	-119.547	-392.82	899.19	2,348.51	2,246.56	101.95	23.036	
8,700.00	8,691.71	18,754.94	10,680.10	26.40	118.59	-119.564	-392.47	899.19	2,261.13	2,157.90	103.23	21.905	
8,800.00	8,791.59	18,754.59	10,680.11	26.73	118.59	-119.582	-392.12	899.19	2,174.83	2,070.24	104.59	20.793	
8,900.00	8,891.47	18,754.23	10,680.13	27.06	118.58	-119.600	-391.77	899.20	2,089.76	1,983.70	106.06	19.703	
9,000.00	8,991.36	18,753.88	10,680.15	27.40	118.58	-119.618	-391.42	899.20	2,006.07	1,898.43	107.64	18.637	
9,100.00	9,091.24	18,753.53	10,680.16	27.73	118.57	-119.636	-391.07	899.20	1,923.93	1,814.60	109.33	17.597	
9,200.00	9,191.12	18,753.18	10,680.18	28.06	118.57	-119.654	-390.72	899.20	1,843.56	1,732.42	111.14	16.587	
9,300.00	9,291.01	18,752.83	10,680.19	28.40	118.56	-119.672	-390.37	899.20	1,765.19	1,652.11	113.09	15.609	
9,400.00	9,390.89	18,752.48	10,680.21	28.73	118.56	-119.690	-390.02	899.20	1,689.12	1,573.96	115.16	14.668	
9,500.00	9,490.77	18,752.13	10,680.23	29.06	118.55	-119.708	-389.67	899.20	1,615.65	1,498.29	117.36	13.766	
9,600.00	9,590.66	18,751.78	10,680.24	29.40	118.55	-119.726	-389.32	899.21	1,545.16	1,425.47	119.69	12.910	
9,700.00	9,690.54	18,751.43	10,680.26	29.73	118.54	-119.744	-388.97	899.21	1,478.08	1,355.95	122.13	12.103	
9,800.00	9,790.42	18,751.08	10,680.27	30.06	118.54	-119.762	-388.62	899.21	1,414.89	1,290.24	124.65	11.351	
9,900.00	9,890.31	18,750.73	10,680.29	30.40	118.53	-119.780	-388.27	899.21	1,356.14	1,228.93	127.21	10.660	
10,000.00	9,990.19	18,750.38	10,680.31	30.73	118.53	-119.797	-387.92	899.21	1,302.43	1,172.66	129.77	10.037	
10,100.00	10,090.07	18,750.03	10,680.32	31.07	118.52	-119.815	-387.57	899.21	1,254.40	1,122.16	132.23	9.486	
10,200.00	10,189.96	18,749.68	10,680.34	31.40	118.52	-119.833	-387.22	899.22	1,212.73	1,078.21	134.52	9.015	
10,300.00	10,289.84	18,749.33	10,680.35	31.74	118.51	-119.851	-386.87	899.22	1,178.10	1,041.57	136.53	8.629	
10,400.00	10,389.72	18,748.98	10,680.37	32.07	118.51	-119.869	-386.52	899.22	1,151.14	1,012.99	138.15	8.333	
10,500.00	10,489.60	18,748.63	10,680.38	32.40	118.50	-119.887	-386.17	899.22	1,132.39	993.13	139.27	8.131	
10,600.00	10,589.49	18,748.28	10,680.40	32.74	118.50	-119.905	-385.82	899.22	1,122.28	982.46	139.82	8.027	
10,664.01	10,653.42	18,748.05	10,680.41	32.95	118.49	-119.916	-385.60	899.22	1,120.45	980.60	139.85	8.012 CC, ES, SF	
10,700.00	10,689.37	18,747.92	10,680.42	33.07	118.49	-119.923	-385.47	899.22	1,121.03	981.27	139.76	8.021	
10,800.00	10,789.25	18,747.57	10,680.43	33.41	118.49	-119.941	-385.12	899.22	1,128.68	989.56	139.11	8.113	
10,900.00	10,889.14	18,747.22	10,680.45	33.74	118.48	-119.959	-384.77	899.23	1,145.04	1,007.11	137.92	8.302	
11,000.00	10,989.02	18,746.87	10,680.46	34.08	118.48	-119.977	-384.42	899.23	1,169.75	1,033.46	136.29	8.583	
11,100.00	11,088.90	18,746.52	10,680.48	34.41	118.47	-119.995	-384.07	899.23	1,202.29	1,067.97	134.32	8.951	
11,200.00	11,188.79	18,746.17	10,680.50	34.75	118.47	-120.013	-383.72	899.23	1,242.05	1,109.92	132.13	9.400	
11,300.00	11,288.67	18,745.82	10,680.51	35.08	118.46	-120.030	-383.37	899.23	1,288.37	1,158.52	129.85	9.922	
11,400.00	11,388.55	18,745.47	10,680.53	35.42	118.46	-120.048	-383.02	899.23	1,340.56	1,213.01	127.55	10.510	
11,500.00	11,488.44	18,745.12	10,680.54	35.75	118.45	-120.066	-382.67	899.23	1,397.96	1,272.65	125.31	11.156	
11,600.00	11,588.32	18,744.77	10,680.56	36.09	118.45	-120.084	-382.32	899.24	1,459.96	1,336.78	123.18	11.852	
11,700.00	11,688.20	18,744.42	10,680.58	36.42	118.44	-120.102	-381.97	899.24	1,526.00	1,404.81	121.19	12.591	
11,800.00	11,788.09	18,744.07	10,680.59	36.76	118.44	-120.120	-381.62	899.24	1,595.58	1,476.21	119.37	13.366	
11,900.00	11,887.97	18,743.72	10,680.61	37.09	118.43	-120.138	-381.27	899.24	1,668.25	1,550.53	117.72	14.171	
11,908.72	11,896.68	18,743.69	10,680.61	37.12	118.43	-120.140	-381.24	899.24	1,674.73	1,557.14	117.59	14.242	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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		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)			
12,000.00	11,987.91	18,742.11	10,680.68	37.41	118.41	-121.991	-379.66	899.25	1,743.16	1,626.95	116.21	15.000	
12,047.14	12,035.04	18,740.30	10,680.76	37.47	118.39	87.184	-377.86	899.25	1,778.91	1,663.40	115.51	15.401	
12,100.00	12,087.91	18,737.91	10,680.87	37.47	118.35	87.065	-375.46	899.26	1,819.48	1,704.73	114.75	15.856	
12,200.00	12,187.91	18,733.37	10,681.08	37.48	118.29	86.841	-370.93	899.28	1,897.86	1,784.42	113.44	16.730	
12,300.00	12,287.91	18,728.83	10,681.28	37.48	118.22	86.616	-366.40	899.30	1,978.19	1,865.89	112.30	17.616	
12,400.00	12,387.91	18,724.30	10,681.49	37.49	118.16	86.391	-361.87	899.32	2,060.23	1,948.93	111.30	18.511	
12,500.00	12,487.91	18,719.95	10,681.69	37.50	118.10	86.176	-357.52	899.34	2,143.78	2,033.34	110.44	19.411	
12,547.14	12,535.04	18,717.95	10,681.78	37.49	118.07	86.078	-355.53	899.35	2,183.64	2,073.57	110.07	19.838	
12,550.00	12,537.91	18,717.84	10,681.78	37.50	118.07	-92.893	-355.42	899.35	2,186.07	2,076.02	110.05	19.864	
12,600.00	12,587.83	18,718.01	10,681.77	37.64	118.07	-84.741	-355.59	899.35	2,228.69	2,118.97	109.72	20.312	
12,650.00	12,637.36	18,723.00	10,681.55	37.90	118.14	-76.404	-360.57	899.33	2,271.41	2,161.94	109.46	20.750	
12,700.00	12,686.10	18,731.02	10,681.18	38.17	118.25	-68.391	-368.58	899.29	2,313.87	2,204.60	109.26	21.177	
12,750.00	12,733.70	18,744.11	10,680.59	38.46	118.44	-60.965	-381.66	899.24	2,355.72	2,246.59	109.13	21.586	
12,800.00	12,779.78	18,761.36	10,679.81	38.75	118.68	-54.379	-398.89	899.17	2,396.63	2,287.57	109.06	21.975	
12,850.00	12,824.00	18,782.63	10,678.84	39.03	118.98	-48.704	-420.14	899.08	2,436.24	2,327.19	109.06	22.339	
12,900.00	12,866.02	18,807.76	10,677.70	39.31	119.34	-43.908	-445.24	898.97	2,474.23	2,365.12	109.11	22.676	
12,950.00	12,905.52	18,836.56	10,676.40	39.57	119.74	-39.903	-474.01	898.85	2,510.27	2,401.05	109.22	22.983	
13,000.00	12,942.21	18,868.81	10,674.93	39.82	120.20	-36.586	-506.23	898.72	2,544.06	2,434.66	109.40	23.256	
13,050.00	12,975.79	18,904.26	10,673.32	40.06	120.70	-33.852	-541.65	898.57	2,575.30	2,465.68	109.62	23.493	
13,100.00	13,006.02	18,912.00	10,672.97	40.27	120.81	-31.879	-549.38	898.54	2,603.91	2,494.23	109.68	23.740	
13,150.00	13,032.66	18,912.00	10,672.97	40.46	120.81	-30.292	-549.38	898.54	2,630.09	2,520.38	109.70	23.974	
13,200.00	13,055.52	18,912.00	10,672.97	40.63	120.81	-28.966	-549.38	898.54	2,653.71	2,543.98	109.73	24.184	
13,250.00	13,074.42	18,912.00	10,672.97	40.77	120.81	-27.867	-549.38	898.54	2,674.68	2,564.92	109.75	24.370	
13,300.00	13,089.21	18,912.00	10,672.97	40.89	120.81	-26.966	-549.38	898.54	2,692.88	2,583.11	109.78	24.531	
13,350.00	13,099.79	18,912.00	10,672.97	40.99	120.81	-26.243	-549.38	898.54	2,708.25	2,598.46	109.80	24.666	
13,400.00	13,106.06	18,912.00	10,672.97	41.06	120.81	-25.679	-549.38	898.54	2,720.71	2,610.90	109.81	24.776	
13,447.14	13,108.00	18,912.00	10,672.97	41.11	120.81	-25.283	-549.38	898.54	2,729.75	2,619.94	109.81	24.859	
13,500.00	13,108.00	18,912.00	10,672.97	41.15	120.81	-25.283	-549.38	898.54	2,738.90	2,629.18	109.72	24.962	
13,600.00	13,108.00	18,912.00	10,672.97	41.25	120.81	-25.283	-549.38	898.54	2,758.89	2,649.45	109.44	25.209	
13,700.00	13,108.00	18,912.00	10,672.97	41.37	120.81	-25.283	-549.38	898.54	2,782.32	2,673.24	109.08	25.507	
13,800.00	13,108.00	18,912.00	10,672.97	41.51	120.81	-25.283	-549.38	898.54	2,809.13	2,700.48	108.65	25.855	
13,900.00	13,108.00	18,912.00	10,672.97	41.67	120.81	-25.283	-549.38	898.54	2,839.21	2,731.06	108.15	26.253	
14,000.00	13,108.00	18,912.00	10,672.97	41.87	120.81	-25.283	-549.38	898.54	2,872.45	2,764.86	107.59	26.699	
14,100.00	13,108.00	18,912.00	10,672.97	42.10	120.81	-25.283	-549.38	898.54	2,908.76	2,801.78	106.97	27.192	
14,200.00	13,108.00	18,912.00	10,672.97	42.37	120.81	-25.283	-549.38	898.54	2,948.01	2,841.70	106.31	27.731	
14,300.00	13,108.00	18,912.00	10,672.97	42.69	120.81	-25.283	-549.38	898.54	2,990.09	2,884.49	105.60	28.315	
14,400.00	13,108.00	18,912.00	10,672.97	43.06	120.81	-25.283	-549.38	898.54	3,034.88	2,930.02	104.86	28.942	
14,500.00	13,108.00	18,912.00	10,672.97	43.48	120.81	-25.283	-549.38	898.54	3,082.27	2,978.18	104.09	29.612	
14,600.00	13,108.00	18,912.00	10,672.97	43.97	120.81	-25.283	-549.38	898.54	3,132.14	3,028.84	103.29	30.323	
14,700.00	13,108.00	18,912.00	10,672.97	44.53	120.81	-25.283	-549.38	898.54	3,184.36	3,081.88	102.48	31.073	
14,800.00	13,108.00	18,912.00	10,672.97	45.16	120.81	-25.283	-549.38	898.54	3,238.83	3,137.18	101.66	31.861	
14,900.00	13,108.00	18,912.00	10,672.97	45.87	120.81	-25.283	-549.38	898.54	3,295.44	3,194.62	100.82	32.686	
15,000.00	13,108.00	18,912.00	10,672.97	46.64	120.81	-25.283	-549.38	898.54	3,354.07	3,254.09	99.98	33.546	
15,100.00	13,108.00	18,912.00	10,672.97	47.49	120.81	-25.283	-549.38	898.54	3,414.63	3,315.48	99.15	34.440	
15,200.00	13,108.00	18,912.00	10,672.97	48.39	120.81	-25.283	-549.38	898.54	3,477.01	3,378.69	98.31	35.367	
15,300.00	13,108.00	18,912.00	10,672.97	49.36	120.81	-25.283	-549.38	898.54	3,541.11	3,443.63	97.48	36.325	
15,400.00	13,108.00	18,912.00	10,672.97	50.38	120.81	-25.283	-549.38	898.54	3,606.85	3,510.18	96.67	37.313	
15,500.00	13,108.00	18,912.00	10,672.97	51.44	120.81	-25.283	-549.38	898.54	3,674.13	3,578.27	95.86	38.329	
15,600.00	13,108.00	18,912.00	10,672.97	52.54	120.81	-25.283	-549.38	898.54	3,742.87	3,647.81	95.06	39.373	
15,700.00	13,108.00	18,912.00	10,672.97	53.67	120.81	-25.283	-549.38	898.54	3,813.00	3,718.72	94.28	40.443	
15,800.00	13,108.00	18,912.00	10,672.97	54.84	120.81	-25.283	-549.38	898.54	3,884.44	3,790.92	93.52	41.537	
15,900.00	13,108.00	18,912.00	10,672.97	56.02	120.81	-25.283	-549.38	898.54	3,957.11	3,864.34	92.77	42.655	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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		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	13,108.00	18,912.00	10,672.97	57.24	120.81	-25.283	-549.38	898.54	4,030.96	3,938.92	92.04	43.795		
16,100.00	13,108.00	18,912.00	10,672.97	58.47	120.81	-25.283	-549.38	898.54	4,105.91	4,014.58	91.33	44.957		
16,200.00	13,108.00	18,912.00	10,672.97	59.71	120.81	-25.283	-549.38	898.54	4,181.91	4,091.28	90.64	46.138		
16,300.00	13,108.00	18,912.00	10,672.97	60.97	120.81	-25.283	-549.38	898.54	4,258.91	4,168.94	89.97	47.339		
16,400.00	13,108.00	18,912.00	10,672.97	62.25	120.81	-25.283	-549.38	898.54	4,336.84	4,247.53	89.31	48.557		
16,500.00	13,108.00	18,912.00	10,672.97	63.53	120.81	-25.283	-549.38	898.54	4,415.66	4,326.98	88.68	49.792		
16,600.00	13,108.00	18,912.00	10,672.97	64.83	120.81	-25.283	-549.38	898.54	4,495.32	4,407.26	88.07	51.043		
16,700.00	13,108.00	18,912.00	10,672.97	66.13	120.81	-25.283	-549.38	898.54	4,575.79	4,488.31	87.48	52.310		
16,800.00	13,108.00	18,912.00	10,672.97	67.45	120.81	-25.283	-549.38	898.54	4,657.01	4,570.10	86.90	53.590		
16,900.00	13,108.00	18,912.00	10,672.97	68.77	120.81	-25.283	-549.38	898.54	4,738.94	4,652.60	86.35	54.883		
17,000.00	13,108.00	18,912.00	10,672.97	70.10	120.81	-25.283	-549.38	898.54	4,821.56	4,735.75	85.81	56.188		
17,100.00	13,108.00	18,912.00	10,672.97	71.43	120.81	-25.283	-549.38	898.54	4,904.83	4,819.54	85.29	57.505		
17,200.00	13,108.00	18,912.00	10,672.97	72.77	120.81	-25.283	-549.38	898.54	4,988.71	4,903.92	84.80	58.832		
17,300.00	13,108.00	18,912.00	10,672.97	74.11	120.81	-25.283	-549.38	898.54	5,073.18	4,988.86	84.32	60.169		
17,400.00	13,108.00	18,912.00	10,672.97	75.46	120.81	-25.283	-549.38	898.54	5,158.20	5,074.35	83.85	61.515		
17,500.00	13,108.00	18,912.00	10,672.97	76.81	120.81	-25.283	-549.38	898.54	5,243.75	5,160.34	83.41	62.870		
17,600.00	13,108.00	18,912.00	10,672.97	78.17	120.81	-25.283	-549.38	898.54	5,329.80	5,246.82	82.98	64.232		
17,700.00	13,108.00	18,912.00	10,672.97	79.53	120.81	-25.283	-549.38	898.54	5,416.33	5,333.77	82.57	65.601		
17,800.00	13,108.00	18,912.00	10,672.97	80.89	120.81	-25.283	-549.38	898.54	5,503.32	5,421.15	82.17	66.976		
17,900.00	13,108.00	18,912.00	10,672.97	82.26	120.81	-25.283	-549.38	898.54	5,590.74	5,508.96	81.79	68.357		
18,000.00	13,108.00	18,912.00	10,672.97	83.63	120.81	-25.283	-549.38	898.54	5,678.58	5,597.16	81.42	69.743		
18,100.00	13,108.00	18,912.00	10,672.97	85.00	120.81	-25.283	-549.38	898.54	5,766.82	5,685.75	81.07	71.134		
18,200.00	13,108.00	18,912.00	10,672.97	86.38	120.81	-25.283	-549.38	898.54	5,855.43	5,774.70	80.73	72.529		
18,300.00	13,108.00	18,912.00	10,672.97	87.76	120.81	-25.283	-549.38	898.54	5,944.41	5,864.00	80.41	73.927		
18,400.00	13,108.00	18,912.00	10,672.97	89.14	120.81	-25.283	-549.38	898.54	6,033.73	5,953.63	80.10	75.328		
18,500.00	13,108.00	18,912.00	10,672.97	90.52	120.81	-25.283	-549.38	898.54	6,123.37	6,043.57	79.80	76.732		
18,600.00	13,108.00	18,912.00	10,672.97	91.90	120.81	-25.283	-549.38	898.54	6,213.34	6,133.82	79.52	78.137		
18,700.00	13,108.00	18,912.00	10,672.97	93.29	120.81	-25.283	-549.38	898.54	6,303.61	6,224.36	79.25	79.545		
18,800.00	13,108.00	18,912.00	10,672.97	94.68	120.81	-25.283	-549.38	898.54	6,394.17	6,315.18	78.99	80.953		
18,900.00	13,108.00	18,912.00	10,672.97	96.06	120.81	-25.283	-549.38	898.54	6,485.00	6,406.26	78.74	82.362		
19,000.00	13,108.00	18,912.00	10,672.97	97.46	120.81	-25.283	-549.38	898.54	6,576.10	6,497.60	78.50	83.772		
19,100.00	13,108.00	18,912.00	10,672.97	98.85	120.81	-25.283	-549.38	898.54	6,667.46	6,589.19	78.27	85.181		
19,200.00	13,108.00	18,912.00	10,672.97	100.24	120.81	-25.283	-549.38	898.54	6,759.06	6,681.00	78.06	86.591		
19,300.00	13,108.00	18,912.00	10,672.97	101.64	120.81	-25.283	-549.38	898.54	6,850.90	6,773.05	77.85	87.999		
19,400.00	13,108.00	18,912.00	10,672.97	103.03	120.81	-25.283	-549.38	898.54	6,942.96	6,865.30	77.66	89.407		
19,500.00	13,108.00	18,912.00	10,672.97	104.43	120.81	-25.283	-549.38	898.54	7,035.24	6,957.77	77.47	90.813		
19,600.00	13,108.00	18,912.00	10,672.97	105.83	120.81	-25.283	-549.38	898.54	7,127.72	7,050.43	77.29	92.218		
19,700.00	13,108.00	18,912.00	10,672.97	107.23	120.81	-25.283	-549.38	898.54	7,220.41	7,143.29	77.12	93.621		
19,800.00	13,108.00	18,912.00	10,672.97	108.63	120.81	-25.283	-549.38	898.54	7,313.29	7,236.32	76.96	95.021		
19,900.00	13,108.00	18,912.00	10,672.97	110.03	120.81	-25.283	-549.38	898.54	7,406.35	7,329.54	76.81	96.419		
20,000.00	13,108.00	18,912.00	10,672.97	111.43	120.81	-25.283	-549.38	898.54	7,499.60	7,422.93	76.67	97.815		
20,100.00	13,108.00	18,912.00	10,672.97	112.84	120.81	-25.283	-549.38	898.54	7,593.01	7,516.48	76.54	99.208		
20,200.00	13,108.00	18,912.00	10,672.97	114.24	120.81	-25.283	-549.38	898.54	7,686.59	7,610.18	76.41	100.597		
20,300.00	13,108.00	18,912.00	10,672.97	115.65	120.81	-25.283	-549.38	898.54	7,780.34	7,704.05	76.29	101.984		
20,400.00	13,108.00	18,912.00	10,672.97	117.05	120.81	-25.283	-549.38	898.54	7,874.23	7,798.05	76.18	103.366		
20,500.00	13,108.00	18,912.00	10,672.97	118.46	120.81	-25.283	-549.38	898.54	7,968.27	7,892.20	76.07	104.745		
20,600.00	13,108.00	18,912.00	10,672.97	119.87	120.81	-25.283	-549.38	898.54	8,062.46	7,986.49	75.97	106.121		
20,700.00	13,108.00	18,912.00	10,672.97	121.28	120.81	-25.283	-549.38	898.54	8,156.79	8,080.90	75.88	107.492		
20,800.00	13,108.00	18,912.00	10,672.97	122.68	120.81	-25.283	-549.38	898.54	8,251.24	8,175.45	75.80	108.859		
20,900.00	13,108.00	18,912.00	10,672.97	124.09	120.81	-25.283	-549.38	898.54	8,345.83	8,270.11	75.72	110.221		
21,000.00	13,108.00	18,912.00	10,672.97	125.51	120.81	-25.283	-549.38	898.54	8,440.55	8,364.90	75.65	111.579		
21,100.00	13,108.00	18,912.00	10,672.97	126.92	120.81	-25.283	-549.38	898.54	8,535.38	8,459.80	75.58	112.932		

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 3 - Cattleman Fed Com 123H - OH / 69915 - Surveys (H&P 616)												Offset Site Error:	0.00 usft
Survey Program: 206-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
21,200.00	13,108.00	18,912.00	10,672.97	128.33	120.81	-25.283	-549.38	898.54	8,630.33	8,554.81	75.52	114.281	
21,300.00	13,108.00	18,912.00	10,672.97	129.74	120.81	-25.283	-549.38	898.54	8,725.39	8,649.93	75.46	115.625	
21,400.00	13,108.00	18,912.00	10,672.97	131.15	120.81	-25.283	-549.38	898.54	8,820.56	8,745.15	75.41	116.963	
21,500.00	13,108.00	18,912.00	10,672.97	132.57	120.81	-25.283	-549.38	898.54	8,915.84	8,840.47	75.37	118.297	
21,600.00	13,108.00	18,912.00	10,672.97	133.98	120.81	-25.283	-549.38	898.54	9,011.22	8,935.89	75.33	119.625	
21,700.00	13,108.00	18,912.00	10,672.97	135.39	120.81	-25.283	-549.38	898.54	9,106.70	9,031.41	75.29	120.948	
21,800.00	13,108.00	18,912.00	10,672.97	136.81	120.81	-25.283	-549.38	898.54	9,202.28	9,127.01	75.26	122.265	
21,900.00	13,108.00	18,912.00	10,672.97	138.22	120.81	-25.283	-549.38	898.54	9,297.94	9,222.70	75.24	123.577	
22,000.00	13,108.00	18,912.00	10,672.97	139.64	120.81	-25.283	-549.38	898.54	9,393.70	9,318.48	75.22	124.883	
22,100.00	13,108.00	18,912.00	10,672.97	141.06	120.81	-25.283	-549.38	898.54	9,489.55	9,414.34	75.20	126.184	
22,200.00	13,108.00	18,912.00	10,672.97	142.47	120.81	-25.283	-549.38	898.54	9,585.48	9,510.29	75.19	127.479	
22,300.00	13,108.00	18,912.00	10,672.97	143.89	120.81	-25.283	-549.38	898.54	9,681.49	9,606.31	75.19	128.768	
22,400.00	13,108.00	18,912.00	10,672.97	145.31	120.81	-25.283	-549.38	898.54	9,777.58	9,702.40	75.18	130.051	
22,500.00	13,108.00	18,912.00	10,672.97	146.72	120.81	-25.283	-549.38	898.54	9,873.76	9,798.57	75.18	131.328	
22,600.00	13,108.00	18,912.00	10,672.97	148.14	120.81	-25.283	-549.38	898.54	9,970.00	9,894.81	75.19	132.600	
22,700.00	13,108.00	18,912.00	10,672.97	149.56	120.81	-25.283	-549.38	898.54	10,066.32	9,991.12	75.20	133.865	
22,800.00	13,108.00	18,912.00	10,672.97	150.98	120.81	-25.283	-549.38	898.54	10,162.71	10,087.50	75.21	135.124	
22,900.00	13,108.00	18,912.00	10,672.97	152.40	120.81	-25.283	-549.38	898.54	10,259.17	10,183.94	75.23	136.377	
23,000.00	13,108.00	18,912.00	10,672.97	153.82	120.81	-25.283	-549.38	898.54	10,355.70	10,280.45	75.25	137.624	
23,100.00	13,108.00	18,912.00	10,672.97	155.24	120.81	-25.283	-549.38	898.54	10,452.29	10,377.02	75.27	138.864	
23,200.00	13,108.00	18,912.00	10,672.97	156.66	120.81	-25.283	-549.38	898.54	10,548.94	10,473.65	75.30	140.098	
23,247.14	13,108.00	18,912.00	10,672.97	157.33	120.81	-25.283	-549.38	898.54	10,594.52	10,519.21	75.31	140.678	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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		Rule Assigned:		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	
0.00	0.00	49.32	-0.68	1.00	1.04	8.652	7,690.61	1,170.28	7,779.14				
100.00	100.00	147.97	97.97	1.08	1.33	8.656	7,690.55	1,170.74	7,779.15	7,776.74	2.41	3,226.457	
200.00	200.00	246.80	196.79	1.60	1.87	8.661	7,690.47	1,171.52	7,779.19	7,775.75	3.44	2,259.412	
300.00	300.00	346.04	296.03	2.01	2.47	8.667	7,690.41	1,172.23	7,779.24	7,774.81	4.42	1,758.609	
400.00	400.00	445.63	395.62	2.35	3.03	8.672	7,690.35	1,172.95	7,779.29	7,773.99	5.30	1,468.805	
500.00	500.00	540.00	489.99	2.65	3.31	8.677	7,690.32	1,173.62	7,779.37	7,773.53	5.84	1,331.399	
600.00	600.00	630.80	580.79	2.93	3.54	8.681	7,690.40	1,174.16	7,779.54	7,773.25	6.30	1,235.120	
700.00	700.00	730.03	680.01	3.18	3.76	8.684	7,690.58	1,174.60	7,779.79	7,773.05	6.74	1,153.859	
800.00	800.00	821.94	771.92	3.41	3.95	8.685	7,690.84	1,174.81	7,780.10	7,772.95	7.15	1,088.323	
900.00	900.00	911.21	861.19	3.64	4.11	8.685	7,691.22	1,174.88	7,780.54	7,773.00	7.54	1,031.969	
1,000.00	1,000.00	1,017.73	967.71	3.85	4.29	8.685	7,691.72	1,174.88	7,781.00	7,773.05	7.95	978.686	
1,100.00	1,100.00	1,125.58	1,075.56	4.05	4.45	8.683	7,692.13	1,174.75	7,781.36	7,773.02	8.34	933.518	
1,200.00	1,200.00	1,215.46	1,165.44	4.24	4.54	8.680	7,692.50	1,174.41	7,781.71	7,773.05	8.66	899.065	
1,300.00	1,300.00	1,354.41	1,304.39	4.43	4.68	8.673	7,692.97	1,173.50	7,781.96	7,772.92	9.04	860.833	
1,400.00	1,400.00	1,464.00	1,413.97	4.61	4.78	8.671	7,692.83	1,173.18	7,781.78	7,772.44	9.34	832.816	
1,500.00	1,500.00	1,555.78	1,505.75	4.78	4.87	8.670	7,692.74	1,173.07	7,781.67	7,772.04	9.62	808.784	
1,502.23	1,502.23	1,557.90	1,507.88	4.79	4.88	158.480	7,692.74	1,173.07	7,781.67	7,772.04	9.63	808.259	
1,600.00	1,599.98	1,664.27	1,614.25	4.99	4.99	158.472	7,692.69	1,172.80	7,783.21	7,773.28	9.93	783.838	
1,638.42	1,638.36	1,713.59	1,663.56	5.04	5.04	158.466	7,692.59	1,172.64	7,784.60	7,774.57	10.04	775.667	
1,700.00	1,699.87	1,769.66	1,719.63	5.10	5.09	158.473	7,692.45	1,172.51	7,787.20	7,777.04	10.15	766.972	
1,800.00	1,799.76	1,882.31	1,832.29	5.26	5.21	158.487	7,692.12	1,172.45	7,791.40	7,780.97	10.42	747.380	
1,900.00	1,899.64	1,978.12	1,928.09	5.44	5.32	158.501	7,691.71	1,172.51	7,795.48	7,784.77	10.71	727.990	
2,000.00	1,999.52	2,069.02	2,018.99	5.64	5.44	158.515	7,691.38	1,172.85	7,799.67	7,788.66	11.00	708.771	
2,100.00	2,099.41	2,151.29	2,101.26	5.84	5.56	158.531	7,691.15	1,173.53	7,804.02	7,792.71	11.31	690.313	
2,200.00	2,199.29	2,233.66	2,183.62	6.07	5.69	158.550	7,691.06	1,174.59	7,808.61	7,796.99	11.62	672.127	
2,300.00	2,299.17	2,316.42	2,266.37	6.30	5.82	158.570	7,691.11	1,175.94	7,813.41	7,801.47	11.94	654.381	
2,400.00	2,399.06	2,394.86	2,344.80	6.54	5.96	158.593	7,691.27	1,177.65	7,818.45	7,806.18	12.26	637.468	
2,500.00	2,498.94	2,462.00	2,411.90	6.79	6.08	158.615	7,691.57	1,179.51	7,823.82	7,811.24	12.58	621.793	
2,600.00	2,598.82	2,495.97	2,445.86	7.04	6.18	158.627	7,691.90	1,180.69	7,829.83	7,816.95	12.88	607.680	
2,700.00	2,698.71	2,557.00	2,506.80	7.31	6.36	158.654	7,693.17	1,183.55	7,836.89	7,823.64	13.25	591.635	
2,800.00	2,798.59	2,557.00	2,506.80	7.58	6.36	158.654	7,693.17	1,183.55	7,844.47	7,830.97	13.49	581.375	
2,900.00	2,898.47	2,630.32	2,579.96	7.85	6.58	158.692	7,695.36	1,187.76	7,852.81	7,838.92	13.89	565.277	
3,000.00	2,998.36	2,696.06	2,645.55	8.13	6.74	158.727	7,697.54	1,191.89	7,861.57	7,847.32	14.26	551.421	
3,100.00	3,098.24	2,763.69	2,712.97	8.41	6.90	158.766	7,700.05	1,196.38	7,870.77	7,856.15	14.62	538.391	
3,200.00	3,198.12	2,840.00	2,789.03	8.70	7.08	158.811	7,703.07	1,201.79	7,880.30	7,865.30	15.00	525.227	
3,300.00	3,298.01	2,905.45	2,854.23	8.99	7.24	158.852	7,705.85	1,206.74	7,890.20	7,874.82	15.38	513.087	
3,400.00	3,397.89	19,092.46	11,048.53	9.28	119.65	-120.943	-372.58	1,499.56	7,810.50	7,734.43	76.07	102.680	
3,500.00	3,497.77	19,092.64	11,048.52	9.58	119.65	-120.937	-372.76	1,499.55	7,713.02	7,636.79	76.23	101.181	
3,600.00	3,597.66	19,092.82	11,048.51	9.88	119.65	-120.931	-372.94	1,499.55	7,615.60	7,539.20	76.40	99.684	
3,700.00	3,697.54	19,093.01	11,048.50	10.18	119.66	-120.925	-373.13	1,499.55	7,518.24	7,441.67	76.57	98.188	
3,800.00	3,797.42	19,093.19	11,048.50	10.49	119.66	-120.918	-373.32	1,499.55	7,420.96	7,344.21	76.75	96.694	
3,900.00	3,897.31	19,093.39	11,048.49	10.79	119.66	-120.912	-373.51	1,499.55	7,323.75	7,246.82	76.93	95.202	
4,000.00	3,997.19	19,093.58	11,048.48	11.10	119.66	-120.905	-373.70	1,499.55	7,226.62	7,149.50	77.12	93.712	
4,100.00	4,097.07	19,093.78	11,048.48	11.41	119.67	-120.899	-373.90	1,499.55	7,129.57	7,052.26	77.31	92.224	
4,200.00	4,196.96	19,093.98	11,048.47	11.72	119.67	-120.892	-374.10	1,499.55	7,032.60	6,955.09	77.50	90.738	
4,300.00	4,296.84	19,094.19	11,048.46	12.03	119.67	-120.885	-374.31	1,499.55	6,935.71	6,858.00	77.71	89.254	
4,400.00	4,396.72	19,094.40	11,048.45	12.35	119.68	-120.879	-374.52	1,499.54	6,838.92	6,761.00	77.92	87.773	
4,500.00	4,496.61	19,094.61	11,048.45	12.66	119.68	-120.871	-374.73	1,499.54	6,742.21	6,664.08	78.13	86.294	
4,600.00	4,596.49	19,094.82	11,048.44	12.98	119.68	-120.864	-374.95	1,499.54	6,645.61	6,567.26	78.35	84.818	
4,700.00	4,696.37	19,095.05	11,048.43	13.29	119.68	-120.857	-375.17	1,499.54	6,549.11	6,470.53	78.58	83.345	
4,800.00	4,796.26	19,095.27	11,048.42	13.61	119.69	-120.850	-375.39	1,499.54	6,452.71	6,373.90	78.81	81.875	
4,900.00	4,896.14	19,095.50	11,048.41	13.93	119.69	-120.842	-375.62	1,499.54	6,356.43	6,277.38	79.05	80.408	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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
				(usft)	(usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,996.02	19,095.73	11,048.40	14.25	119.69	-120.834	-375.85	1,499.54	6,260.26	6,180.96	79.30	78.944	
5,100.00	5,095.91	19,095.97	11,048.40	14.57	119.70	-120.826	-376.09	1,499.53	6,164.22	6,084.66	79.56	77.483	
5,200.00	5,195.79	19,096.21	11,048.39	14.89	119.70	-120.818	-376.33	1,499.53	6,068.30	5,988.48	79.82	76.026	
5,300.00	5,295.67	19,096.45	11,048.38	15.21	119.70	-120.810	-376.57	1,499.53	5,972.51	5,892.42	80.09	74.573	
5,400.00	5,395.56	19,096.70	11,048.37	15.54	119.71	-120.802	-376.82	1,499.53	5,876.87	5,796.50	80.37	73.123	
5,500.00	5,495.44	19,096.96	11,048.36	15.86	119.71	-120.794	-377.08	1,499.53	5,781.37	5,700.72	80.66	71.678	
5,600.00	5,595.32	19,097.22	11,048.35	16.19	119.71	-120.785	-377.34	1,499.53	5,686.03	5,605.08	80.96	70.236	
5,700.00	5,695.21	19,097.48	11,048.34	16.51	119.72	-120.776	-377.60	1,499.53	5,590.85	5,509.59	81.26	68.799	
5,800.00	5,795.09	19,097.75	11,048.33	16.83	119.72	-120.767	-377.87	1,499.52	5,495.85	5,414.26	81.58	67.365	
5,900.00	5,894.97	19,098.03	11,048.32	17.16	119.73	-120.758	-378.15	1,499.52	5,401.02	5,319.11	81.91	65.937	
6,000.00	5,994.86	19,098.31	11,048.31	17.49	119.73	-120.749	-378.43	1,499.52	5,306.38	5,224.13	82.25	64.513	
6,100.00	6,094.74	19,098.60	11,048.30	17.81	119.73	-120.739	-378.72	1,499.52	5,211.95	5,129.34	82.61	63.094	
6,200.00	6,194.62	19,098.89	11,048.29	18.14	119.74	-120.730	-379.01	1,499.52	5,117.72	5,034.75	82.97	61.679	
6,300.00	6,294.51	19,099.19	11,048.28	18.47	119.74	-120.720	-379.31	1,499.52	5,023.72	4,940.36	83.35	60.270	
6,400.00	6,394.39	19,099.50	11,048.27	18.79	119.75	-120.710	-379.62	1,499.51	4,929.95	4,846.20	83.75	58.866	
6,500.00	6,494.27	19,099.81	11,048.26	19.12	119.75	-120.699	-379.93	1,499.51	4,836.43	4,752.28	84.16	57.468	
6,600.00	6,594.16	19,100.13	11,048.24	19.45	119.76	-120.689	-380.25	1,499.51	4,743.18	4,658.60	84.59	56.076	
6,700.00	6,694.04	19,100.45	11,048.23	19.78	119.76	-120.678	-380.57	1,499.51	4,650.21	4,565.18	85.03	54.689	
6,800.00	6,793.92	19,100.79	11,048.22	20.11	119.76	-120.667	-380.90	1,499.51	4,557.54	4,472.04	85.49	53.309	
6,900.00	6,893.81	19,101.13	11,048.21	20.44	119.77	-120.656	-381.24	1,499.50	4,465.18	4,379.20	85.98	51.935	
7,000.00	6,993.69	19,101.47	11,048.20	20.77	119.77	-120.644	-381.59	1,499.50	4,373.15	4,286.67	86.48	50.568	
7,100.00	7,093.57	19,101.83	11,048.18	21.10	119.78	-120.632	-381.95	1,499.50	4,281.49	4,194.48	87.01	49.208	
7,200.00	7,193.46	19,102.19	11,048.17	21.43	119.78	-120.620	-382.31	1,499.50	4,190.21	4,102.65	87.56	47.856	
7,300.00	7,293.34	19,102.56	11,048.16	21.76	119.79	-120.608	-382.68	1,499.49	4,099.33	4,011.19	88.14	46.511	
7,400.00	7,393.22	19,102.95	11,048.14	22.09	119.79	-120.595	-383.06	1,499.49	4,008.89	3,920.15	88.74	45.174	
7,500.00	7,493.11	19,103.33	11,048.13	22.42	119.80	-120.582	-383.45	1,499.49	3,918.91	3,829.53	89.38	43.846	
7,600.00	7,592.99	19,103.73	11,048.12	22.75	119.81	-120.569	-383.85	1,499.49	3,829.43	3,739.38	90.05	42.527	
7,700.00	7,692.87	19,104.14	11,048.10	23.08	119.81	-120.556	-384.26	1,499.48	3,740.48	3,649.73	90.75	41.218	
7,800.00	7,792.76	19,104.56	11,048.09	23.41	119.82	-120.542	-384.68	1,499.48	3,652.11	3,560.62	91.49	39.919	
7,900.00	7,892.64	19,104.99	11,048.07	23.74	119.82	-120.528	-385.11	1,499.48	3,564.34	3,472.08	92.27	38.631	
8,000.00	7,992.52	19,105.43	11,048.06	24.07	119.83	-120.513	-385.55	1,499.48	3,477.24	3,384.15	93.09	37.354	
8,100.00	8,092.41	19,105.88	11,048.04	24.40	119.84	-120.498	-386.00	1,499.47	3,390.85	3,296.90	93.96	36.090	
8,200.00	8,192.29	19,106.35	11,048.02	24.74	119.84	-120.483	-386.46	1,499.47	3,305.23	3,210.36	94.87	34.838	
8,300.00	8,292.17	19,106.82	11,048.01	25.07	119.85	-120.467	-386.94	1,499.47	3,220.44	3,124.60	95.84	33.601	
8,400.00	8,392.06	19,107.31	11,047.99	25.40	119.86	-120.451	-387.43	1,499.46	3,136.54	3,039.68	96.87	32.380	
8,500.00	8,491.94	19,107.81	11,047.97	25.73	119.86	-120.434	-387.93	1,499.46	3,053.62	2,955.66	97.95	31.175	
8,600.00	8,591.82	19,108.33	11,047.96	26.07	119.87	-120.417	-388.44	1,499.46	2,971.74	2,872.64	99.10	29.987	
8,700.00	8,691.71	19,108.86	11,047.94	26.40	119.88	-120.399	-388.97	1,499.45	2,891.00	2,790.69	100.32	28.819	
8,800.00	8,791.59	19,109.40	11,047.92	26.73	119.88	-120.381	-389.51	1,499.45	2,811.51	2,709.90	101.60	27.671	
8,900.00	8,891.47	19,109.96	11,047.90	27.06	119.89	-120.363	-390.07	1,499.45	2,733.36	2,630.39	102.97	26.546	
9,000.00	8,991.36	19,110.54	11,047.88	27.40	119.90	-120.344	-390.65	1,499.44	2,656.67	2,552.26	104.41	25.445	
9,100.00	9,091.24	19,111.13	11,047.86	27.73	119.91	-120.324	-391.24	1,499.44	2,581.58	2,475.65	105.93	24.371	
9,200.00	9,191.12	19,111.74	11,047.84	28.06	119.92	-120.304	-391.85	1,499.44	2,508.23	2,400.69	107.54	23.324	
9,300.00	9,291.01	19,112.37	11,047.82	28.40	119.93	-120.283	-392.48	1,499.43	2,436.78	2,327.55	109.23	22.309	
9,400.00	9,390.89	19,113.02	11,047.80	28.73	119.93	-120.262	-393.13	1,499.43	2,367.39	2,256.38	111.01	21.326	
9,500.00	9,490.77	19,113.69	11,047.77	29.06	119.94	-120.240	-393.80	1,499.42	2,300.26	2,187.39	112.87	20.379	
9,600.00	9,590.66	19,114.38	11,047.75	29.40	119.95	-120.217	-394.49	1,499.42	2,235.59	2,120.77	114.82	19.471	
9,700.00	9,690.54	19,115.09	11,047.73	29.73	119.96	-120.193	-395.20	1,499.42	2,173.60	2,056.76	116.84	18.604	
9,800.00	9,790.42	19,115.82	11,047.70	30.06	119.97	-120.169	-395.93	1,499.41	2,114.52	1,995.59	118.92	17.780	
9,900.00	9,890.31	19,116.58	11,047.68	30.40	119.98	-120.144	-396.69	1,499.41	2,058.60	1,937.53	121.07	17.004	
10,000.00	9,990.19	19,117.37	11,047.65	30.73	120.00	-120.118	-397.48	1,499.40	2,006.11	1,882.86	123.25	16.276	
10,100.00	10,090.07	19,118.18	11,047.63	31.07	120.01	-120.091	-398.29	1,499.39	1,957.33	1,831.87	125.46	15.602	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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			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	
10,200.00	10,189.96	19,119.02	11,047.60	31.40	120.02	-120.063	-399.13	1,499.39	1,912.53	1,784.87	127.66	14.982	
10,300.00	10,289.84	19,119.89	11,047.57	31.74	120.03	-120.034	-400.00	1,499.38	1,872.01	1,742.18	129.83	14.419	
10,400.00	10,389.72	19,120.79	11,047.54	32.07	120.04	-120.004	-400.90	1,499.38	1,836.05	1,704.11	131.94	13.916	
10,500.00	10,489.60	19,121.73	11,047.51	32.40	120.06	-119.973	-401.83	1,499.37	1,804.92	1,670.96	133.96	13.474	
10,600.00	10,589.49	19,122.70	11,047.48	32.74	120.07	-119.941	-402.80	1,499.37	1,778.87	1,643.02	135.84	13.095	
10,700.00	10,689.37	19,123.71	11,047.45	33.07	120.08	-119.908	-403.81	1,499.36	1,758.12	1,620.56	137.57	12.780	
10,800.00	10,789.25	19,124.75	11,047.42	33.41	120.10	-119.873	-404.86	1,499.35	1,742.88	1,603.79	139.10	12.530	
10,900.00	10,889.14	19,125.84	11,047.38	33.74	120.11	-119.837	-405.95	1,499.34	1,733.28	1,592.88	140.41	12.345	
11,000.00	10,989.02	19,126.97	11,047.35	34.08	120.13	-119.799	-407.08	1,499.34	1,729.42	1,587.95	141.48	12.224	
11,016.84	11,005.84	19,127.17	11,047.34	34.13	120.13	-119.793	-407.27	1,499.34	1,729.34	1,587.71	141.63	12.210 CC, ES	
11,100.00	11,088.90	19,128.15	11,047.31	34.41	120.15	-119.760	-408.26	1,499.33	1,731.34	1,589.05	142.29	12.167 SF	
11,200.00	11,188.79	19,129.39	11,047.28	34.75	120.16	-119.719	-409.49	1,499.32	1,739.01	1,596.16	142.86	12.173	
11,300.00	11,288.67	19,130.67	11,047.24	35.08	120.18	-119.677	-410.77	1,499.31	1,752.37	1,609.20	143.17	12.240	
11,400.00	11,388.55	19,132.01	11,047.20	35.42	120.20	-119.632	-412.11	1,499.30	1,771.27	1,628.04	143.24	12.366	
11,500.00	11,488.44	19,133.41	11,047.16	35.75	120.22	-119.586	-413.51	1,499.29	1,795.56	1,652.47	143.09	12.548	
11,600.00	11,588.32	19,134.88	11,047.11	36.09	120.24	-119.538	-414.98	1,499.28	1,825.01	1,682.25	142.75	12.784	
11,700.00	11,688.20	19,136.41	11,047.07	36.42	120.26	-119.487	-416.51	1,499.27	1,859.37	1,717.12	142.25	13.071	
11,800.00	11,788.09	19,138.02	11,047.02	36.76	120.28	-119.433	-418.12	1,499.26	1,898.38	1,756.78	141.60	13.406	
11,900.00	11,887.97	19,139.71	11,046.98	37.09	120.31	-119.377	-419.81	1,499.25	1,941.77	1,800.91	140.86	13.785	
11,908.72	11,896.68	19,139.86	11,046.97	37.12	120.31	-119.372	-419.96	1,499.25	1,945.75	1,804.96	140.79	13.821	
12,000.00	11,987.91	19,139.86	11,046.97	37.41	120.31	-120.215	-419.96	1,499.25	1,988.61	1,848.62	139.99	14.205	
12,047.14	12,035.04	19,138.58	11,047.01	37.47	120.29	89.482	-418.68	1,499.26	2,011.51	1,872.01	139.51	14.419	
12,100.00	12,087.91	19,136.60	11,047.06	37.47	120.26	89.417	-416.70	1,499.27	2,038.00	1,899.08	138.92	14.670	
12,200.00	12,187.91	19,132.71	11,047.18	37.48	120.21	89.290	-412.81	1,499.30	2,090.84	1,953.03	137.80	15.172	
12,300.00	12,287.91	19,128.60	11,047.30	37.48	120.15	89.156	-408.70	1,499.33	2,147.03	2,010.34	136.69	15.707	
12,400.00	12,387.91	19,124.26	11,047.43	37.49	120.09	89.014	-404.36	1,499.35	2,206.32	2,070.73	135.59	16.272	
12,500.00	12,487.91	19,119.66	11,047.58	37.50	120.03	88.864	-399.77	1,499.39	2,268.46	2,133.95	134.51	16.865	
12,547.14	12,535.04	19,117.40	11,047.65	37.49	120.00	88.790	-397.51	1,499.40	2,298.68	2,164.67	134.01	17.153	
12,550.00	12,537.91	19,117.27	11,047.66	37.50	119.99	-90.396	-397.38	1,499.40	2,300.53	2,166.55	133.98	17.171	
12,600.00	12,587.83	19,118.49	11,047.62	37.64	120.01	-86.043	-398.60	1,499.39	2,333.20	2,199.70	133.50	17.477	
12,650.00	12,637.36	19,126.46	11,047.37	37.90	120.12	-81.411	-406.56	1,499.34	2,366.25	2,233.15	133.10	17.779	
12,700.00	12,686.10	19,141.41	11,046.93	38.17	120.33	-76.612	-421.50	1,499.24	2,399.36	2,266.60	132.76	18.073	
12,750.00	12,733.70	19,163.54	11,046.36	38.46	120.64	-71.776	-443.63	1,499.08	2,432.21	2,299.70	132.51	18.355	
12,800.00	12,779.78	19,192.99	11,045.76	38.75	121.05	-67.043	-473.07	1,498.85	2,464.44	2,332.11	132.33	18.623	
12,850.00	12,824.00	19,211.63	11,045.38	39.03	121.31	-62.950	-491.71	1,498.70	2,495.78	2,363.60	132.18	18.882	
12,900.00	12,866.02	19,237.86	11,044.87	39.31	121.67	-59.077	-517.94	1,498.50	2,525.95	2,393.83	132.11	19.119	
12,950.00	12,905.52	19,250.00	11,044.63	39.57	121.84	-55.879	-530.07	1,498.40	2,554.70	2,422.64	132.06	19.345	
13,000.00	12,942.21	19,250.00	11,044.63	39.82	121.84	-53.215	-530.07	1,498.40	2,582.06	2,450.06	132.00	19.560	
13,050.00	12,975.79	19,250.00	11,044.63	40.06	121.84	-50.834	-530.07	1,498.40	2,607.91	2,475.93	131.98	19.759	
13,100.00	13,006.02	19,250.00	11,044.63	40.27	121.84	-48.725	-530.07	1,498.40	2,632.09	2,500.10	131.99	19.941	
13,150.00	13,032.66	19,250.00	11,044.63	40.46	121.84	-46.870	-530.07	1,498.40	2,654.47	2,522.45	132.03	20.106	
13,200.00	13,055.52	19,250.00	11,044.63	40.63	121.84	-45.256	-530.07	1,498.40	2,674.93	2,542.85	132.08	20.252	
13,250.00	13,074.42	19,250.00	11,044.63	40.77	121.84	-43.865	-530.07	1,498.40	2,693.35	2,561.19	132.16	20.379	
13,300.00	13,089.21	19,250.00	11,044.63	40.89	121.84	-42.684	-530.07	1,498.40	2,709.64	2,577.38	132.25	20.488	
13,350.00	13,099.79	19,250.00	11,044.63	40.99	121.84	-41.699	-530.07	1,498.40	2,723.71	2,591.35	132.36	20.578	
13,400.00	13,106.06	19,250.00	11,044.63	41.06	121.84	-40.899	-530.07	1,498.40	2,735.49	2,603.01	132.48	20.648	
13,447.14	13,108.00	19,250.00	11,044.63	41.11	121.84	-40.305	-530.07	1,498.40	2,744.44	2,611.85	132.60	20.697	
13,500.00	13,108.00	19,250.00	11,044.63	41.15	121.84	-40.305	-530.07	1,498.40	2,753.80	2,621.13	132.67	20.757	
13,600.00	13,108.00	19,250.00	11,044.63	41.25	121.84	-40.305	-530.07	1,498.40	2,774.15	2,641.48	132.67	20.910	
13,700.00	13,108.00	19,250.00	11,044.63	41.37	121.84	-40.305	-530.07	1,498.40	2,797.94	2,665.37	132.57	21.106	
13,800.00	13,108.00	19,250.00	11,044.63	41.51	121.84	-40.305	-530.07	1,498.40	2,825.07	2,692.71	132.36	21.344	
13,900.00	13,108.00	19,250.00	11,044.63	41.67	121.84	-40.305	-530.07	1,498.40	2,855.44	2,723.40	132.04	21.625	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 3 - Cattleman Fed Com 213H - OH / 69914 - Surveys (H&P 616)													Offset Site Error:	0.00 usft	
Survey Program:		177-MWD+HRGM		Offset		Semi 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		
14,000.00	13,108.00	19,250.00	11,044.63	41.87	121.84	-40.305	-530.07	1,498.40	2,888.96	2,757.32	131.64	21.946			
14,100.00	13,108.00	19,250.00	11,044.63	42.10	121.84	-40.305	-530.07	1,498.40	2,925.51	2,794.37	131.15	22.307			
14,200.00	13,108.00	19,250.00	11,044.63	42.37	121.84	-40.305	-530.07	1,498.40	2,964.99	2,834.42	130.57	22.707			
14,300.00	13,108.00	19,250.00	11,044.63	42.69	121.84	-40.305	-530.07	1,498.40	3,007.28	2,877.35	129.93	23.145			
14,400.00	13,108.00	19,250.00	11,044.63	43.06	121.84	-40.305	-530.07	1,498.40	3,052.25	2,923.03	129.22	23.620			
14,500.00	13,108.00	19,250.00	11,044.63	43.48	121.84	-40.305	-530.07	1,498.40	3,099.80	2,971.35	128.46	24.131			
14,600.00	13,108.00	19,250.00	11,044.63	43.97	121.84	-40.305	-530.07	1,498.40	3,149.81	3,022.17	127.64	24.677			
14,700.00	13,108.00	19,250.00	11,044.63	44.53	121.84	-40.305	-530.07	1,498.40	3,202.16	3,075.38	126.79	25.256			
14,800.00	13,108.00	19,250.00	11,044.63	45.16	121.84	-40.305	-530.07	1,498.40	3,256.75	3,130.85	125.90	25.868			
14,900.00	13,108.00	19,250.00	11,044.63	45.87	121.84	-40.305	-530.07	1,498.40	3,313.45	3,188.46	124.98	26.511			
15,000.00	13,108.00	19,250.00	11,044.63	46.64	121.84	-40.305	-530.07	1,498.40	3,372.16	3,248.12	124.05	27.185			
15,100.00	13,108.00	19,250.00	11,044.63	47.49	121.84	-40.305	-530.07	1,498.40	3,432.79	3,309.69	123.09	27.888			
15,200.00	13,108.00	19,250.00	11,044.63	48.39	121.84	-40.305	-530.07	1,498.40	3,495.22	3,373.09	122.13	28.619			
15,300.00	13,108.00	19,250.00	11,044.63	49.36	121.84	-40.305	-530.07	1,498.40	3,559.37	3,438.21	121.16	29.378			
15,400.00	13,108.00	19,250.00	11,044.63	50.38	121.84	-40.305	-530.07	1,498.40	3,625.14	3,504.96	120.18	30.163			
15,500.00	13,108.00	19,250.00	11,044.63	51.44	121.84	-40.305	-530.07	1,498.40	3,692.45	3,573.24	119.21	30.974			
15,600.00	13,108.00	19,250.00	11,044.63	52.54	121.84	-40.305	-530.07	1,498.40	3,761.21	3,642.97	118.24	31.809			
15,700.00	13,108.00	19,250.00	11,044.63	53.67	121.84	-40.305	-530.07	1,498.40	3,831.35	3,714.07	117.28	32.668			
15,800.00	13,108.00	19,250.00	11,044.63	54.84	121.84	-40.305	-530.07	1,498.40	3,902.79	3,786.46	116.33	33.549			
15,900.00	13,108.00	19,250.00	11,044.63	56.02	121.84	-40.305	-530.07	1,498.40	3,975.47	3,860.07	115.39	34.451			
16,000.00	13,108.00	19,250.00	11,044.63	57.24	121.84	-40.305	-530.07	1,498.40	4,049.30	3,934.84	114.47	35.375			
16,100.00	13,108.00	19,250.00	11,044.63	58.47	121.84	-40.305	-530.07	1,498.40	4,124.25	4,010.69	113.56	36.319			
16,200.00	13,108.00	19,250.00	11,044.63	59.71	121.84	-40.305	-530.07	1,498.40	4,200.23	4,087.57	112.66	37.281			
16,300.00	13,108.00	19,250.00	11,044.63	60.97	121.84	-40.305	-530.07	1,498.40	4,277.21	4,165.42	111.79	38.262			
16,400.00	13,108.00	19,250.00	11,044.63	62.25	121.84	-40.305	-530.07	1,498.40	4,355.12	4,244.19	110.93	39.261			
16,500.00	13,108.00	19,250.00	11,044.63	63.53	121.84	-40.305	-530.07	1,498.40	4,433.91	4,323.82	110.09	40.277			
16,600.00	13,108.00	19,250.00	11,044.63	64.83	121.84	-40.305	-530.07	1,498.40	4,513.55	4,404.28	109.27	41.308			
16,700.00	13,108.00	19,250.00	11,044.63	66.13	121.84	-40.305	-530.07	1,498.40	4,593.98	4,485.52	108.46	42.355			
16,800.00	13,108.00	19,250.00	11,044.63	67.45	121.84	-40.305	-530.07	1,498.40	4,675.17	4,567.49	107.68	43.417			
16,900.00	13,108.00	19,250.00	11,044.63	68.77	121.84	-40.305	-530.07	1,498.40	4,757.07	4,650.15	106.92	44.492			
17,000.00	13,108.00	19,250.00	11,044.63	70.10	121.84	-40.305	-530.07	1,498.40	4,839.66	4,733.48	106.18	45.581			
17,100.00	13,108.00	19,250.00	11,044.63	71.43	121.84	-40.305	-530.07	1,498.40	4,922.89	4,817.43	105.45	46.683			
17,200.00	13,108.00	19,250.00	11,044.63	72.77	121.84	-40.305	-530.07	1,498.40	5,006.73	4,901.98	104.75	47.797			
17,300.00	13,108.00	19,250.00	11,044.63	74.11	121.84	-40.305	-530.07	1,498.40	5,091.16	4,987.09	104.07	48.922			
17,400.00	13,108.00	19,250.00	11,044.63	75.46	121.84	-40.305	-530.07	1,498.40	5,176.14	5,072.74	103.40	50.058			
17,500.00	13,108.00	19,250.00	11,044.63	76.81	121.84	-40.305	-530.07	1,498.40	5,261.65	5,158.89	102.76	51.205			
17,600.00	13,108.00	19,250.00	11,044.63	78.17	121.84	-40.305	-530.07	1,498.40	5,347.66	5,245.53	102.13	52.361			
17,700.00	13,108.00	19,250.00	11,044.63	79.53	121.84	-40.305	-530.07	1,498.40	5,434.15	5,332.63	101.52	53.527			
17,800.00	13,108.00	19,250.00	11,044.63	80.89	121.84	-40.305	-530.07	1,498.40	5,521.10	5,420.17	100.93	54.702			
17,900.00	13,108.00	19,250.00	11,044.63	82.26	121.84	-40.305	-530.07	1,498.40	5,608.49	5,508.13	100.36	55.885			
18,000.00	13,108.00	19,250.00	11,044.63	83.63	121.84	-40.305	-530.07	1,498.40	5,696.28	5,596.48	99.80	57.076			
18,100.00	13,108.00	19,250.00	11,044.63	85.00	121.84	-40.305	-530.07	1,498.40	5,784.48	5,685.22	99.26	58.274			
18,200.00	13,108.00	19,250.00	11,044.63	86.38	121.84	-40.305	-530.07	1,498.40	5,873.05	5,774.31	98.74	59.479			
18,300.00	13,108.00	19,250.00	11,044.63	87.76	121.84	-40.305	-530.07	1,498.40	5,961.99	5,863.75	98.23	60.691			
18,400.00	13,108.00	19,250.00	11,044.63	89.14	121.84	-40.305	-530.07	1,498.40	6,051.27	5,953.52	97.74	61.909			
18,500.00	13,108.00	19,250.00	11,044.63	90.52	121.84	-40.305	-530.07	1,498.40	6,140.88	6,043.61	97.27	63.133			
18,600.00	13,108.00	19,250.00	11,044.63	91.90	121.84	-40.305	-530.07	1,498.40	6,230.80	6,133.99	96.81	64.361			
18,700.00	13,108.00	19,250.00	11,044.63	93.29	121.84	-40.305	-530.07	1,498.40	6,321.03	6,224.67	96.36	65.595			
18,800.00	13,108.00	19,250.00	11,044.63	94.68	121.84	-40.305	-530.07	1,498.40	6,411.55	6,315.62	95.93	66.834			
18,900.00	13,108.00	19,250.00	11,044.63	96.06	121.84	-40.305	-530.07	1,498.40	6,502.35	6,406.83	95.52	68.076			
19,000.00	13,108.00	19,250.00	11,044.63	97.46	121.84	-40.305	-530.07	1,498.40	6,593.41	6,498.30	95.11	69.323			
19,100.00	13,108.00	19,250.00	11,044.63	98.85	121.84	-40.305	-530.07	1,498.40	6,684.73	6,590.01	94.72	70.573			

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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					Rule Assigned:						Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
19,200.00	13,108.00	19,250.00	11,044.63	100.24	121.84	-40.305	-530.07	1,498.40	6,776.29	6,681.95	94.34	71.826		
19,300.00	13,108.00	19,250.00	11,044.63	101.64	121.84	-40.305	-530.07	1,498.40	6,868.09	6,774.11	93.98	73.082		
19,400.00	13,108.00	19,250.00	11,044.63	103.03	121.84	-40.305	-530.07	1,498.40	6,960.12	6,866.49	93.63	74.340		
19,500.00	13,108.00	19,250.00	11,044.63	104.43	121.84	-40.305	-530.07	1,498.40	7,052.36	6,959.07	93.28	75.601		
19,600.00	13,108.00	19,250.00	11,044.63	105.83	121.84	-40.305	-530.07	1,498.40	7,144.81	7,051.85	92.95	76.864		
19,700.00	13,108.00	19,250.00	11,044.63	107.23	121.84	-40.305	-530.07	1,498.40	7,237.46	7,144.82	92.64	78.129		
19,800.00	13,108.00	19,250.00	11,044.63	108.63	121.84	-40.305	-530.07	1,498.40	7,330.30	7,237.98	92.33	79.395		
19,900.00	13,108.00	19,250.00	11,044.63	110.03	121.84	-40.305	-530.07	1,498.40	7,423.33	7,331.30	92.03	80.662		
20,000.00	13,108.00	19,250.00	11,044.63	111.43	121.84	-40.305	-530.07	1,498.40	7,516.54	7,424.80	91.74	81.930		
20,100.00	13,108.00	19,250.00	11,044.63	112.84	121.84	-40.305	-530.07	1,498.40	7,609.93	7,518.46	91.47	83.199		
20,200.00	13,108.00	19,250.00	11,044.63	114.24	121.84	-40.305	-530.07	1,498.40	7,703.47	7,612.28	91.20	84.469		
20,300.00	13,108.00	19,250.00	11,044.63	115.65	121.84	-40.305	-530.07	1,498.40	7,797.18	7,706.24	90.94	85.739		
20,400.00	13,108.00	19,250.00	11,044.63	117.05	121.84	-40.305	-530.07	1,498.40	7,891.05	7,800.35	90.69	87.008		
20,500.00	13,108.00	19,250.00	11,044.63	118.46	121.84	-40.305	-530.07	1,498.40	7,985.06	7,894.60	90.45	88.278		
20,600.00	13,108.00	19,250.00	11,044.63	119.87	121.84	-40.305	-530.07	1,498.40	8,079.21	7,988.99	90.22	89.547		
20,700.00	13,108.00	19,250.00	11,044.63	121.28	121.84	-40.305	-530.07	1,498.40	8,173.51	8,083.51	90.00	90.816		
20,800.00	13,108.00	19,250.00	11,044.63	122.68	121.84	-40.305	-530.07	1,498.40	8,267.94	8,178.15	89.79	92.084		
20,900.00	13,108.00	19,250.00	11,044.63	124.09	121.84	-40.305	-530.07	1,498.40	8,362.49	8,272.91	89.58	93.351		
21,000.00	13,108.00	19,250.00	11,044.63	125.51	121.84	-40.305	-530.07	1,498.40	8,457.18	8,367.79	89.38	94.617		
21,100.00	13,108.00	19,250.00	11,044.63	126.92	121.84	-40.305	-530.07	1,498.40	8,551.98	8,462.79	89.19	95.881		
21,200.00	13,108.00	19,250.00	11,044.63	128.33	121.84	-40.305	-530.07	1,498.40	8,646.90	8,557.89	89.01	97.144		
21,300.00	13,108.00	19,250.00	11,044.63	129.74	121.84	-40.305	-530.07	1,498.40	8,741.94	8,653.10	88.84	98.406		
21,400.00	13,108.00	19,250.00	11,044.63	131.15	121.84	-40.305	-530.07	1,498.40	8,837.08	8,748.41	88.67	99.666		
21,500.00	13,108.00	19,250.00	11,044.63	132.57	121.84	-40.305	-530.07	1,498.40	8,932.33	8,843.82	88.51	100.924		
21,600.00	13,108.00	19,250.00	11,044.63	133.98	121.84	-40.305	-530.07	1,498.40	9,027.68	8,939.33	88.35	102.179		
21,700.00	13,108.00	19,250.00	11,044.63	135.39	121.84	-40.305	-530.07	1,498.40	9,123.14	9,034.93	88.20	103.433		
21,800.00	13,108.00	19,250.00	11,044.63	136.81	121.84	-40.305	-530.07	1,498.40	9,218.68	9,130.62	88.06	104.684		
21,900.00	13,108.00	19,250.00	11,044.63	138.22	121.84	-40.305	-530.07	1,498.40	9,314.33	9,226.40	87.93	105.933		
22,000.00	13,108.00	19,250.00	11,044.63	139.64	121.84	-40.305	-530.07	1,498.40	9,410.06	9,322.26	87.80	107.179		
22,100.00	13,108.00	19,250.00	11,044.63	141.06	121.84	-40.305	-530.07	1,498.40	9,505.88	9,418.21	87.67	108.423		
22,200.00	13,108.00	19,250.00	11,044.63	142.47	121.84	-40.305	-530.07	1,498.40	9,601.79	9,514.23	87.56	109.664		
22,300.00	13,108.00	19,250.00	11,044.63	143.89	121.84	-40.305	-530.07	1,498.40	9,697.78	9,610.33	87.44	110.902		
22,400.00	13,108.00	19,250.00	11,044.63	145.31	121.84	-40.305	-530.07	1,498.40	9,793.84	9,706.51	87.34	112.136		
22,500.00	13,108.00	19,250.00	11,044.63	146.72	121.84	-40.305	-530.07	1,498.40	9,889.99	9,802.75	87.24	113.368		
22,600.00	13,108.00	19,250.00	11,044.63	148.14	121.84	-40.305	-530.07	1,498.40	9,986.21	9,899.07	87.14	114.596		
22,700.00	13,108.00	19,250.00	11,044.63	149.56	121.84	-40.305	-530.07	1,498.40	10,082.51	9,995.46	87.05	115.822		
22,800.00	13,108.00	19,250.00	11,044.63	150.98	121.84	-40.305	-530.07	1,498.40	10,178.88	10,091.91	86.97	117.043		
22,900.00	13,108.00	19,250.00	11,044.63	152.40	121.84	-40.305	-530.07	1,498.40	10,275.31	10,188.43	86.89	118.261		
23,000.00	13,108.00	19,250.00	11,044.63	153.82	121.84	-40.305	-530.07	1,498.40	10,371.82	10,285.01	86.81	119.476		
23,100.00	13,108.00	19,250.00	11,044.63	155.24	121.84	-40.305	-530.07	1,498.40	10,468.39	10,381.65	86.74	120.687		
23,200.00	13,108.00	19,250.00	11,044.63	156.66	121.84	-40.305	-530.07	1,498.40	10,565.02	10,478.35	86.67	121.894		
23,247.14	13,108.00	19,250.00	11,044.63	157.33	121.84	-40.305	-530.07	1,498.40	10,610.59	10,523.95	86.64	122.462		

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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	64.03	22.03	1.00	1.07	15.318	7,826.72	2,143.85	8,115.05				
100.00	100.00	199.43	157.43	1.08	1.63	15.319	7,825.97	2,143.76	8,114.49	8,111.78	2.71	2,994.098	
200.00	200.00	289.23	247.22	1.60	2.41	15.320	7,825.39	2,143.69	8,113.84	8,109.83	4.01	2,024.729	
300.00	300.00	380.59	338.58	2.01	3.12	15.320	7,824.92	2,143.64	8,113.32	8,108.20	5.12	1,583.205	
400.00	400.00	448.00	405.99	2.35	3.30	15.323	7,824.52	2,143.91	8,112.92	8,107.28	5.65	1,437.069	
456.23	456.23	498.24	456.23	2.52	3.39	15.325	7,824.32	2,144.22	8,112.81	8,106.90	5.90	1,374.471	
500.00	500.00	538.00	495.99	2.65	3.46	15.327	7,824.33	2,144.42	8,112.88	8,106.78	6.10	1,329.686	
600.00	600.00	655.78	613.77	2.93	3.74	15.332	7,824.14	2,145.11	8,112.88	8,106.25	6.63	1,223.642	
682.45	682.45	724.46	682.45	3.13	4.02	15.335	7,823.97	2,145.52	8,112.81	8,105.71	7.10	1,141.994	
700.00	700.00	739.08	697.07	3.18	4.08	15.336	7,823.95	2,145.60	8,112.82	8,105.61	7.21	1,125.947	
800.00	800.00	809.00	766.99	3.41	4.37	15.338	7,823.94	2,145.96	8,112.97	8,105.26	7.71	1,051.861	
900.00	900.00	900.00	857.98	3.64	4.55	15.342	7,824.20	2,146.56	8,113.43	8,105.34	8.09	1,002.947	
1,000.00	1,000.00	983.81	941.79	3.85	4.68	15.345	7,824.64	2,147.21	8,114.12	8,105.72	8.41	965.234	
1,100.00	1,100.00	1,087.99	1,045.97	4.05	4.97	15.349	7,825.18	2,147.99	8,114.82	8,105.94	8.87	914.525	
1,200.00	1,200.00	1,223.24	1,181.21	4.24	5.32	15.356	7,825.61	2,149.10	8,115.37	8,106.00	9.37	866.237	
1,300.00	1,300.00	1,361.50	1,319.47	4.43	5.80	15.365	7,825.25	2,150.24	8,115.32	8,105.35	9.97	814.117	
1,400.00	1,400.00	1,481.25	1,439.20	4.61	6.28	15.376	7,824.38	2,151.61	8,114.92	8,104.36	10.56	768.202	
1,500.00	1,500.00	1,581.76	1,539.70	4.78	6.71	15.385	7,823.55	2,152.81	8,114.43	8,103.32	11.12	729.866	
1,514.52	1,514.52	1,596.35	1,554.29	4.81	6.77	165.196	7,823.42	2,152.98	8,114.40	8,103.20	11.20	724.651	
1,600.00	1,599.98	1,636.00	1,593.94	4.99	6.94	165.194	7,823.10	2,153.44	8,115.76	8,104.25	11.51	704.929	
1,638.42	1,638.36	1,682.87	1,640.80	5.04	7.09	165.194	7,822.82	2,153.97	8,117.18	8,105.49	11.69	694.492	
1,700.00	1,699.87	1,717.01	1,674.95	5.10	7.19	165.200	7,822.76	2,154.36	8,120.14	8,108.30	11.84	685.939	
1,800.00	1,799.76	1,772.44	1,730.37	5.26	7.36	165.208	7,822.93	2,154.98	8,125.39	8,113.25	12.14	669.508	
1,900.00	1,899.64	1,825.00	1,782.92	5.44	7.52	165.216	7,823.37	2,155.56	8,131.19	8,118.73	12.45	652.908	
2,000.00	1,999.52	1,906.83	1,864.74	5.64	7.80	165.228	7,824.39	2,156.54	8,137.38	8,124.47	12.91	630.415	
2,100.00	2,099.41	1,984.63	1,942.52	5.84	8.07	165.240	7,825.53	2,157.63	8,143.84	8,130.48	13.36	609.605	
2,200.00	2,199.29	2,073.61	2,031.48	6.07	8.37	165.255	7,827.00	2,159.08	8,150.52	8,136.67	13.85	588.350	
2,300.00	2,299.17	2,169.38	2,127.22	6.30	8.70	165.273	7,828.52	2,161.04	8,157.27	8,142.90	14.37	567.600	
2,400.00	2,399.06	2,247.80	2,205.61	6.54	8.97	165.291	7,829.78	2,162.95	8,164.14	8,149.30	14.84	550.091	
2,500.00	2,498.94	2,316.81	2,274.58	6.79	9.21	165.307	7,831.08	2,164.86	8,171.37	8,156.09	15.28	534.664	
2,600.00	2,598.82	2,392.00	2,349.71	7.04	9.48	165.326	7,832.74	2,167.17	8,178.97	8,163.21	15.77	518.742	
2,700.00	2,698.71	18,363.71	10,542.28	7.31	118.35	-124.028	-212.32	2,187.75	8,152.06	8,076.14	75.91	107.388	
2,800.00	2,798.59	18,365.21	10,542.25	7.58	118.37	-123.993	-213.82	2,187.74	8,056.58	7,980.43	76.15	105.794	
2,900.00	2,898.47	18,366.71	10,542.22	7.85	118.39	-123.957	-215.31	2,187.74	7,961.22	7,884.82	76.40	104.203	
3,000.00	2,998.36	18,368.21	10,542.19	8.13	118.41	-123.922	-216.82	2,187.73	7,865.97	7,789.31	76.66	102.613	
3,100.00	3,098.24	18,369.73	10,542.16	8.41	118.44	-123.886	-218.34	2,187.72	7,770.84	7,693.92	76.92	101.026	
3,200.00	3,198.12	18,371.26	10,542.13	8.70	118.46	-123.849	-219.86	2,187.71	7,675.83	7,598.64	77.19	99.441	
3,300.00	3,298.01	18,372.79	10,542.10	8.99	118.48	-123.813	-221.40	2,187.71	7,580.96	7,503.49	77.47	97.860	
3,400.00	3,397.89	18,389.00	10,541.79	9.28	118.71	-123.429	-237.61	2,187.64	7,486.23	7,408.37	77.87	96.143	
3,500.00	3,497.77	18,389.00	10,541.79	9.58	118.71	-123.429	-237.61	2,187.64	7,391.62	7,313.47	78.15	94.585	
3,600.00	3,597.66	18,389.00	10,541.79	9.88	118.71	-123.429	-237.61	2,187.64	7,297.15	7,218.71	78.44	93.029	
3,700.00	3,697.54	18,389.00	10,541.79	10.18	118.71	-123.429	-237.61	2,187.64	7,202.83	7,124.09	78.74	91.476	
3,800.00	3,797.42	18,389.00	10,541.79	10.49	118.71	-123.429	-237.61	2,187.64	7,108.67	7,029.62	79.05	89.928	
3,900.00	3,897.31	18,389.00	10,541.79	10.79	118.71	-123.429	-237.61	2,187.64	7,014.67	6,935.30	79.37	88.382	
4,000.00	3,997.19	18,389.00	10,541.79	11.10	118.71	-123.429	-237.61	2,187.64	6,920.84	6,841.14	79.70	86.841	
4,100.00	4,097.07	18,389.00	10,541.79	11.41	118.71	-123.429	-237.61	2,187.64	6,827.18	6,747.14	80.03	85.304	
4,200.00	4,196.96	18,389.00	10,541.79	11.72	118.71	-123.429	-237.61	2,187.64	6,733.70	6,653.32	80.38	83.771	
4,300.00	4,296.84	18,389.00	10,541.79	12.03	118.71	-123.429	-237.61	2,187.64	6,640.42	6,559.67	80.74	82.243	
4,400.00	4,396.72	18,389.00	10,541.79	12.35	118.71	-123.429	-237.61	2,187.64	6,547.33	6,466.22	81.11	80.720	
4,500.00	4,496.61	18,389.00	10,541.79	12.66	118.71	-123.429	-237.61	2,187.64	6,454.45	6,372.95	81.49	79.202	
4,600.00	4,596.49	18,389.00	10,541.79	12.98	118.71	-123.429	-237.61	2,187.64	6,361.78	6,279.89	81.89	77.690	
4,700.00	4,696.37	18,389.00	10,541.79	13.29	118.71	-123.429	-237.61	2,187.64	6,269.34	6,187.05	82.29	76.183	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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		
4,800.00	4,796.26	18,389.00	10,541.79	13.61	118.71	-123.429	-237.61	2,187.64	6,177.14	6,094.42	82.71	74.682			
4,900.00	4,896.14	18,389.00	10,541.79	13.93	118.71	-123.429	-237.61	2,187.64	6,085.18	6,002.03	83.15	73.187			
5,000.00	4,996.02	18,389.00	10,541.79	14.25	118.71	-123.429	-237.61	2,187.64	5,993.48	5,909.89	83.59	71.699			
5,100.00	5,095.91	18,389.00	10,541.79	14.57	118.71	-123.429	-237.61	2,187.64	5,902.05	5,818.00	84.05	70.218			
5,200.00	5,195.79	18,389.00	10,541.79	14.89	118.71	-123.429	-237.61	2,187.64	5,810.90	5,726.37	84.53	68.743			
5,300.00	5,295.67	18,389.00	10,541.79	15.21	118.71	-123.429	-237.61	2,187.64	5,720.05	5,635.02	85.02	67.277			
5,400.00	5,395.56	18,389.00	10,541.79	15.54	118.71	-123.429	-237.61	2,187.64	5,629.51	5,543.97	85.53	65.818			
5,500.00	5,495.44	18,389.00	10,541.79	15.86	118.71	-123.429	-237.61	2,187.64	5,539.29	5,453.23	86.06	64.367			
5,600.00	5,595.32	18,389.00	10,541.79	16.19	118.71	-123.429	-237.61	2,187.64	5,449.41	5,362.81	86.60	62.924			
5,700.00	5,695.21	18,389.00	10,541.79	16.51	118.71	-123.429	-237.61	2,187.64	5,359.90	5,272.73	87.17	61.491			
5,800.00	5,795.09	18,389.00	10,541.79	16.83	118.71	-123.429	-237.61	2,187.64	5,270.76	5,183.01	87.75	60.067			
5,900.00	5,894.97	18,389.00	10,541.79	17.16	118.71	-123.429	-237.61	2,187.64	5,182.01	5,093.66	88.35	58.652			
6,000.00	5,994.86	18,389.00	10,541.79	17.49	118.71	-123.429	-237.61	2,187.64	5,093.69	5,004.71	88.98	57.247			
6,100.00	6,094.74	18,389.00	10,541.79	17.81	118.71	-123.429	-237.61	2,187.64	5,005.80	4,916.17	89.62	55.853			
6,200.00	6,194.62	18,389.00	10,541.79	18.14	118.71	-123.429	-237.61	2,187.64	4,918.37	4,828.08	90.29	54.470			
6,300.00	6,294.51	18,389.00	10,541.79	18.47	118.71	-123.429	-237.61	2,187.64	4,831.44	4,740.45	90.99	53.099			
6,400.00	6,394.39	18,389.00	10,541.79	18.79	118.71	-123.429	-237.61	2,187.64	4,745.01	4,653.30	91.71	51.740			
6,500.00	6,494.27	18,389.00	10,541.79	19.12	118.71	-123.429	-237.61	2,187.64	4,659.14	4,566.68	92.46	50.393			
6,600.00	6,594.16	18,389.00	10,541.79	19.45	118.71	-123.429	-237.61	2,187.64	4,573.83	4,480.60	93.23	49.059			
6,700.00	6,694.04	18,389.00	10,541.79	19.78	118.71	-123.429	-237.61	2,187.64	4,489.13	4,395.10	94.03	47.740			
6,800.00	6,793.92	18,389.00	10,541.79	20.11	118.71	-123.429	-237.61	2,187.64	4,405.08	4,310.21	94.87	46.435			
6,900.00	6,893.81	18,389.00	10,541.79	20.44	118.71	-123.429	-237.61	2,187.64	4,321.70	4,225.97	95.73	45.144			
7,000.00	6,993.69	18,389.00	10,541.79	20.77	118.71	-123.429	-237.61	2,187.64	4,239.04	4,142.41	96.63	43.870			
7,100.00	7,093.57	18,389.00	10,541.79	21.10	118.71	-123.429	-237.61	2,187.64	4,157.14	4,059.59	97.56	42.613			
7,200.00	7,193.46	18,389.00	10,541.79	21.43	118.71	-123.429	-237.61	2,187.64	4,076.06	3,977.53	98.52	41.372			
7,300.00	7,293.34	18,389.00	10,541.79	21.76	118.71	-123.429	-237.61	2,187.64	3,995.82	3,896.30	99.52	40.150			
7,400.00	7,393.22	18,389.00	10,541.79	22.09	118.71	-123.429	-237.61	2,187.64	3,916.50	3,815.94	100.56	38.947			
7,500.00	7,493.11	18,389.00	10,541.79	22.42	118.71	-123.429	-237.61	2,187.64	3,838.15	3,736.51	101.63	37.764			
7,600.00	7,592.99	18,419.01	10,541.48	22.75	119.13	-122.716	-267.61	2,187.54	3,760.51	3,657.52	102.99	36.512			
7,700.00	7,692.87	18,420.57	10,541.47	23.08	119.15	-122.679	-269.17	2,187.54	3,684.24	3,580.08	104.16	35.371			
7,800.00	7,792.76	18,422.20	10,541.47	23.41	119.17	-122.640	-270.80	2,187.53	3,609.13	3,503.76	105.37	34.253			
7,900.00	7,892.64	18,423.90	10,541.47	23.74	119.20	-122.600	-272.51	2,187.53	3,535.25	3,428.64	106.62	33.159			
8,000.00	7,992.52	18,425.68	10,541.47	24.07	119.22	-122.557	-274.29	2,187.52	3,462.68	3,354.77	107.91	32.090			
8,100.00	8,092.41	18,427.54	10,541.47	24.40	119.25	-122.513	-276.15	2,187.52	3,391.50	3,282.26	109.24	31.047			
8,200.00	8,192.29	18,429.49	10,541.48	24.74	119.27	-122.467	-278.09	2,187.51	3,321.81	3,211.20	110.61	30.032			
8,300.00	8,292.17	18,431.53	10,541.48	25.07	119.30	-122.418	-280.13	2,187.50	3,253.69	3,141.67	112.02	29.046			
8,400.00	8,392.06	18,433.67	10,541.49	25.40	119.33	-122.368	-282.27	2,187.50	3,187.25	3,073.78	113.47	28.089			
8,500.00	8,491.94	18,435.92	10,541.50	25.73	119.36	-122.314	-284.52	2,187.49	3,122.60	3,007.65	114.95	27.164			
8,600.00	8,591.82	18,438.28	10,541.52	26.07	119.40	-122.258	-286.89	2,187.48	3,059.85	2,943.38	116.47	26.272			
8,700.00	8,691.71	18,440.77	10,541.54	26.40	119.43	-122.199	-289.37	2,187.47	2,999.11	2,881.10	118.02	25.413			
8,800.00	8,791.59	18,443.40	10,541.56	26.73	119.47	-122.136	-292.00	2,187.47	2,940.52	2,820.94	119.59	24.589			
8,900.00	8,891.47	18,446.17	10,541.59	27.06	119.51	-122.071	-294.77	2,187.46	2,884.20	2,763.03	121.18	23.801			
9,000.00	8,991.36	18,449.10	10,541.63	27.40	119.55	-122.001	-297.70	2,187.45	2,830.29	2,707.51	122.78	23.051			
9,100.00	9,091.24	18,452.21	10,541.67	27.73	119.59	-121.927	-300.81	2,187.44	2,778.93	2,654.54	124.39	22.340			
9,200.00	9,191.12	18,455.50	10,541.72	28.06	119.64	-121.849	-304.10	2,187.43	2,730.26	2,604.26	126.00	21.669			
9,300.00	9,291.01	18,459.00	10,541.78	28.40	119.69	-121.766	-307.60	2,187.42	2,684.43	2,556.84	127.59	21.039			
9,400.00	9,390.89	18,462.73	10,541.85	28.73	119.74	-121.677	-311.33	2,187.40	2,641.58	2,512.42	129.16	20.452			
9,500.00	9,490.77	18,466.71	10,541.94	29.06	119.80	-121.582	-315.31	2,187.39	2,601.86	2,471.16	130.70	19.908			
9,600.00	9,590.66	18,484.00	10,542.40	29.40	120.04	-121.172	-332.59	2,187.34	2,565.46	2,433.18	132.28	19.394			
9,700.00	9,690.54	18,484.00	10,542.40	29.73	120.04	-121.172	-332.59	2,187.34	2,532.40	2,398.72	133.68	18.944			
9,800.00	9,790.42	18,484.00	10,542.40	30.06	120.04	-121.172	-332.59	2,187.34	2,502.90	2,367.90	135.00	18.540			
9,900.00	9,890.31	18,486.43	10,542.48	30.40	120.07	-121.114	-335.02	2,187.33	2,477.09	2,340.84	136.25	18.180			

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 4 - Cattleman Fed Com 114H - OH / 69918 - Surveys (H&P 656)												Offset Site Error:	0.00 usft
Survey Program: 175-MWD+HRGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
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)			
10,000.00	9,990.19	18,494.00	10,542.71	30.73	120.18	-120.934	-342.59	2,187.31	2,455.07	2,317.62	137.45	17.862	
10,100.00	10,090.07	18,501.49	10,542.94	31.07	120.28	-120.756	-350.08	2,187.28	2,436.93	2,298.40	138.53	17.592	
10,200.00	10,189.96	18,508.90	10,543.16	31.40	120.39	-120.580	-357.48	2,187.26	2,422.77	2,283.28	139.49	17.369	
10,300.00	10,289.84	18,516.24	10,543.38	31.74	120.49	-120.406	-364.81	2,187.23	2,412.64	2,272.32	140.32	17.194	
10,400.00	10,389.72	18,523.49	10,543.59	32.07	120.59	-120.233	-372.07	2,187.21	2,406.62	2,265.60	141.02	17.066	
10,495.99	10,485.60	18,530.39	10,543.79	32.39	120.69	-120.069	-378.96	2,187.19	2,404.71	2,263.16	141.55	16.988	CC
10,500.00	10,489.60	18,530.67	10,543.80	32.40	120.69	-120.063	-379.24	2,187.19	2,404.71	2,263.14	141.57	16.986	ES
10,600.00	10,589.49	18,537.78	10,544.00	32.74	120.79	-119.894	-386.35	2,187.16	2,406.95	2,264.96	141.99	16.952	SF
10,700.00	10,689.37	18,544.81	10,544.20	33.07	120.89	-119.727	-393.38	2,187.14	2,413.30	2,271.04	142.27	16.963	
10,800.00	10,789.25	18,551.77	10,544.40	33.41	120.99	-119.561	-400.33	2,187.12	2,423.76	2,281.35	142.41	17.020	
10,900.00	10,889.14	18,558.66	10,544.59	33.74	121.09	-119.397	-407.22	2,187.09	2,438.25	2,295.83	142.42	17.120	
11,000.00	10,989.02	18,565.47	10,544.77	34.08	121.18	-119.235	-414.03	2,187.07	2,456.71	2,314.40	142.31	17.263	
11,100.00	11,088.90	18,572.22	10,544.95	34.41	121.28	-119.075	-420.78	2,187.04	2,479.05	2,336.96	142.09	17.448	
11,200.00	11,188.79	18,578.92	10,545.13	34.75	121.37	-118.916	-427.48	2,187.02	2,505.16	2,363.40	141.76	17.672	
11,300.00	11,288.67	18,585.74	10,545.31	35.08	121.47	-118.754	-434.29	2,187.00	2,534.94	2,393.60	141.35	17.934	
11,400.00	11,388.55	18,592.55	10,545.49	35.42	121.56	-118.592	-441.10	2,186.97	2,568.25	2,427.40	140.85	18.234	
11,500.00	11,488.44	18,599.37	10,545.67	35.75	121.66	-118.430	-447.91	2,186.95	2,604.96	2,464.67	140.29	18.568	
11,600.00	11,588.32	18,606.18	10,545.85	36.09	121.76	-118.268	-454.72	2,186.93	2,644.92	2,505.24	139.68	18.935	
11,700.00	11,688.20	18,612.99	10,546.03	36.42	121.85	-118.107	-461.53	2,186.90	2,688.00	2,548.97	139.03	19.334	
11,800.00	11,788.09	18,619.81	10,546.21	36.76	121.95	-117.945	-468.35	2,186.88	2,734.03	2,595.69	138.34	19.763	
11,900.00	11,887.97	18,626.62	10,546.39	37.09	122.04	-117.783	-475.16	2,186.85	2,782.89	2,645.25	137.64	20.219	
11,908.72	11,896.68	18,627.21	10,546.40	37.12	122.05	-117.769	-475.75	2,186.85	2,787.28	2,649.70	137.58	20.260	
12,000.00	11,987.91	18,632.18	10,546.53	37.41	122.12	-118.606	-480.71	2,186.84	2,833.83	2,696.94	136.89	20.701	
12,047.14	12,035.04	18,633.76	10,546.58	37.47	122.14	91.122	-482.29	2,186.83	2,858.26	2,721.77	136.48	20.943	
12,100.00	12,087.91	18,635.15	10,546.61	37.47	122.16	91.154	-483.68	2,186.83	2,886.14	2,750.15	135.99	21.223	
12,200.00	12,187.91	18,637.78	10,546.68	37.48	122.20	91.216	-486.32	2,186.82	2,940.76	2,805.66	135.09	21.769	
12,300.00	12,287.91	18,640.42	10,546.75	37.48	122.24	91.278	-488.95	2,186.81	2,997.71	2,863.50	134.21	22.335	
12,400.00	12,387.91	18,643.05	10,546.82	37.49	122.27	91.340	-491.58	2,186.80	3,056.88	2,923.52	133.36	22.922	
12,500.00	12,487.91	18,645.69	10,546.89	37.50	122.31	91.402	-494.22	2,186.79	3,118.13	2,985.59	132.54	23.526	
12,547.14	12,535.04	18,646.93	10,546.92	37.49	122.33	91.431	-495.46	2,186.78	3,147.68	3,015.53	132.16	23.818	
12,550.00	12,537.91	18,647.01	10,546.93	37.50	122.33	-87.758	-495.54	2,186.78	3,149.49	3,017.36	132.14	23.835	
12,600.00	12,587.83	18,650.76	10,547.02	37.64	122.38	-83.579	-499.29	2,186.77	3,181.22	3,049.44	131.78	24.140	
12,650.00	12,637.36	18,658.83	10,547.24	37.90	122.50	-79.320	-507.36	2,186.74	3,213.03	3,081.54	131.49	24.435	
12,700.00	12,686.10	18,671.17	10,547.56	38.17	122.67	-75.074	-519.69	2,186.70	3,244.65	3,113.37	131.27	24.717	
12,750.00	12,733.70	18,687.69	10,548.00	38.46	122.90	-70.932	-536.20	2,186.64	3,275.79	3,144.67	131.12	24.983	
12,800.00	12,779.78	18,705.00	10,548.45	38.75	123.15	-67.034	-553.51	2,186.58	3,306.18	3,175.17	131.01	25.236	
12,850.00	12,824.00	18,705.00	10,548.45	39.03	123.15	-63.719	-553.51	2,186.58	3,335.65	3,204.84	130.80	25.501	
12,900.00	12,866.02	18,705.00	10,548.45	39.31	123.15	-60.668	-553.51	2,186.58	3,364.04	3,233.41	130.63	25.752	
12,950.00	12,905.52	18,705.00	10,548.45	39.57	123.15	-57.892	-553.51	2,186.58	3,391.17	3,260.68	130.49	25.988	
13,000.00	12,942.21	18,705.00	10,548.45	39.82	123.15	-55.390	-553.51	2,186.58	3,416.86	3,286.48	130.37	26.208	
13,050.00	12,975.79	18,705.00	10,548.45	40.06	123.15	-53.158	-553.51	2,186.58	3,440.95	3,310.66	130.29	26.410	
13,100.00	13,006.02	18,705.00	10,548.45	40.27	123.15	-51.184	-553.51	2,186.58	3,463.30	3,333.07	130.23	26.594	
13,150.00	13,032.66	18,705.00	10,548.45	40.46	123.15	-49.457	-553.51	2,186.58	3,483.77	3,353.57	130.20	26.758	
13,200.00	13,055.52	18,705.00	10,548.45	40.63	123.15	-47.964	-553.51	2,186.58	3,502.23	3,372.05	130.19	26.902	
13,250.00	13,074.42	18,705.00	10,548.45	40.77	123.15	-46.691	-553.51	2,186.58	3,518.59	3,388.39	130.20	27.025	
13,300.00	13,089.21	18,705.00	10,548.45	40.89	123.15	-45.627	-553.51	2,186.58	3,532.74	3,402.51	130.23	27.126	
13,350.00	13,099.79	18,705.00	10,548.45	40.99	123.15	-44.760	-553.51	2,186.58	3,544.61	3,414.32	130.29	27.206	
13,400.00	13,106.06	18,705.00	10,548.45	41.06	123.15	-44.081	-553.51	2,186.58	3,554.12	3,423.76	130.36	27.263	
13,447.14	13,108.00	18,705.00	10,548.45	41.11	123.15	-43.608	-553.51	2,186.58	3,560.89	3,430.44	130.44	27.298	
13,500.00	13,108.00	18,705.00	10,548.45	41.15	123.15	-43.608	-553.51	2,186.58	3,567.65	3,437.16	130.49	27.340	
13,600.00	13,108.00	18,705.00	10,548.45	41.25	123.15	-43.608	-553.51	2,186.58	3,582.54	3,452.04	130.50	27.452	
13,700.00	13,108.00	18,705.00	10,548.45	41.37	123.15	-43.608	-553.51	2,186.58	3,600.15	3,469.68	130.46	27.595	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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	13,108.00	18,705.00	10,548.45	41.51	123.15	-43.608	-553.51	2,186.58	3,620.43	3,490.06	130.37	27.771			
13,900.00	13,108.00	18,705.00	10,548.45	41.67	123.15	-43.608	-553.51	2,186.58	3,643.35	3,513.13	130.22	27.978			
14,000.00	13,108.00	18,705.00	10,548.45	41.87	123.15	-43.608	-553.51	2,186.58	3,668.85	3,538.83	130.02	28.217			
14,100.00	13,108.00	18,705.00	10,548.45	42.10	123.15	-43.608	-553.51	2,186.58	3,696.88	3,567.11	129.77	28.487			
14,200.00	13,108.00	18,705.00	10,548.45	42.37	123.15	-43.608	-553.51	2,186.58	3,727.38	3,597.91	129.48	28.788			
14,300.00	13,108.00	18,705.00	10,548.45	42.69	123.15	-43.608	-553.51	2,186.58	3,760.30	3,631.17	129.13	29.119			
14,400.00	13,108.00	18,705.00	10,548.45	43.06	123.15	-43.608	-553.51	2,186.58	3,795.57	3,666.82	128.75	29.481			
14,500.00	13,108.00	18,705.00	10,548.45	43.48	123.15	-43.608	-553.51	2,186.58	3,833.12	3,704.80	128.32	29.872			
14,600.00	13,108.00	18,705.00	10,548.45	43.97	123.15	-43.608	-553.51	2,186.58	3,872.89	3,745.04	127.85	30.292			
14,700.00	13,108.00	18,705.00	10,548.45	44.53	123.15	-43.608	-553.51	2,186.58	3,914.81	3,787.46	127.35	30.740			
14,800.00	13,108.00	18,705.00	10,548.45	45.16	123.15	-43.608	-553.51	2,186.58	3,958.81	3,832.00	126.82	31.216			
14,900.00	13,108.00	18,705.00	10,548.45	45.87	123.15	-43.608	-553.51	2,186.58	4,004.83	3,878.58	126.26	31.720			
15,000.00	13,108.00	18,705.00	10,548.45	46.64	123.15	-43.608	-553.51	2,186.58	4,052.80	3,927.13	125.67	32.250			
15,100.00	13,108.00	18,705.00	10,548.45	47.49	123.15	-43.608	-553.51	2,186.58	4,102.64	3,977.58	125.06	32.806			
15,200.00	13,108.00	18,705.00	10,548.45	48.39	123.15	-43.608	-553.51	2,186.58	4,154.29	4,029.86	124.43	33.387			
15,300.00	13,108.00	18,705.00	10,548.45	49.36	123.15	-43.608	-553.51	2,186.58	4,207.68	4,083.90	123.78	33.993			
15,400.00	13,108.00	18,705.00	10,548.45	50.38	123.15	-43.608	-553.51	2,186.58	4,262.75	4,139.63	123.12	34.624			
15,500.00	13,108.00	18,705.00	10,548.45	51.44	123.15	-43.608	-553.51	2,186.58	4,319.43	4,196.99	122.44	35.277			
15,600.00	13,108.00	18,705.00	10,548.45	52.54	123.15	-43.608	-553.51	2,186.58	4,377.67	4,255.91	121.76	35.954			
15,700.00	13,108.00	18,705.00	10,548.45	53.67	123.15	-43.608	-553.51	2,186.58	4,437.39	4,316.32	121.07	36.652			
15,800.00	13,108.00	18,705.00	10,548.45	54.84	123.15	-43.608	-553.51	2,186.58	4,498.54	4,378.17	120.37	37.372			
15,900.00	13,108.00	18,705.00	10,548.45	56.02	123.15	-43.608	-553.51	2,186.58	4,561.07	4,441.40	119.67	38.113			
16,000.00	13,108.00	18,705.00	10,548.45	57.24	123.15	-43.608	-553.51	2,186.58	4,624.92	4,505.94	118.97	38.874			
16,100.00	13,108.00	18,705.00	10,548.45	58.47	123.15	-43.608	-553.51	2,186.58	4,690.02	4,571.75	118.27	39.654			
16,200.00	13,108.00	18,705.00	10,548.45	59.71	123.15	-43.608	-553.51	2,186.58	4,756.34	4,638.77	117.57	40.454			
16,300.00	13,108.00	18,705.00	10,548.45	60.97	123.15	-43.608	-553.51	2,186.58	4,823.82	4,706.94	116.88	41.272			
16,400.00	13,108.00	18,705.00	10,548.45	62.25	123.15	-43.608	-553.51	2,186.58	4,892.41	4,776.22	116.19	42.107			
16,500.00	13,108.00	18,705.00	10,548.45	63.53	123.15	-43.608	-553.51	2,186.58	4,962.08	4,846.57	115.51	42.959			
16,600.00	13,108.00	18,705.00	10,548.45	64.83	123.15	-43.608	-553.51	2,186.58	5,032.76	4,917.93	114.83	43.828			
16,700.00	13,108.00	18,705.00	10,548.45	66.13	123.15	-43.608	-553.51	2,186.58	5,104.42	4,990.26	114.16	44.713			
16,800.00	13,108.00	18,705.00	10,548.45	67.45	123.15	-43.608	-553.51	2,186.58	5,177.03	5,063.53	113.50	45.613			
16,900.00	13,108.00	18,705.00	10,548.45	68.77	123.15	-43.608	-553.51	2,186.58	5,250.53	5,137.68	112.85	46.528			
17,000.00	13,108.00	18,705.00	10,548.45	70.10	123.15	-43.608	-553.51	2,186.58	5,324.90	5,212.69	112.20	47.457			
17,100.00	13,108.00	18,705.00	10,548.45	71.43	123.15	-43.608	-553.51	2,186.58	5,400.09	5,288.52	111.57	48.400			
17,200.00	13,108.00	18,705.00	10,548.45	72.77	123.15	-43.608	-553.51	2,186.58	5,476.08	5,365.13	110.95	49.356			
17,300.00	13,108.00	18,705.00	10,548.45	74.11	123.15	-43.608	-553.51	2,186.58	5,552.83	5,442.49	110.34	50.324			
17,400.00	13,108.00	18,705.00	10,548.45	75.46	123.15	-43.608	-553.51	2,186.58	5,630.31	5,520.57	109.74	51.305			
17,500.00	13,108.00	18,705.00	10,548.45	76.81	123.15	-43.608	-553.51	2,186.58	5,708.49	5,599.34	109.16	52.297			
17,600.00	13,108.00	18,705.00	10,548.45	78.17	123.15	-43.608	-553.51	2,186.58	5,787.34	5,678.76	108.58	53.300			
17,700.00	13,108.00	18,705.00	10,548.45	79.53	123.15	-43.608	-553.51	2,186.58	5,866.84	5,758.82	108.02	54.314			
17,800.00	13,108.00	18,705.00	10,548.45	80.89	123.15	-43.608	-553.51	2,186.58	5,946.96	5,839.49	107.47	55.338			
17,900.00	13,108.00	18,705.00	10,548.45	82.26	123.15	-43.608	-553.51	2,186.58	6,027.67	5,920.74	106.93	56.372			
18,000.00	13,108.00	18,705.00	10,548.45	83.63	123.15	-43.608	-553.51	2,186.58	6,108.95	6,002.55	106.40	57.415			
18,100.00	13,108.00	18,705.00	10,548.45	85.00	123.15	-43.608	-553.51	2,186.58	6,190.78	6,084.89	105.89	58.467			
18,200.00	13,108.00	18,705.00	10,548.45	86.38	123.15	-43.608	-553.51	2,186.58	6,273.13	6,167.75	105.38	59.527			
18,300.00	13,108.00	18,705.00	10,548.45	87.76	123.15	-43.608	-553.51	2,186.58	6,355.99	6,251.10	104.89	60.595			
18,400.00	13,108.00	18,705.00	10,548.45	89.14	123.15	-43.608	-553.51	2,186.58	6,439.34	6,334.93	104.41	61.671			
18,500.00	13,108.00	18,705.00	10,548.45	90.52	123.15	-43.608	-553.51	2,186.58	6,523.16	6,419.21	103.95	62.754			
18,600.00	13,108.00	18,705.00	10,548.45	91.90	123.15	-43.608	-553.51	2,186.58	6,607.42	6,503.93	103.49	63.843			
18,700.00	13,108.00	18,705.00	10,548.45	93.29	123.15	-43.608	-553.51	2,186.58	6,692.12	6,589.07	103.05	64.940			
18,800.00	13,108.00	18,705.00	10,548.45	94.68	123.15	-43.608	-553.51	2,186.58	6,777.24	6,674.62	102.62	66.042			
18,900.00	13,108.00	18,705.00	10,548.45	96.06	123.15	-43.608	-553.51	2,186.58	6,862.76	6,760.56	102.20	67.150			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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:		Distance		Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
19,000.00	13,108.00	18,705.00	10,548.45	97.46	123.15	-43.608	-553.51	2,186.58	6,948.66	6,846.87	101.79	68.263			
19,100.00	13,108.00	18,705.00	10,548.45	98.85	123.15	-43.608	-553.51	2,186.58	7,034.94	6,933.55	101.40	69.381			
19,200.00	13,108.00	18,705.00	10,548.45	100.24	123.15	-43.608	-553.51	2,186.58	7,121.58	7,020.57	101.01	70.504			
19,300.00	13,108.00	18,705.00	10,548.45	101.64	123.15	-43.608	-553.51	2,186.58	7,208.56	7,107.93	100.63	71.632			
19,400.00	13,108.00	18,705.00	10,548.45	103.03	123.15	-43.608	-553.51	2,186.58	7,295.88	7,195.61	100.27	72.763			
19,500.00	13,108.00	18,705.00	10,548.45	104.43	123.15	-43.608	-553.51	2,186.58	7,383.51	7,283.60	99.91	73.898			
19,600.00	13,108.00	18,705.00	10,548.45	105.83	123.15	-43.608	-553.51	2,186.58	7,471.46	7,371.89	99.57	75.037			
19,700.00	13,108.00	18,705.00	10,548.45	107.23	123.15	-43.608	-553.51	2,186.58	7,559.71	7,460.47	99.24	76.179			
19,800.00	13,108.00	18,705.00	10,548.45	108.63	123.15	-43.608	-553.51	2,186.58	7,648.25	7,549.34	98.91	77.324			
19,900.00	13,108.00	18,705.00	10,548.45	110.03	123.15	-43.608	-553.51	2,186.58	7,737.06	7,638.47	98.60	78.471			
20,000.00	13,108.00	18,705.00	10,548.45	111.43	123.15	-43.608	-553.51	2,186.58	7,826.15	7,727.86	98.29	79.621			
20,100.00	13,108.00	18,705.00	10,548.45	112.84	123.15	-43.608	-553.51	2,186.58	7,915.50	7,817.50	98.00	80.773			
20,200.00	13,108.00	18,705.00	10,548.45	114.24	123.15	-43.608	-553.51	2,186.58	8,005.10	7,907.39	97.71	81.927			
20,300.00	13,108.00	18,705.00	10,548.45	115.65	123.15	-43.608	-553.51	2,186.58	8,094.94	7,997.51	97.43	83.083			
20,400.00	13,108.00	18,705.00	10,548.45	117.05	123.15	-43.608	-553.51	2,186.58	8,185.02	8,087.85	97.16	84.240			
20,500.00	13,108.00	18,705.00	10,548.45	118.46	123.15	-43.608	-553.51	2,186.58	8,275.32	8,178.42	96.90	85.398			
20,600.00	13,108.00	18,705.00	10,548.45	119.87	123.15	-43.608	-553.51	2,186.58	8,365.85	8,269.20	96.65	86.557			
20,700.00	13,108.00	18,705.00	10,548.45	121.28	123.15	-43.608	-553.51	2,186.58	8,456.59	8,360.18	96.41	87.717			
20,800.00	13,108.00	18,705.00	10,548.45	122.68	123.15	-43.608	-553.51	2,186.58	8,547.54	8,451.36	96.17	88.877			
20,900.00	13,108.00	18,705.00	10,548.45	124.09	123.15	-43.608	-553.51	2,186.58	8,638.68	8,542.74	95.94	90.038			
21,000.00	13,108.00	18,705.00	10,548.45	125.51	123.15	-43.608	-553.51	2,186.58	8,730.02	8,634.30	95.72	91.199			
21,100.00	13,108.00	18,705.00	10,548.45	126.92	123.15	-43.608	-553.51	2,186.58	8,821.55	8,726.04	95.51	92.360			
21,200.00	13,108.00	18,705.00	10,548.45	128.33	123.15	-43.608	-553.51	2,186.58	8,913.26	8,817.96	95.31	93.521			
21,300.00	13,108.00	18,705.00	10,548.45	129.74	123.15	-43.608	-553.51	2,186.58	9,005.15	8,910.04	95.11	94.682			
21,400.00	13,108.00	18,705.00	10,548.45	131.15	123.15	-43.608	-553.51	2,186.58	9,097.21	9,002.29	94.92	95.842			
21,500.00	13,108.00	18,705.00	10,548.45	132.57	123.15	-43.608	-553.51	2,186.58	9,189.43	9,094.70	94.74	97.001			
21,600.00	13,108.00	18,705.00	10,548.45	133.98	123.15	-43.608	-553.51	2,186.58	9,281.82	9,187.26	94.56	98.159			
21,700.00	13,108.00	18,705.00	10,548.45	135.39	123.15	-43.608	-553.51	2,186.58	9,374.36	9,279.97	94.39	99.317			
21,800.00	13,108.00	18,705.00	10,548.45	136.81	123.15	-43.608	-553.51	2,186.58	9,467.05	9,372.83	94.22	100.473			
21,900.00	13,108.00	18,705.00	10,548.45	138.22	123.15	-43.608	-553.51	2,186.58	9,559.89	9,465.82	94.07	101.628			
22,000.00	13,108.00	18,705.00	10,548.45	139.64	123.15	-43.608	-553.51	2,186.58	9,652.88	9,558.96	93.92	102.782			
22,100.00	13,108.00	18,705.00	10,548.45	141.06	123.15	-43.608	-553.51	2,186.58	9,746.00	9,652.23	93.77	103.934			
22,200.00	13,108.00	18,705.00	10,548.45	142.47	123.15	-43.608	-553.51	2,186.58	9,839.26	9,745.62	93.63	105.084			
22,300.00	13,108.00	18,705.00	10,548.45	143.89	123.15	-43.608	-553.51	2,186.58	9,932.64	9,839.14	93.50	106.232			
22,400.00	13,108.00	18,705.00	10,548.45	145.31	123.15	-43.608	-553.51	2,186.58	10,026.16	9,932.79	93.37	107.379			
22,500.00	13,108.00	18,705.00	10,548.45	146.72	123.15	-43.608	-553.51	2,186.58	10,119.80	10,026.55	93.25	108.523			
22,600.00	13,108.00	18,705.00	10,548.45	148.14	123.15	-43.608	-553.51	2,186.58	10,213.56	10,120.43	93.13	109.666			
22,700.00	13,108.00	18,705.00	10,548.45	149.56	123.15	-43.608	-553.51	2,186.58	10,307.44	10,214.42	93.02	110.806			
22,800.00	13,108.00	18,705.00	10,548.45	150.98	123.15	-43.608	-553.51	2,186.58	10,401.43	10,308.51	92.92	111.944			
22,900.00	13,108.00	18,705.00	10,548.45	152.40	123.15	-43.608	-553.51	2,186.58	10,495.53	10,402.72	92.82	113.079			
23,000.00	13,108.00	18,705.00	10,548.45	153.82	123.15	-43.608	-553.51	2,186.58	10,589.75	10,497.03	92.72	114.212			
23,100.00	13,108.00	18,705.00	10,548.45	155.24	123.15	-43.608	-553.51	2,186.58	10,684.06	10,591.43	92.63	115.342			
23,200.00	13,108.00	18,705.00	10,548.45	156.66	123.15	-43.608	-553.51	2,186.58	10,778.48	10,685.94	92.54	116.469			
23,247.14	13,108.00	18,705.00	10,548.45	157.33	123.15	-43.608	-553.51	2,186.58	10,823.02	10,730.52	92.50	117.000			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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	97.19	56.19	1.00	1.15	15.522	7,826.66	2,173.83	8,123.14				
100.00	100.00	222.03	181.02	1.08	1.77	15.525	7,825.33	2,173.85	8,122.07	8,119.22	2.85	2,850.811	
200.00	200.00	292.06	251.05	1.60	2.30	15.525	7,824.77	2,173.72	8,121.25	8,117.35	3.90	2,080.749	
300.00	300.00	358.00	316.99	2.01	2.84	15.524	7,824.53	2,173.47	8,120.81	8,115.96	4.85	1,672.948	
389.45	389.45	430.46	389.45	2.32	3.07	15.523	7,824.47	2,173.32	8,120.69	8,115.30	5.39	1,507.072	
400.00	400.00	438.49	397.47	2.35	3.10	15.523	7,824.47	2,173.33	8,120.69	8,115.24	5.45	1,489.864	
500.00	500.00	514.54	473.52	2.65	3.34	15.525	7,824.52	2,173.65	8,120.87	8,114.88	5.99	1,354.835	
600.00	600.00	608.50	567.49	2.93	3.78	15.530	7,824.69	2,174.42	8,121.27	8,114.57	6.70	1,211.850	
700.00	700.00	710.47	669.45	3.18	4.31	15.535	7,824.91	2,175.12	8,121.66	8,114.18	7.48	1,085.903	
800.00	800.00	798.24	757.22	3.41	4.51	15.539	7,825.13	2,175.80	8,122.10	8,114.21	7.89	1,028.825	
900.00	900.00	894.94	853.91	3.64	4.81	15.544	7,825.44	2,176.67	8,122.66	8,114.24	8.41	965.658	
1,000.00	1,000.00	990.00	948.97	3.85	5.13	15.547	7,825.87	2,177.18	8,123.24	8,114.31	8.93	909.842	
1,100.00	1,100.00	1,067.09	1,026.06	4.05	5.37	15.547	7,826.41	2,177.40	8,123.99	8,114.63	9.36	867.573	
1,200.00	1,200.00	1,145.00	1,103.96	4.24	5.61	15.546	7,827.25	2,177.49	8,125.06	8,115.26	9.80	829.201	
1,300.00	1,300.00	1,239.48	1,198.44	4.43	5.93	15.542	7,828.54	2,177.22	8,126.30	8,115.97	10.33	786.547	
1,400.00	1,400.00	2,095.00	2,052.02	4.61	15.84	15.650	7,800.84	2,185.41	8,127.38	8,110.81	16.57	490.416	
1,500.00	1,500.00	2,095.00	2,052.02	4.78	15.84	15.650	7,800.84	2,185.41	8,119.97	8,103.21	16.76	484.564	
1,600.00	1,599.98	2,095.00	2,052.02	4.99	15.84	165.482	7,800.84	2,185.41	8,115.47	8,098.51	16.96	478.618	
1,638.42	1,638.36	2,095.00	2,052.02	5.04	15.84	165.485	7,800.84	2,185.41	8,114.97	8,097.96	17.01	477.074	
1,672.69	1,672.60	2,095.00	2,052.02	5.07	15.84	165.485	7,800.84	2,185.41	8,114.90	8,097.85	17.05	476.062	
1,700.00	1,699.87	2,095.00	2,052.02	5.10	15.84	165.485	7,800.84	2,185.41	8,114.94	8,097.87	17.07	475.268	
1,759.27	1,759.08	2,171.95	2,128.56	5.19	16.23	165.534	7,794.38	2,189.90	8,113.48	8,095.16	18.32	442.907	
1,800.00	1,799.76	2,179.83	2,136.39	5.26	16.27	165.540	7,793.86	2,190.50	8,113.61	8,095.11	18.50	438.513	
1,900.00	1,899.64	2,199.15	2,155.61	5.44	16.38	165.555	7,792.68	2,192.08	8,114.64	8,095.66	18.98	427.532	
2,000.00	1,999.52	2,285.00	2,240.93	5.64	16.96	165.629	7,789.33	2,201.01	8,118.07	8,097.58	20.48	396.322	
2,100.00	2,099.41	2,285.00	2,240.93	5.84	16.96	165.629	7,789.33	2,201.01	8,120.39	8,099.70	20.69	392.431	
2,200.00	2,199.29	2,285.00	2,240.93	6.07	16.96	165.629	7,789.33	2,201.01	8,123.94	8,103.03	20.91	388.531	
2,300.00	2,299.17	2,285.00	2,240.93	6.30	16.96	165.629	7,789.33	2,201.01	8,128.72	8,107.59	21.13	384.650	
2,400.00	2,399.06	2,285.00	2,240.93	6.54	16.96	165.629	7,789.33	2,201.01	8,134.73	8,113.37	21.36	380.809	
2,500.00	2,498.94	2,285.00	2,240.93	6.79	16.96	165.629	7,789.33	2,201.01	8,141.96	8,120.37	21.60	377.027	
2,600.00	2,598.82	2,367.64	2,323.04	7.04	17.57	165.699	7,788.71	2,210.19	8,149.14	8,125.81	23.33	349.285	
2,700.00	2,698.71	2,400.33	2,355.58	7.31	17.88	165.723	7,789.10	2,213.32	8,157.61	8,133.44	24.18	337.434	
2,800.00	2,798.59	2,473.00	2,427.98	7.58	18.74	165.765	7,791.26	2,219.25	8,167.20	8,141.42	25.78	316.853	
2,900.00	2,898.47	2,473.00	2,427.98	7.85	18.74	165.765	7,791.26	2,219.25	8,177.01	8,150.99	26.02	314.211	
3,000.00	2,998.36	2,541.39	2,496.12	8.13	18.93	165.799	7,794.12	2,224.34	8,187.71	8,161.21	26.51	308.892	
3,100.00	3,098.24	2,629.07	2,583.44	8.41	19.18	165.847	7,797.75	2,231.36	8,198.59	8,171.53	27.06	302.972	
3,200.00	3,198.12	2,788.97	2,742.59	8.70	19.46	165.945	7,803.59	2,245.67	8,209.34	8,181.70	27.63	297.083	
3,300.00	3,298.01	19,177.00	10,930.61	8.99	127.47	-117.241	-547.70	2,836.52	8,171.22	8,091.72	79.49	102.790	
3,400.00	3,397.89	19,177.00	10,930.61	9.28	127.47	-117.241	-547.70	2,836.52	8,078.62	7,998.85	79.77	101.275	
3,500.00	3,497.77	19,177.00	10,930.61	9.58	127.47	-117.241	-547.70	2,836.52	7,986.20	7,906.14	80.05	99.761	
3,600.00	3,597.66	19,177.00	10,930.61	9.88	127.47	-117.241	-547.70	2,836.52	7,893.96	7,813.62	80.35	98.250	
3,700.00	3,697.54	19,177.00	10,930.61	10.18	127.47	-117.241	-547.70	2,836.52	7,801.92	7,721.27	80.65	96.741	
3,800.00	3,797.42	19,177.00	10,930.61	10.49	127.47	-117.241	-547.70	2,836.52	7,710.07	7,629.11	80.96	95.235	
3,900.00	3,897.31	19,177.00	10,930.61	10.79	127.47	-117.241	-547.70	2,836.52	7,618.43	7,537.15	81.28	93.731	
4,000.00	3,997.19	19,177.00	10,930.61	11.10	127.47	-117.241	-547.70	2,836.52	7,527.00	7,445.39	81.61	92.230	
4,100.00	4,097.07	19,177.00	10,930.61	11.41	127.47	-117.241	-547.70	2,836.52	7,435.79	7,353.84	81.95	90.732	
4,200.00	4,196.96	19,177.00	10,930.61	11.72	127.47	-117.241	-547.70	2,836.52	7,344.81	7,262.51	82.31	89.238	
4,300.00	4,296.84	19,177.00	10,930.61	12.03	127.47	-117.241	-547.70	2,836.52	7,254.07	7,171.40	82.67	87.748	
4,400.00	4,396.72	19,177.00	10,930.61	12.35	127.47	-117.241	-547.70	2,836.52	7,163.58	7,080.53	83.05	86.261	
4,500.00	4,496.61	19,177.00	10,930.61	12.66	127.47	-117.241	-547.70	2,836.52	7,073.34	6,989.90	83.43	84.778	
4,600.00	4,596.49	19,177.00	10,930.61	12.98	127.47	-117.241	-547.70	2,836.52	6,983.36	6,899.53	83.83	83.300	
4,700.00	4,696.37	19,177.00	10,930.61	13.29	127.47	-117.241	-547.70	2,836.52	6,893.67	6,809.42	84.25	81.827	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 4 - Cattleman Fed Com 204H - OH / 69917 - Surveys H&P 656)												Offset Site Error:	0.00 usft
Survey Program: 175-MWD+HRGM												Offset Well Error:	1.00 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,800.00	4,796.26	19,177.00	10,930.61	13.61	127.47	-117.241	-547.70	2,836.52	6,804.26	6,719.58	84.67	80.358	
4,900.00	4,896.14	19,177.00	10,930.61	13.93	127.47	-117.241	-547.70	2,836.52	6,715.15	6,630.03	85.11	78.895	
5,000.00	4,996.02	19,177.00	10,930.61	14.25	127.47	-117.241	-547.70	2,836.52	6,626.35	6,540.78	85.57	77.438	
5,100.00	5,095.91	19,177.00	10,930.61	14.57	127.47	-117.241	-547.70	2,836.52	6,537.87	6,451.83	86.04	75.986	
5,200.00	5,195.79	19,177.00	10,930.61	14.89	127.47	-117.241	-547.70	2,836.52	6,449.73	6,363.20	86.53	74.541	
5,300.00	5,295.67	19,177.00	10,930.61	15.21	127.47	-117.241	-547.70	2,836.52	6,361.94	6,274.91	87.03	73.102	
5,400.00	5,395.56	19,177.00	10,930.61	15.54	127.47	-117.241	-547.70	2,836.52	6,274.52	6,186.97	87.55	71.670	
5,500.00	5,495.44	19,177.00	10,930.61	15.86	127.47	-117.241	-547.70	2,836.52	6,187.47	6,099.39	88.08	70.246	
5,600.00	5,595.32	19,177.00	10,930.61	16.19	127.47	-117.241	-547.70	2,836.52	6,100.83	6,012.19	88.64	68.829	
5,700.00	5,695.21	19,177.00	10,930.61	16.51	127.47	-117.241	-547.70	2,836.52	6,014.60	5,925.39	89.21	67.420	
5,800.00	5,795.09	19,177.00	10,930.61	16.83	127.47	-117.241	-547.70	2,836.52	5,928.80	5,838.99	89.80	66.020	
5,900.00	5,894.97	19,177.00	10,930.61	17.16	127.47	-117.241	-547.70	2,836.52	5,843.45	5,753.03	90.42	64.628	
6,000.00	5,994.86	19,177.00	10,930.61	17.49	127.47	-117.241	-547.70	2,836.52	5,758.58	5,667.53	91.05	63.246	
6,100.00	6,094.74	19,177.00	10,930.61	17.81	127.47	-117.241	-547.70	2,836.52	5,674.19	5,582.49	91.71	61.874	
6,200.00	6,194.62	19,177.00	10,930.61	18.14	127.47	-117.241	-547.70	2,836.52	5,590.32	5,497.94	92.38	60.512	
6,300.00	6,294.51	19,177.00	10,930.61	18.47	127.47	-117.241	-547.70	2,836.52	5,507.00	5,413.91	93.08	59.161	
6,400.00	6,394.39	19,177.00	10,930.61	18.79	127.47	-117.241	-547.70	2,836.52	5,424.23	5,330.42	93.81	57.822	
6,500.00	6,494.27	19,177.00	10,930.61	19.12	127.47	-117.241	-547.70	2,836.52	5,342.06	5,247.50	94.56	56.494	
6,600.00	6,594.16	19,177.00	10,930.61	19.45	127.47	-117.241	-547.70	2,836.52	5,260.50	5,165.16	95.34	55.179	
6,700.00	6,694.04	19,176.58	10,930.63	19.78	127.46	-117.248	-547.28	2,836.54	5,179.59	5,083.45	96.14	53.878	
6,800.00	6,793.92	19,175.21	10,930.71	20.11	127.44	-117.274	-545.92	2,836.58	5,099.35	5,002.39	96.96	52.595	
6,900.00	6,893.81	19,173.85	10,930.79	20.44	127.42	-117.299	-544.55	2,836.62	5,019.82	4,922.02	97.80	51.325	
7,000.00	6,993.69	19,172.48	10,930.87	20.77	127.40	-117.325	-543.19	2,836.67	4,941.04	4,842.36	98.68	50.071	
7,100.00	7,093.57	19,171.11	10,930.94	21.10	127.39	-117.351	-541.82	2,836.71	4,863.04	4,763.45	99.59	48.831	
7,200.00	7,193.46	19,169.74	10,931.02	21.43	127.37	-117.376	-540.46	2,836.75	4,785.86	4,685.33	100.53	47.608	
7,300.00	7,293.34	19,168.38	10,931.10	21.76	127.35	-117.402	-539.10	2,836.80	4,709.53	4,608.03	101.50	46.401	
7,400.00	7,393.22	19,167.01	10,931.17	22.09	127.33	-117.427	-537.73	2,836.84	4,634.10	4,531.61	102.50	45.212	
7,500.00	7,493.11	19,165.64	10,931.25	22.42	127.31	-117.453	-536.37	2,836.88	4,559.62	4,456.09	103.53	44.041	
7,600.00	7,592.99	19,164.28	10,931.33	22.75	127.30	-117.478	-535.00	2,836.93	4,486.13	4,381.54	104.60	42.889	
7,700.00	7,692.87	19,162.91	10,931.40	23.08	127.28	-117.504	-533.64	2,836.97	4,413.69	4,307.99	105.70	41.757	
7,800.00	7,792.76	19,161.54	10,931.48	23.41	127.26	-117.529	-532.27	2,837.02	4,342.34	4,235.50	106.83	40.646	
7,900.00	7,892.64	19,160.17	10,931.56	23.74	127.24	-117.555	-530.91	2,837.06	4,272.13	4,164.13	108.00	39.557	
8,000.00	7,992.52	19,158.81	10,931.63	24.07	127.22	-117.580	-529.55	2,837.10	4,203.13	4,093.93	109.20	38.489	
8,100.00	8,092.41	19,157.44	10,931.71	24.40	127.20	-117.606	-528.18	2,837.15	4,135.40	4,024.97	110.44	37.446	
8,200.00	8,192.29	19,156.07	10,931.79	24.74	127.19	-117.631	-526.82	2,837.19	4,069.00	3,957.30	111.70	36.426	
8,300.00	8,292.17	19,154.71	10,931.86	25.07	127.17	-117.657	-525.45	2,837.23	4,004.00	3,890.99	113.00	35.432	
8,400.00	8,392.06	19,153.34	10,931.94	25.40	127.15	-117.682	-524.09	2,837.28	3,940.46	3,826.12	114.34	34.464	
8,500.00	8,491.94	19,151.97	10,932.02	25.73	127.13	-117.708	-522.73	2,837.32	3,878.45	3,762.76	115.70	33.523	
8,600.00	8,591.82	19,150.60	10,932.09	26.07	127.11	-117.734	-521.36	2,837.36	3,818.06	3,700.98	117.09	32.609	
8,700.00	8,691.71	19,149.24	10,932.17	26.40	127.09	-117.759	-520.00	2,837.41	3,759.36	3,640.86	118.50	31.724	
8,800.00	8,791.59	19,147.87	10,932.25	26.73	127.08	-117.785	-518.63	2,837.45	3,702.43	3,582.49	119.94	30.869	
8,900.00	8,891.47	19,146.50	10,932.32	27.06	127.06	-117.810	-517.27	2,837.49	3,647.35	3,525.95	121.40	30.044	
9,000.00	8,991.36	19,145.14	10,932.40	27.40	127.04	-117.836	-515.90	2,837.54	3,594.21	3,471.34	122.88	29.250	
9,100.00	9,091.24	19,143.77	10,932.48	27.73	127.02	-117.861	-514.54	2,837.58	3,543.10	3,418.73	124.37	28.488	
9,200.00	9,191.12	19,142.40	10,932.55	28.06	127.00	-117.887	-513.18	2,837.63	3,494.10	3,368.23	125.87	27.759	
9,300.00	9,291.01	19,141.03	10,932.63	28.40	126.98	-117.912	-511.81	2,837.67	3,447.31	3,319.93	127.38	27.064	
9,400.00	9,390.89	19,139.67	10,932.71	28.73	126.97	-117.938	-510.45	2,837.71	3,402.81	3,273.92	128.88	26.402	
9,500.00	9,490.77	19,138.30	10,932.78	29.06	126.95	-117.963	-509.08	2,837.76	3,360.69	3,230.31	130.38	25.776	
9,600.00	9,590.66	19,136.93	10,932.86	29.40	126.93	-117.989	-507.72	2,837.80	3,321.06	3,189.19	131.87	25.184	
9,700.00	9,690.54	19,135.57	10,932.94	29.73	126.91	-118.014	-506.35	2,837.84	3,283.99	3,150.65	133.34	24.629	
9,800.00	9,790.42	19,134.20	10,933.02	30.06	126.89	-118.040	-504.99	2,837.89	3,249.58	3,114.79	134.78	24.109	
9,900.00	9,890.31	19,132.83	10,933.09	30.40	126.87	-118.065	-503.63	2,837.93	3,217.90	3,081.71	136.20	23.627	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattleman Fed Com 4 - Cattleman Fed Com 204H - OH / 69917 - Surveys H&P 656)													Offset Site Error: 0.00 usft
Survey Program: 175-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,000.00	9,990.19	19,131.47	10,933.17	30.73	126.86	-118.091	-502.26	2,837.97	3,189.05	3,051.48	137.57	23.181	
10,100.00	10,090.07	19,132.80	10,933.10	31.07	126.87	-118.066	-503.60	2,837.93	3,163.10	3,024.18	138.91	22.770	
10,200.00	10,189.96	19,131.03	10,933.20	31.40	126.85	-118.099	-501.82	2,837.98	3,140.12	2,999.93	140.19	22.399	
10,300.00	10,289.84	19,129.23	10,933.30	31.74	126.83	-118.133	-500.03	2,838.04	3,120.17	2,978.77	141.40	22.066	
10,400.00	10,389.72	19,127.42	10,933.40	32.07	126.80	-118.167	-498.22	2,838.10	3,103.32	2,960.77	142.55	21.770	
10,500.00	10,489.60	19,125.58	10,933.50	32.40	126.78	-118.201	-496.39	2,838.16	3,089.62	2,945.99	143.63	21.511	
10,600.00	10,589.49	19,123.73	10,933.60	32.74	126.75	-118.236	-494.54	2,838.22	3,079.10	2,934.47	144.63	21.289	
10,700.00	10,689.37	19,121.86	10,933.71	33.07	126.73	-118.271	-492.67	2,838.28	3,071.81	2,926.26	145.55	21.104	
10,800.00	10,789.25	19,119.96	10,933.82	33.41	126.70	-118.306	-490.78	2,838.34	3,067.76	2,921.37	146.39	20.956	
10,874.43	10,863.60	19,118.54	10,933.90	33.66	126.68	-118.332	-489.36	2,838.39	3,066.85	2,919.90	146.96	20.869 CC	
10,900.00	10,889.14	19,118.05	10,933.92	33.74	126.68	-118.342	-488.87	2,838.40	3,066.96	2,919.82	147.14	20.844 ES	
11,000.00	10,989.02	19,116.11	10,934.03	34.08	126.65	-118.378	-486.94	2,838.46	3,069.42	2,921.62	147.80	20.767	
11,100.00	11,088.90	19,114.16	10,934.14	34.41	126.62	-118.414	-484.99	2,838.52	3,075.14	2,926.76	148.38	20.725	
11,200.00	11,188.79	19,112.18	10,934.25	34.75	126.60	-118.451	-483.01	2,838.58	3,084.08	2,935.22	148.86	20.718 SF	
11,300.00	11,288.67	19,110.18	10,934.37	35.08	126.57	-118.489	-481.02	2,838.65	3,096.23	2,946.98	149.26	20.744	
11,400.00	11,388.55	19,108.15	10,934.48	35.42	126.54	-118.526	-479.00	2,838.71	3,111.55	2,961.98	149.57	20.803	
11,500.00	11,488.44	19,106.11	10,934.60	35.75	126.52	-118.565	-476.96	2,838.77	3,129.99	2,980.19	149.80	20.895	
11,600.00	11,588.32	19,104.04	10,934.72	36.09	126.49	-118.603	-474.89	2,838.83	3,151.49	3,001.54	149.95	21.017	
11,700.00	11,688.20	19,101.95	10,934.83	36.42	126.46	-118.642	-472.81	2,838.90	3,176.00	3,025.97	150.03	21.169	
11,800.00	11,788.09	19,099.83	10,934.95	36.76	126.43	-118.682	-470.69	2,838.96	3,203.44	3,053.41	150.04	21.351	
11,900.00	11,887.97	19,097.69	10,935.08	37.09	126.40	-118.722	-468.56	2,839.02	3,233.74	3,083.76	149.98	21.561	
11,908.72	11,896.68	19,097.50	10,935.09	37.12	126.40	-118.725	-468.37	2,839.03	3,236.52	3,086.54	149.98	21.580	
12,000.00	11,987.91	19,093.63	10,935.31	37.41	126.35	-119.346	-464.51	2,839.14	3,266.16	3,116.32	149.84	21.798	
12,047.14	12,035.04	19,090.13	10,935.51	37.47	126.30	90.491	-461.02	2,839.25	3,281.83	3,132.15	149.69	21.925	
12,100.00	12,087.91	19,085.62	10,935.77	37.47	126.24	90.407	-456.51	2,839.37	3,299.92	3,150.45	149.47	22.078	
12,200.00	12,187.91	19,077.01	10,936.27	37.48	126.13	90.248	-447.92	2,839.62	3,336.14	3,187.11	149.03	22.385	
12,300.00	12,287.91	19,068.30	10,936.77	37.48	126.01	90.087	-439.23	2,839.86	3,374.93	3,226.36	148.57	22.717	
12,400.00	12,387.91	19,059.50	10,937.28	37.49	125.89	89.924	-430.44	2,840.09	3,416.18	3,268.11	148.07	23.071	
12,500.00	12,487.91	19,050.90	10,937.79	37.50	125.78	89.765	-421.86	2,840.31	3,459.82	3,312.27	147.56	23.448	
12,547.14	12,535.04	19,046.92	10,938.02	37.49	125.72	89.692	-417.90	2,840.41	3,481.20	3,333.90	147.30	23.633	
12,550.00	12,537.91	19,046.69	10,938.03	37.50	125.72	-89.589	-417.66	2,840.42	3,482.51	3,335.23	147.28	23.645	
12,600.00	12,587.83	19,045.96	10,938.08	37.64	125.71	-86.984	-416.94	2,840.43	3,505.72	3,358.65	147.06	23.838	
12,650.00	12,637.36	19,051.50	10,937.75	37.90	125.78	-84.219	-422.47	2,840.29	3,529.28	3,382.37	146.91	24.023	
12,700.00	12,686.10	19,063.79	10,937.03	38.17	125.95	-81.327	-434.72	2,839.98	3,552.98	3,406.15	146.83	24.199	
12,750.00	12,733.70	19,083.02	10,935.92	38.46	126.21	-78.354	-453.91	2,839.45	3,576.60	3,429.79	146.81	24.362	
12,800.00	12,779.78	19,108.80	10,934.45	38.75	126.55	-75.360	-479.64	2,838.69	3,599.90	3,453.03	146.87	24.511	
12,850.00	12,824.00	19,134.23	10,933.01	39.03	126.89	-72.507	-505.02	2,837.89	3,622.62	3,475.66	146.96	24.650	
12,900.00	12,866.02	19,158.87	10,931.63	39.31	127.22	-69.833	-529.61	2,837.10	3,644.58	3,497.49	147.09	24.778	
12,950.00	12,905.52	19,177.00	10,930.61	39.57	127.47	-67.433	-547.70	2,836.52	3,665.55	3,518.33	147.22	24.898	
13,000.00	12,942.21	19,177.00	10,930.61	39.82	127.47	-65.436	-547.70	2,836.52	3,685.53	3,538.23	147.30	25.021	
13,050.00	12,975.79	19,177.00	10,930.61	40.06	127.47	-63.596	-547.70	2,836.52	3,704.41	3,557.01	147.40	25.131	
13,100.00	13,006.02	19,177.00	10,930.61	40.27	127.47	-61.917	-547.70	2,836.52	3,722.07	3,574.53	147.53	25.229	
13,150.00	13,032.66	19,177.00	10,930.61	40.46	127.47	-60.405	-547.70	2,836.52	3,738.39	3,590.69	147.69	25.312	
13,200.00	13,055.52	19,177.00	10,930.61	40.63	127.47	-59.059	-547.70	2,836.52	3,753.27	3,605.39	147.87	25.381	
13,250.00	13,074.42	19,177.00	10,930.61	40.77	127.47	-57.879	-547.70	2,836.52	3,766.61	3,618.53	148.08	25.436	
13,300.00	13,089.21	19,177.00	10,930.61	40.89	127.47	-56.863	-547.70	2,836.52	3,778.32	3,630.02	148.31	25.476	
13,350.00	13,099.79	19,177.00	10,930.61	40.99	127.47	-56.011	-547.70	2,836.52	3,788.34	3,639.79	148.55	25.502	
13,400.00	13,106.06	19,177.00	10,930.61	41.06	127.47	-55.319	-547.70	2,836.52	3,796.61	3,647.79	148.82	25.512	
13,447.14	13,108.00	19,177.00	10,930.61	41.11	127.47	-54.812	-547.70	2,836.52	3,802.74	3,653.66	149.08	25.508	
13,500.00	13,108.00	19,177.00	10,930.61	41.15	127.47	-54.812	-547.70	2,836.52	3,809.06	3,659.72	149.34	25.506	
13,600.00	13,108.00	19,177.00	10,930.61	41.25	127.47	-54.812	-547.70	2,836.52	3,822.99	3,673.22	149.77	25.526	
13,700.00	13,108.00	19,177.00	10,930.61	41.37	127.47	-54.812	-547.70	2,836.52	3,839.48	3,689.34	150.14	25.572	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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: Reference		175-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	13,108.00	19,177.00	10,930.61	41.51	127.47	-54.812	-547.70	2,836.52	3,858.49	3,708.03	150.46	25.645		
13,900.00	13,108.00	19,177.00	10,930.61	41.67	127.47	-54.812	-547.70	2,836.52	3,879.98	3,729.27	150.71	25.745		
14,000.00	13,108.00	19,177.00	10,930.61	41.87	127.47	-54.812	-547.70	2,836.52	3,903.92	3,753.01	150.90	25.870		
14,100.00	13,108.00	19,177.00	10,930.61	42.10	127.47	-54.812	-547.70	2,836.52	3,930.25	3,779.22	151.04	26.022		
14,200.00	13,108.00	19,177.00	10,930.61	42.37	127.47	-54.812	-547.70	2,836.52	3,958.94	3,807.83	151.11	26.199		
14,300.00	13,108.00	19,177.00	10,930.61	42.69	127.47	-54.812	-547.70	2,836.52	3,989.93	3,838.80	151.13	26.401		
14,400.00	13,108.00	19,177.00	10,930.61	43.06	127.47	-54.812	-547.70	2,836.52	4,023.17	3,872.08	151.08	26.629		
14,500.00	13,108.00	19,177.00	10,930.61	43.48	127.47	-54.812	-547.70	2,836.52	4,058.59	3,907.61	150.99	26.880		
14,600.00	13,108.00	19,177.00	10,930.61	43.97	127.47	-54.812	-547.70	2,836.52	4,096.16	3,945.32	150.84	27.156		
14,700.00	13,108.00	19,177.00	10,930.61	44.53	127.47	-54.812	-547.70	2,836.52	4,135.80	3,985.16	150.64	27.455		
14,800.00	13,108.00	19,177.00	10,930.61	45.16	127.47	-54.812	-547.70	2,836.52	4,177.46	4,027.07	150.39	27.778		
14,900.00	13,108.00	19,177.00	10,930.61	45.87	127.47	-54.812	-547.70	2,836.52	4,221.08	4,070.98	150.10	28.122		
15,000.00	13,108.00	19,177.00	10,930.61	46.64	127.47	-54.812	-547.70	2,836.52	4,266.59	4,116.83	149.76	28.489		
15,100.00	13,108.00	19,177.00	10,930.61	47.49	127.47	-54.812	-547.70	2,836.52	4,313.95	4,164.56	149.39	28.877		
15,200.00	13,108.00	19,177.00	10,930.61	48.39	127.47	-54.812	-547.70	2,836.52	4,363.08	4,214.10	148.98	29.286		
15,300.00	13,108.00	19,177.00	10,930.61	49.36	127.47	-54.812	-547.70	2,836.52	4,413.93	4,265.39	148.54	29.715		
15,400.00	13,108.00	19,177.00	10,930.61	50.38	127.47	-54.812	-547.70	2,836.52	4,466.44	4,318.37	148.07	30.165		
15,500.00	13,108.00	19,177.00	10,930.61	51.44	127.47	-54.812	-547.70	2,836.52	4,520.56	4,372.99	147.57	30.633		
15,600.00	13,108.00	19,177.00	10,930.61	52.54	127.47	-54.812	-547.70	2,836.52	4,576.22	4,429.17	147.05	31.120		
15,700.00	13,108.00	19,177.00	10,930.61	53.67	127.47	-54.812	-547.70	2,836.52	4,633.37	4,486.86	146.51	31.626		
15,800.00	13,108.00	19,177.00	10,930.61	54.84	127.47	-54.812	-547.70	2,836.52	4,691.95	4,546.01	145.94	32.149		
15,900.00	13,108.00	19,177.00	10,930.61	56.02	127.47	-54.812	-547.70	2,836.52	4,751.92	4,606.56	145.36	32.690		
16,000.00	13,108.00	19,177.00	10,930.61	57.24	127.47	-54.812	-547.70	2,836.52	4,813.22	4,668.45	144.77	33.247		
16,100.00	13,108.00	19,177.00	10,930.61	58.47	127.47	-54.812	-547.70	2,836.52	4,875.80	4,731.63	144.17	33.821		
16,200.00	13,108.00	19,177.00	10,930.61	59.71	127.47	-54.812	-547.70	2,836.52	4,939.61	4,796.06	143.55	34.410		
16,300.00	13,108.00	19,177.00	10,930.61	60.97	127.47	-54.812	-547.70	2,836.52	5,004.60	4,861.67	142.93	35.015		
16,400.00	13,108.00	19,177.00	10,930.61	62.25	127.47	-54.812	-547.70	2,836.52	5,070.74	4,928.44	142.30	35.634		
16,500.00	13,108.00	19,177.00	10,930.61	63.53	127.47	-54.812	-547.70	2,836.52	5,137.97	4,996.30	141.67	36.268		
16,600.00	13,108.00	19,177.00	10,930.61	64.83	127.47	-54.812	-547.70	2,836.52	5,206.25	5,065.22	141.03	36.916		
16,700.00	13,108.00	19,177.00	10,930.61	66.13	127.47	-54.812	-547.70	2,836.52	5,275.54	5,135.15	140.39	37.577		
16,800.00	13,108.00	19,177.00	10,930.61	67.45	127.47	-54.812	-547.70	2,836.52	5,345.81	5,206.05	139.76	38.251		
16,900.00	13,108.00	19,177.00	10,930.61	68.77	127.47	-54.812	-547.70	2,836.52	5,417.01	5,277.89	139.12	38.938		
17,000.00	13,108.00	19,177.00	10,930.61	70.10	127.47	-54.812	-547.70	2,836.52	5,489.11	5,350.63	138.48	39.637		
17,100.00	13,108.00	19,177.00	10,930.61	71.43	127.47	-54.812	-547.70	2,836.52	5,562.07	5,424.22	137.85	40.348		
17,200.00	13,108.00	19,177.00	10,930.61	72.77	127.47	-54.812	-547.70	2,836.52	5,635.86	5,498.64	137.22	41.070		
17,300.00	13,108.00	19,177.00	10,930.61	74.11	127.47	-54.812	-547.70	2,836.52	5,710.46	5,573.85	136.60	41.804		
17,400.00	13,108.00	19,177.00	10,930.61	75.46	127.47	-54.812	-547.70	2,836.52	5,785.81	5,649.83	135.98	42.548		
17,500.00	13,108.00	19,177.00	10,930.61	76.81	127.47	-54.812	-547.70	2,836.52	5,861.91	5,726.53	135.37	43.302		
17,600.00	13,108.00	19,177.00	10,930.61	78.17	127.47	-54.812	-547.70	2,836.52	5,938.71	5,803.94	134.77	44.066		
17,700.00	13,108.00	19,177.00	10,930.61	79.53	127.47	-54.812	-547.70	2,836.52	6,016.19	5,882.02	134.17	44.840		
17,800.00	13,108.00	19,177.00	10,930.61	80.89	127.47	-54.812	-547.70	2,836.52	6,094.34	5,960.76	133.58	45.623		
17,900.00	13,108.00	19,177.00	10,930.61	82.26	127.47	-54.812	-547.70	2,836.52	6,173.11	6,040.11	133.00	46.415		
18,000.00	13,108.00	19,177.00	10,930.61	83.63	127.47	-54.812	-547.70	2,836.52	6,252.49	6,120.06	132.42	47.216		
18,100.00	13,108.00	19,177.00	10,930.61	85.00	127.47	-54.812	-547.70	2,836.52	6,332.45	6,200.59	131.86	48.024		
18,200.00	13,108.00	19,177.00	10,930.61	86.38	127.47	-54.812	-547.70	2,836.52	6,412.97	6,281.67	131.30	48.841		
18,300.00	13,108.00	19,177.00	10,930.61	87.76	127.47	-54.812	-547.70	2,836.52	6,494.04	6,363.28	130.76	49.666		
18,400.00	13,108.00	19,177.00	10,930.61	89.14	127.47	-54.812	-547.70	2,836.52	6,575.63	6,445.41	130.22	50.498		
18,500.00	13,108.00	19,177.00	10,930.61	90.52	127.47	-54.812	-547.70	2,836.52	6,657.72	6,528.03	129.69	51.336		
18,600.00	13,108.00	19,177.00	10,930.61	91.90	127.47	-54.812	-547.70	2,836.52	6,740.29	6,611.12	129.17	52.182		
18,700.00	13,108.00	19,177.00	10,930.61	93.29	127.47	-54.812	-547.70	2,836.52	6,823.33	6,694.67	128.66	53.035		
18,800.00	13,108.00	19,177.00	10,930.61	94.68	127.47	-54.812	-547.70	2,836.52	6,906.82	6,778.66	128.16	53.893		
18,900.00	13,108.00	19,177.00	10,930.61	96.06	127.47	-54.812	-547.70	2,836.52	6,990.74	6,863.08	127.67	54.758		

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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:			Distance		Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
19,000.00	13,108.00	19,177.00	10,930.61	97.46	127.47	-54.812	-547.70	2,836.52	7,075.09	6,947.90	127.19	55.628				
19,100.00	13,108.00	19,177.00	10,930.61	98.85	127.47	-54.812	-547.70	2,836.52	7,159.83	7,033.12	126.71	56.504				
19,200.00	13,108.00	19,177.00	10,930.61	100.24	127.47	-54.812	-547.70	2,836.52	7,244.96	7,118.71	126.25	57.385				
19,300.00	13,108.00	19,177.00	10,930.61	101.64	127.47	-54.812	-547.70	2,836.52	7,330.47	7,204.67	125.80	58.271				
19,400.00	13,108.00	19,177.00	10,930.61	103.03	127.47	-54.812	-547.70	2,836.52	7,416.34	7,290.99	125.36	59.162				
19,500.00	13,108.00	19,177.00	10,930.61	104.43	127.47	-54.812	-547.70	2,836.52	7,502.56	7,377.64	124.92	60.058				
19,600.00	13,108.00	19,177.00	10,930.61	105.83	127.47	-54.812	-547.70	2,836.52	7,589.12	7,464.63	124.50	60.958				
19,700.00	13,108.00	19,177.00	10,930.61	107.23	127.47	-54.812	-547.70	2,836.52	7,676.01	7,551.93	124.08	61.862				
19,800.00	13,108.00	19,177.00	10,930.61	108.63	127.47	-54.812	-547.70	2,836.52	7,763.21	7,639.53	123.68	62.771				
19,900.00	13,108.00	19,177.00	10,930.61	110.03	127.47	-54.812	-547.70	2,836.52	7,850.72	7,727.44	123.28	63.683				
20,000.00	13,108.00	19,177.00	10,930.61	111.43	127.47	-54.812	-547.70	2,836.52	7,938.52	7,815.63	122.89	64.598				
20,100.00	13,108.00	19,177.00	10,930.61	112.84	127.47	-54.812	-547.70	2,836.52	8,026.61	7,904.09	122.51	65.517				
20,200.00	13,108.00	19,177.00	10,930.61	114.24	127.47	-54.812	-547.70	2,836.52	8,114.97	7,992.83	122.14	66.440				
20,300.00	13,108.00	19,177.00	10,930.61	115.65	127.47	-54.812	-547.70	2,836.52	8,203.60	8,081.82	121.78	67.365				
20,400.00	13,108.00	19,177.00	10,930.61	117.05	127.47	-54.812	-547.70	2,836.52	8,292.49	8,171.06	121.43	68.293				
20,500.00	13,108.00	19,177.00	10,930.61	118.46	127.47	-54.812	-547.70	2,836.52	8,381.63	8,260.55	121.08	69.224				
20,600.00	13,108.00	19,177.00	10,930.61	119.87	127.47	-54.812	-547.70	2,836.52	8,471.01	8,350.27	120.74	70.157				
20,700.00	13,108.00	19,177.00	10,930.61	121.28	127.47	-54.812	-547.70	2,836.52	8,560.63	8,440.21	120.41	71.093				
20,800.00	13,108.00	19,177.00	10,930.61	122.68	127.47	-54.812	-547.70	2,836.52	8,650.47	8,530.38	120.09	72.031				
20,900.00	13,108.00	19,177.00	10,930.61	124.09	127.47	-54.812	-547.70	2,836.52	8,740.54	8,620.76	119.78	72.971				
21,000.00	13,108.00	19,177.00	10,930.61	125.51	127.47	-54.812	-547.70	2,836.52	8,830.82	8,711.34	119.48	73.913				
21,100.00	13,108.00	19,177.00	10,930.61	126.92	127.47	-54.812	-547.70	2,836.52	8,921.30	8,802.13	119.18	74.857				
21,200.00	13,108.00	19,177.00	10,930.61	128.33	127.47	-54.812	-547.70	2,836.52	9,011.99	8,893.10	118.89	75.802				
21,300.00	13,108.00	19,177.00	10,930.61	129.74	127.47	-54.812	-547.70	2,836.52	9,102.87	8,984.27	118.61	76.749				
21,400.00	13,108.00	19,177.00	10,930.61	131.15	127.47	-54.812	-547.70	2,836.52	9,193.95	9,075.62	118.33	77.697				
21,500.00	13,108.00	19,177.00	10,930.61	132.57	127.47	-54.812	-547.70	2,836.52	9,285.20	9,167.14	118.06	78.647				
21,600.00	13,108.00	19,177.00	10,930.61	133.98	127.47	-54.812	-547.70	2,836.52	9,376.64	9,258.83	117.80	79.598				
21,700.00	13,108.00	19,177.00	10,930.61	135.39	127.47	-54.812	-547.70	2,836.52	9,468.24	9,350.70	117.55	80.549				
21,800.00	13,108.00	19,177.00	10,930.61	136.81	127.47	-54.812	-547.70	2,836.52	9,560.02	9,442.72	117.30	81.502				
21,900.00	13,108.00	19,177.00	10,930.61	138.22	127.47	-54.812	-547.70	2,836.52	9,651.96	9,534.90	117.06	82.455				
22,000.00	13,108.00	19,177.00	10,930.61	139.64	127.47	-54.812	-547.70	2,836.52	9,744.05	9,627.23	116.82	83.409				
22,100.00	13,108.00	19,177.00	10,930.61	141.06	127.47	-54.812	-547.70	2,836.52	9,836.31	9,719.71	116.60	84.363				
22,200.00	13,108.00	19,177.00	10,930.61	142.47	127.47	-54.812	-547.70	2,836.52	9,928.71	9,812.33	116.37	85.318				
22,300.00	13,108.00	19,177.00	10,930.61	143.89	127.47	-54.812	-547.70	2,836.52	10,021.26	9,905.10	116.16	86.273				
22,400.00	13,108.00	19,177.00	10,930.61	145.31	127.47	-54.812	-547.70	2,836.52	10,113.95	9,998.00	115.95	87.228				
22,500.00	13,108.00	19,177.00	10,930.61	146.72	127.47	-54.812	-547.70	2,836.52	10,206.77	10,091.03	115.74	88.183				
22,600.00	13,108.00	19,177.00	10,930.61	148.14	127.47	-54.812	-547.70	2,836.52	10,299.74	10,184.19	115.55	89.139				
22,700.00	13,108.00	19,177.00	10,930.61	149.56	127.47	-54.812	-547.70	2,836.52	10,392.83	10,277.47	115.36	90.094				
22,800.00	13,108.00	19,177.00	10,930.61	150.98	127.47	-54.812	-547.70	2,836.52	10,486.05	10,370.88	115.17	91.049				
22,900.00	13,108.00	19,177.00	10,930.61	152.40	127.47	-54.812	-547.70	2,836.52	10,579.39	10,464.40	114.99	92.004				
23,000.00	13,108.00	19,177.00	10,930.61	153.82	127.47	-54.812	-547.70	2,836.52	10,672.86	10,558.04	114.81	92.959				
23,100.00	13,108.00	19,177.00	10,930.61	155.24	127.47	-54.812	-547.70	2,836.52	10,766.44	10,651.79	114.64	93.913				
23,200.00	13,108.00	19,177.00	10,930.61	156.66	127.47	-54.812	-547.70	2,836.52	10,860.13	10,745.66	114.48	94.866				
23,247.14	13,108.00	19,177.00	10,930.61	157.33	127.47	-54.812	-547.70	2,836.52	10,904.34	10,789.93	114.40	95.316				

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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		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	66.22	13.22	1.00	1.01	8.498	7,916.68	1,182.88	8,004.58				
100.00	100.00	191.16	138.16	1.08	1.04	8.494	7,916.36	1,182.33	8,004.26	8,002.13	2.13	3,763.835	
200.00	200.00	284.96	231.96	1.60	1.19	8.490	7,916.05	1,181.63	8,003.82	8,001.04	2.78	2,874.617	
300.00	300.00	378.45	325.44	2.01	1.39	8.484	7,915.84	1,180.81	8,003.46	8,000.06	3.40	2,351.102	
400.00	400.00	470.50	417.49	2.35	1.64	8.479	7,915.71	1,180.00	8,003.19	7,999.20	3.99	2,003.798	
500.00	500.00	567.23	514.21	2.65	1.93	8.473	7,915.65	1,179.18	8,003.01	7,998.43	4.58	1,746.678	
600.00	600.00	669.38	616.36	2.93	2.25	8.467	7,915.59	1,178.29	8,002.82	7,997.64	5.18	1,546.245	
700.00	700.00	766.70	713.68	3.18	2.57	8.460	7,915.52	1,177.40	8,002.62	7,996.88	5.74	1,393.156	
800.00	800.00	861.94	808.91	3.41	2.88	8.454	7,915.53	1,176.46	8,002.48	7,996.19	6.30	1,270.917	
900.00	900.00	963.54	910.51	3.64	3.23	8.446	7,915.57	1,175.42	8,002.37	7,995.51	6.86	1,166.132	
1,000.00	1,000.00	1,066.95	1,013.91	3.85	3.58	8.439	7,915.57	1,174.35	8,002.22	7,994.79	7.43	1,077.418	
1,100.00	1,100.00	1,155.58	1,102.53	4.05	3.89	8.432	7,915.66	1,173.35	8,002.15	7,994.22	7.93	1,008.526	
1,200.00	1,200.00	1,255.12	1,202.06	4.24	4.23	8.421	7,915.82	1,171.93	8,002.10	7,993.63	8.47	944.735	
1,212.33	1,212.33	1,265.38	1,212.33	4.26	4.27	8.420	7,915.83	1,171.80	8,002.09	7,993.57	8.53	938.418	
1,300.00	1,300.00	1,338.40	1,285.34	4.43	4.51	8.417	7,915.97	1,171.35	8,002.18	7,993.24	8.93	895.763	
1,400.00	1,400.00	1,425.00	1,371.94	4.61	4.80	8.420	7,916.16	1,171.80	8,002.46	7,993.06	9.40	851.113	
1,500.00	1,500.00	1,483.72	1,430.65	4.78	4.99	8.425	7,916.42	1,172.54	8,003.09	7,993.32	9.77	819.334	
1,600.00	1,599.98	1,544.83	1,491.76	4.99	5.19	158.223	7,916.98	1,173.43	8,005.82	7,995.67	10.15	788.890	
1,638.42	1,638.36	1,568.28	1,515.20	5.04	5.26	158.213	7,917.26	1,173.81	8,007.86	7,997.58	10.27	779.457	
1,700.00	1,699.87	1,614.00	1,560.91	5.10	5.41	158.224	7,917.94	1,174.61	8,011.66	8,001.18	10.48	764.400	
1,800.00	1,799.76	1,690.62	1,637.50	5.26	5.67	158.242	7,919.25	1,176.01	8,018.09	8,007.20	10.89	736.511	
1,900.00	1,899.64	1,779.06	1,725.92	5.44	5.96	158.263	7,920.88	1,177.66	8,024.67	8,013.31	11.36	706.511	
2,000.00	1,999.52	1,803.00	1,749.85	5.64	6.04	158.269	7,921.34	1,178.11	8,031.68	8,020.05	11.62	690.928	
2,100.00	2,099.41	1,884.73	1,831.53	5.84	6.32	158.291	7,923.33	1,180.06	8,039.01	8,026.91	12.10	664.369	
2,200.00	2,199.29	1,931.90	1,878.65	6.07	6.48	158.306	7,924.85	1,181.56	8,047.15	8,034.68	12.47	645.464	
2,300.00	2,299.17	1,993.00	1,939.66	6.30	6.69	158.328	7,927.22	1,183.93	8,055.97	8,043.08	12.89	624.934	
2,400.00	2,399.06	2,063.32	2,009.84	6.54	6.93	158.356	7,930.18	1,187.00	8,065.22	8,051.87	13.36	603.837	
2,500.00	2,498.94	2,163.41	2,109.74	6.79	7.28	158.397	7,934.35	1,191.70	8,074.53	8,060.59	13.93	579.482	
2,600.00	2,598.82	2,248.17	2,194.31	7.04	7.57	158.434	7,937.88	1,195.99	8,083.90	8,069.44	14.47	558.806	
2,700.00	2,698.71	2,329.37	2,275.32	7.31	7.85	158.472	7,941.40	1,200.40	8,093.50	8,078.51	14.99	539.830	
2,800.00	2,798.59	2,409.72	2,355.46	7.58	8.13	158.510	7,945.03	1,205.06	8,103.33	8,087.81	15.52	522.035	
2,900.00	2,898.47	2,489.20	2,434.70	7.85	8.41	158.550	7,948.77	1,209.87	8,113.41	8,097.36	16.06	505.341	
3,000.00	2,998.36	2,575.83	2,521.05	8.13	8.72	158.595	7,953.04	1,215.34	8,123.73	8,107.11	16.62	488.832	
3,100.00	3,098.24	2,730.53	2,675.25	8.41	9.27	158.679	7,960.07	1,225.69	8,133.75	8,116.32	17.44	466.511	
3,200.00	3,198.12	2,894.93	2,839.16	8.70	9.86	158.770	7,965.99	1,236.81	8,142.75	8,124.46	18.29	445.131	
3,300.00	3,298.01	2,972.90	2,916.93	8.99	10.13	158.809	7,968.82	1,241.51	8,151.79	8,132.95	18.84	432.681	
3,400.00	3,397.89	3,056.32	3,000.17	9.28	10.43	158.847	7,972.16	1,246.00	8,161.08	8,141.67	19.41	420.457	
3,500.00	3,497.77	3,158.13	3,101.81	9.58	10.80	158.881	7,976.57	1,249.76	8,170.44	8,150.39	20.05	407.519	
3,600.00	3,597.66	3,223.00	3,166.60	9.88	11.03	158.894	7,979.54	1,251.01	8,179.85	8,159.29	20.56	397.936	
3,700.00	3,697.54	3,309.80	3,253.28	10.18	11.34	158.908	7,983.85	1,252.22	8,189.50	8,168.36	21.14	387.320	
3,800.00	3,797.42	3,350.53	3,493.69	10.49	12.20	158.953	7,995.30	1,256.29	8,199.53	8,177.23	22.30	367.737	
3,900.00	3,897.31	3,613.11	3,556.22	10.79	12.42	158.966	7,997.61	1,257.42	8,207.96	8,185.16	22.80	359.953	
4,000.00	3,997.19	3,979.13	3,922.06	11.10	13.72	159.027	8,006.38	1,261.24	8,215.00	8,190.59	24.40	336.625	
4,100.00	4,097.07	4,073.00	4,015.93	11.41	14.05	159.038	8,007.44	1,261.31	8,220.62	8,195.59	25.03	328.486	
4,200.00	4,196.96	4,142.85	4,085.77	11.72	14.29	159.045	8,008.37	1,261.38	8,226.41	8,200.85	25.56	321.797	
4,300.00	4,296.84	4,239.70	4,182.61	12.03	14.64	159.055	8,009.73	1,261.31	8,232.29	8,206.09	26.20	314.208	
4,400.00	4,396.72	4,327.77	4,270.67	12.35	14.95	159.063	8,011.05	1,261.12	8,238.25	8,211.44	26.81	307.329	
4,500.00	4,496.61	20,630.00	12,553.55	12.66	125.62	-128.749	-190.41	1,511.25	8,211.15	8,132.17	78.98	103.960	
4,600.00	4,596.49	20,630.00	12,553.55	12.98	125.62	-128.749	-190.41	1,511.25	8,113.61	8,034.39	79.22	102.417	
4,700.00	4,696.37	20,630.00	12,553.55	13.29	125.62	-128.749	-190.41	1,511.25	8,016.12	7,936.66	79.46	100.876	
4,800.00	4,796.26	20,630.00	12,553.55	13.61	125.62	-128.749	-190.41	1,511.25	7,918.70	7,838.99	79.71	99.339	
4,900.00	4,896.14	20,630.00	12,553.55	13.93	125.62	-128.749	-190.41	1,511.25	7,821.35	7,741.38	79.97	97.805	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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+H2GM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Offset												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,996.02	20,630.00	12,553.55	14.25	125.62	-128.749	-190.41	1,511.25	7,724.06	7,643.83	80.23	96.275	
5,100.00	5,095.91	20,630.00	12,553.55	14.57	125.62	-128.749	-190.41	1,511.25	7,626.84	7,546.34	80.50	94.748	
5,200.00	5,195.79	20,630.00	12,553.55	14.89	125.62	-128.749	-190.41	1,511.25	7,529.69	7,448.93	80.77	93.224	
5,300.00	5,295.67	20,630.00	12,553.55	15.21	125.62	-128.749	-190.41	1,511.25	7,432.63	7,351.58	81.05	91.705	
5,400.00	5,395.56	20,630.00	12,553.55	15.54	125.62	-128.749	-190.41	1,511.25	7,335.63	7,254.30	81.34	90.190	
5,500.00	5,495.44	20,661.12	12,553.12	15.86	126.04	-127.766	-221.52	1,511.49	7,238.54	7,156.67	81.87	88.414	
5,600.00	5,595.32	20,662.27	12,553.11	16.19	126.05	-127.729	-222.67	1,511.50	7,141.70	7,059.52	82.18	86.903	
5,700.00	5,695.21	20,663.43	12,553.10	16.51	126.07	-127.692	-223.84	1,511.51	7,044.95	6,962.45	82.50	85.397	
5,800.00	5,795.09	20,664.62	12,553.08	16.83	126.09	-127.655	-225.02	1,511.52	6,948.29	6,865.47	82.82	83.895	
5,900.00	5,894.97	20,665.83	12,553.07	17.16	126.10	-127.616	-226.23	1,511.53	6,851.73	6,768.57	83.15	82.398	
6,000.00	5,994.86	20,667.07	12,553.06	17.49	126.12	-127.577	-227.47	1,511.54	6,755.26	6,671.77	83.49	80.907	
6,100.00	6,094.74	20,668.32	12,553.05	17.81	126.14	-127.537	-228.72	1,511.55	6,658.90	6,575.06	83.84	79.420	
6,200.00	6,194.62	20,669.60	12,553.04	18.14	126.15	-127.497	-230.00	1,511.56	6,562.65	6,478.44	84.20	77.939	
6,300.00	6,294.51	20,670.91	12,553.03	18.47	126.17	-127.455	-231.31	1,511.57	6,466.51	6,381.94	84.57	76.464	
6,400.00	6,394.39	20,672.23	12,553.02	18.79	126.19	-127.413	-232.64	1,511.58	6,370.48	6,285.54	84.95	74.994	
6,500.00	6,494.27	20,673.59	12,553.01	19.12	126.21	-127.370	-233.99	1,511.60	6,274.59	6,189.25	85.33	73.530	
6,600.00	6,594.16	20,674.97	12,553.00	19.45	126.22	-127.326	-235.37	1,511.61	6,178.82	6,093.09	85.73	72.072	
6,700.00	6,694.04	20,676.38	12,552.99	19.78	126.24	-127.282	-236.78	1,511.62	6,083.18	5,997.04	86.14	70.620	
6,800.00	6,793.92	20,677.81	12,552.99	20.11	126.26	-127.236	-238.21	1,511.63	5,987.69	5,901.13	86.56	69.175	
6,900.00	6,893.81	20,679.28	12,552.98	20.44	126.28	-127.190	-239.68	1,511.65	5,892.35	5,805.36	86.99	67.735	
7,000.00	6,993.69	20,680.77	12,552.97	20.77	126.30	-127.142	-241.17	1,511.66	5,797.16	5,709.73	87.43	66.303	
7,100.00	7,093.57	20,682.30	12,552.96	21.10	126.32	-127.094	-242.70	1,511.67	5,702.14	5,614.25	87.89	64.877	
7,200.00	7,193.46	20,683.85	12,552.95	21.43	126.34	-127.044	-244.25	1,511.69	5,607.29	5,518.93	88.36	63.459	
7,300.00	7,293.34	20,685.44	12,552.95	21.76	126.37	-126.994	-245.84	1,511.70	5,512.62	5,423.77	88.85	62.047	
7,400.00	7,393.22	20,687.07	12,552.94	22.09	126.39	-126.942	-247.47	1,511.71	5,418.14	5,328.79	89.34	60.643	
7,500.00	7,493.11	20,688.72	12,552.94	22.42	126.41	-126.889	-249.12	1,511.73	5,323.86	5,234.00	89.86	59.247	
7,600.00	7,592.99	20,690.42	12,552.93	22.75	126.43	-126.836	-250.82	1,511.74	5,229.79	5,139.40	90.39	57.858	
7,700.00	7,692.87	20,692.15	12,552.93	23.08	126.46	-126.781	-252.55	1,511.76	5,135.95	5,045.01	90.94	56.477	
7,800.00	7,792.76	20,693.91	12,552.92	23.41	126.48	-126.724	-254.31	1,511.78	5,042.34	4,950.83	91.50	55.105	
7,900.00	7,892.64	20,695.72	12,552.92	23.74	126.50	-126.667	-256.12	1,511.79	4,948.97	4,856.88	92.09	53.741	
8,000.00	7,992.52	20,697.57	12,552.92	24.07	126.53	-126.608	-257.97	1,511.81	4,855.88	4,763.18	92.69	52.386	
8,100.00	8,092.41	20,724.00	12,552.97	24.40	126.88	-125.766	-284.40	1,512.06	4,763.19	4,669.68	93.51	50.939	
8,200.00	8,192.29	20,724.00	12,552.97	24.74	126.88	-125.766	-284.40	1,512.06	4,670.65	4,576.50	94.14	49.614	
8,300.00	8,292.17	20,724.00	12,552.97	25.07	126.88	-125.766	-284.40	1,512.06	4,578.41	4,483.62	94.80	48.297	
8,400.00	8,392.06	20,724.00	12,552.97	25.40	126.88	-125.766	-284.40	1,512.06	4,486.51	4,391.04	95.48	46.990	
8,500.00	8,491.94	20,724.00	12,552.97	25.73	126.88	-125.766	-284.40	1,512.06	4,394.97	4,298.78	96.18	45.693	
8,600.00	8,591.82	20,724.00	12,552.97	26.07	126.88	-125.766	-284.40	1,512.06	4,303.80	4,206.88	96.92	44.406	
8,700.00	8,691.71	20,724.00	12,552.97	26.40	126.88	-125.766	-284.40	1,512.06	4,213.03	4,115.35	97.68	43.130	
8,800.00	8,791.59	20,724.00	12,552.97	26.73	126.88	-125.766	-284.40	1,512.06	4,122.69	4,024.22	98.48	41.865	
8,900.00	8,891.47	20,724.00	12,552.97	27.06	126.88	-125.766	-284.40	1,512.06	4,032.81	3,933.50	99.30	40.611	
9,000.00	8,991.36	20,724.00	12,552.97	27.40	126.88	-125.766	-284.40	1,512.06	3,943.41	3,843.25	100.16	39.370	
9,100.00	9,091.24	20,724.00	12,552.97	27.73	126.88	-125.766	-284.40	1,512.06	3,854.53	3,753.47	101.06	38.141	
9,200.00	9,191.12	20,724.00	12,552.97	28.06	126.88	-125.766	-284.40	1,512.06	3,766.21	3,664.22	102.00	36.925	
9,300.00	9,291.01	20,728.02	12,553.00	28.40	126.94	-125.638	-288.41	1,512.10	3,678.49	3,575.49	103.00	35.712	
9,400.00	9,390.89	20,732.90	12,553.02	28.73	127.00	-125.482	-293.30	1,512.16	3,591.40	3,487.34	104.06	34.513	
9,500.00	9,490.77	20,737.69	12,553.04	29.06	127.07	-125.329	-298.09	1,512.21	3,505.00	3,399.84	105.16	33.330	
9,600.00	9,590.66	20,742.37	12,553.06	29.40	127.13	-125.179	-302.77	1,512.27	3,419.33	3,313.02	106.31	32.164	
9,700.00	9,690.54	20,746.96	12,553.07	29.73	127.19	-125.032	-307.35	1,512.33	3,334.45	3,226.95	107.51	31.016	
9,800.00	9,790.42	20,751.45	12,553.09	30.06	127.25	-124.889	-311.85	1,512.39	3,250.43	3,141.67	108.76	29.887	
9,900.00	9,890.31	20,755.85	12,553.10	30.40	127.31	-124.748	-316.25	1,512.46	3,167.33	3,057.27	110.06	28.778	
10,000.00	9,990.19	20,760.16	12,553.11	30.73	127.37	-124.610	-320.56	1,512.52	3,085.22	2,973.80	111.43	27.689	
10,100.00	10,090.07	20,764.39	12,553.11	31.07	127.43	-124.474	-324.78	1,512.59	3,004.20	2,891.35	112.85	26.621	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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			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	
10,200.00	10,189.96	20,768.53	12,553.12	31.40	127.48	-124.342	-328.92	1,512.66	2,924.34	2,810.01	114.34	25.577	
10,300.00	10,289.84	20,772.59	12,553.12	31.74	127.54	-124.212	-332.98	1,512.73	2,845.75	2,729.86	115.89	24.556	
10,400.00	10,389.72	20,776.57	12,553.12	32.07	127.59	-124.084	-336.97	1,512.80	2,768.54	2,651.03	117.50	23.561	
10,500.00	10,489.60	20,780.48	12,553.12	32.40	127.65	-123.959	-340.87	1,512.87	2,692.82	2,573.63	119.19	22.593	
10,600.00	10,589.49	20,784.31	12,553.12	32.74	127.70	-123.836	-344.70	1,512.94	2,618.72	2,497.78	120.94	21.653	
10,700.00	10,689.37	20,788.07	12,553.12	33.07	127.75	-123.715	-348.46	1,513.02	2,546.39	2,423.63	122.76	20.743	
10,800.00	10,789.25	20,791.76	12,553.11	33.41	127.80	-123.597	-352.15	1,513.09	2,475.98	2,351.33	124.64	19.864	
10,900.00	10,889.14	20,795.38	12,553.11	33.74	127.85	-123.481	-355.77	1,513.16	2,407.65	2,281.06	126.59	19.019	
11,000.00	10,989.02	20,798.93	12,553.10	34.08	127.89	-123.367	-359.32	1,513.24	2,341.60	2,213.01	128.59	18.209	
11,100.00	11,088.90	20,802.42	12,553.10	34.41	127.94	-123.255	-362.81	1,513.32	2,278.03	2,147.38	130.65	17.437	
11,200.00	11,188.79	20,805.85	12,553.09	34.75	127.99	-123.145	-366.24	1,513.39	2,217.13	2,084.39	132.74	16.703	
11,300.00	11,288.67	20,809.21	12,553.08	35.08	128.03	-123.037	-369.60	1,513.47	2,159.14	2,024.28	134.86	16.011	
11,400.00	11,388.55	20,818.00	12,553.05	35.42	128.15	-122.754	-378.38	1,513.68	2,104.31	1,967.30	137.01	15.359	
11,500.00	11,488.44	20,818.00	12,553.05	35.75	128.15	-122.754	-378.38	1,513.68	2,052.87	1,913.76	139.12	14.757	
11,600.00	11,588.32	20,818.00	12,553.05	36.09	128.15	-122.754	-378.38	1,513.68	2,005.10	1,863.91	141.19	14.201	
11,700.00	11,688.20	20,818.00	12,553.05	36.42	128.15	-122.754	-378.38	1,513.68	1,961.27	1,818.06	143.22	13.695	
11,800.00	11,788.09	20,818.00	12,553.05	36.76	128.15	-122.754	-378.38	1,513.68	1,921.65	1,776.50	145.15	13.239	
11,900.00	11,887.97	20,818.00	12,553.05	37.09	128.15	-122.754	-378.38	1,513.68	1,886.50	1,739.52	146.98	12.835	
11,908.72	11,896.68	20,818.00	12,553.05	37.12	128.15	-122.754	-378.38	1,513.68	1,883.66	1,736.52	147.14	12.802	
12,000.00	11,987.91	20,818.00	12,553.05	37.41	128.15	-122.252	-378.38	1,513.68	1,855.33	1,706.70	148.64	12.482	
12,047.14	12,035.04	20,818.00	12,553.05	37.47	128.15	88.180	-378.38	1,513.68	1,841.72	1,692.43	149.29	12.336	
12,100.00	12,087.91	20,818.00	12,553.05	37.47	128.15	88.180	-378.38	1,513.68	1,827.56	1,677.62	149.93	12.189	
12,200.00	12,187.91	20,818.00	12,553.05	37.48	128.15	88.180	-378.38	1,513.68	1,804.70	1,653.71	150.99	11.952	
12,300.00	12,287.91	20,818.00	12,553.05	37.48	128.15	88.180	-378.38	1,513.68	1,787.15	1,635.34	151.82	11.772	
12,400.00	12,387.91	20,818.00	12,553.05	37.49	128.15	88.180	-378.38	1,513.68	1,775.07	1,622.68	152.39	11.648	
12,500.00	12,487.91	20,818.00	12,553.05	37.50	128.15	88.180	-378.38	1,513.68	1,768.57	1,615.87	152.70	11.582	
12,547.14	12,535.04	20,818.00	12,553.05	37.49	128.15	88.180	-378.38	1,513.68	1,767.46	1,614.71	152.75	11.571	
12,550.00	12,537.91	20,818.00	12,553.05	37.50	128.15	-91.248	-378.38	1,513.68	1,767.44	1,614.69	152.75	11.571	
12,564.02	12,551.92	20,818.00	12,553.05	37.54	128.15	-91.254	-378.38	1,513.68	1,767.38	1,614.61	152.76	11.569 CC, ES	
12,600.00	12,587.83	20,829.78	12,553.01	37.64	128.31	-90.834	-390.16	1,513.98	1,767.72	1,614.91	152.81	11.568 SF	
12,650.00	12,637.36	20,834.95	12,553.00	37.90	128.38	-90.490	-395.33	1,514.12	1,769.50	1,616.63	152.87	11.575	
12,700.00	12,686.10	20,843.53	12,553.00	38.17	128.50	-89.899	-403.91	1,514.36	1,772.69	1,619.76	152.94	11.591	
12,750.00	12,733.70	20,855.51	12,553.01	38.46	128.66	-89.077	-415.88	1,514.71	1,777.20	1,624.18	153.02	11.614	
12,800.00	12,779.78	20,870.84	12,553.06	38.75	128.87	-88.048	-431.20	1,515.21	1,782.89	1,629.76	153.13	11.643	
12,850.00	12,824.00	20,889.45	12,553.16	39.03	129.12	-86.841	-449.80	1,515.86	1,789.61	1,636.35	153.26	11.677	
12,900.00	12,866.02	20,912.00	12,553.35	39.31	129.43	-85.473	-472.33	1,516.73	1,797.17	1,643.74	153.43	11.714	
12,950.00	12,905.52	20,942.06	12,553.66	39.57	129.84	-83.900	-502.36	1,517.94	1,805.31	1,651.67	153.64	11.750	
13,000.00	12,942.21	20,976.37	12,554.01	39.82	130.30	-82.259	-536.64	1,519.33	1,813.75	1,659.84	153.91	11.784	
13,050.00	12,975.79	20,991.00	12,554.16	40.06	130.50	-81.077	-551.26	1,519.93	1,822.39	1,668.20	154.18	11.820	
13,100.00	13,006.02	20,991.00	12,554.16	40.27	130.50	-80.150	-551.26	1,519.93	1,831.62	1,677.20	154.42	11.861	
13,150.00	13,032.66	20,991.00	12,554.16	40.46	130.50	-79.165	-551.26	1,519.93	1,841.44	1,686.78	154.66	11.906	
13,200.00	13,055.52	20,991.00	12,554.16	40.63	130.50	-78.131	-551.26	1,519.93	1,851.76	1,696.87	154.89	11.955	
13,250.00	13,074.42	20,991.00	12,554.16	40.77	130.50	-77.059	-551.26	1,519.93	1,862.49	1,707.38	155.11	12.008	
13,300.00	13,089.21	20,991.00	12,554.16	40.89	130.50	-75.956	-551.26	1,519.93	1,873.54	1,718.24	155.30	12.064	
13,350.00	13,099.79	20,991.00	12,554.16	40.99	130.50	-74.835	-551.26	1,519.93	1,884.83	1,729.35	155.49	12.122	
13,400.00	13,106.06	20,991.00	12,554.16	41.06	130.50	-73.704	-551.26	1,519.93	1,896.27	1,740.62	155.65	12.183	
13,447.14	13,108.00	20,991.00	12,554.16	41.11	130.50	-72.639	-551.26	1,519.93	1,907.10	1,751.33	155.78	12.243	
13,500.00	13,108.00	20,991.00	12,554.16	41.15	130.50	-72.639	-551.26	1,519.93	1,919.95	1,764.09	155.86	12.318	
13,600.00	13,108.00	20,991.00	12,554.16	41.25	130.50	-72.639	-551.26	1,519.93	1,947.94	1,792.14	155.80	12.503	
13,700.00	13,108.00	20,991.00	12,554.16	41.37	130.50	-72.639	-551.26	1,519.93	1,980.58	1,825.12	155.46	12.740	
13,800.00	13,108.00	20,991.00	12,554.16	41.51	130.50	-72.639	-551.26	1,519.93	2,017.66	1,862.79	154.88	13.028	
13,900.00	13,108.00	20,991.00	12,554.16	41.67	130.50	-72.639	-551.26	1,519.93	2,058.94	1,904.86	154.08	13.363	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,000.00	13,108.00	20,991.00	12,554.16	41.87	130.50	-72.639	-551.26	1,519.93	2,104.16	1,951.07	153.09	13.745	
14,100.00	13,108.00	20,991.00	12,554.16	42.10	130.50	-72.639	-551.26	1,519.93	2,153.08	2,001.13	151.95	14.170	
14,200.00	13,108.00	20,991.00	12,554.16	42.37	130.50	-72.639	-551.26	1,519.93	2,205.45	2,054.77	150.68	14.637	
14,300.00	13,108.00	20,991.00	12,554.16	42.69	130.50	-72.639	-551.26	1,519.93	2,261.03	2,111.72	149.31	15.143	
14,400.00	13,108.00	20,991.00	12,554.16	43.06	130.50	-72.639	-551.26	1,519.93	2,319.59	2,171.72	147.87	15.687	
14,500.00	13,108.00	20,991.00	12,554.16	43.48	130.50	-72.639	-551.26	1,519.93	2,380.92	2,234.54	146.38	16.266	
14,600.00	13,108.00	20,991.00	12,554.16	43.97	130.50	-72.639	-551.26	1,519.93	2,444.80	2,299.94	144.85	16.878	
14,700.00	13,108.00	20,991.00	12,554.16	44.53	130.50	-72.639	-551.26	1,519.93	2,511.03	2,367.72	143.32	17.521	
14,800.00	13,108.00	20,991.00	12,554.16	45.16	130.50	-72.639	-551.26	1,519.93	2,579.45	2,437.67	141.78	18.194	
14,900.00	13,108.00	20,991.00	12,554.16	45.87	130.50	-72.639	-551.26	1,519.93	2,649.87	2,509.62	140.25	18.894	
15,000.00	13,108.00	20,991.00	12,554.16	46.64	130.50	-72.639	-551.26	1,519.93	2,722.14	2,583.40	138.74	19.620	
15,100.00	13,108.00	20,991.00	12,554.16	47.49	130.50	-72.639	-551.26	1,519.93	2,796.12	2,658.86	137.26	20.371	
15,200.00	13,108.00	20,991.00	12,554.16	48.39	130.50	-72.639	-551.26	1,519.93	2,871.68	2,735.87	135.81	21.144	
15,300.00	13,108.00	20,991.00	12,554.16	49.36	130.50	-72.639	-551.26	1,519.93	2,948.70	2,814.29	134.41	21.939	
15,400.00	13,108.00	20,991.00	12,554.16	50.38	130.50	-72.639	-551.26	1,519.93	3,027.06	2,894.02	133.04	22.754	
15,500.00	13,108.00	20,991.00	12,554.16	51.44	130.50	-72.639	-551.26	1,519.93	3,106.66	2,974.95	131.71	23.587	
15,600.00	13,108.00	20,991.00	12,554.16	52.54	130.50	-72.639	-551.26	1,519.93	3,187.41	3,056.98	130.43	24.437	
15,700.00	13,108.00	20,991.00	12,554.16	53.67	130.50	-72.639	-551.26	1,519.93	3,269.23	3,140.03	129.20	25.304	
15,800.00	13,108.00	20,991.00	12,554.16	54.84	130.50	-72.639	-551.26	1,519.93	3,352.03	3,224.02	128.01	26.186	
15,900.00	13,108.00	20,991.00	12,554.16	56.02	130.50	-72.639	-551.26	1,519.93	3,435.75	3,308.89	126.86	27.082	
16,000.00	13,108.00	20,991.00	12,554.16	57.24	130.50	-72.639	-551.26	1,519.93	3,520.32	3,394.55	125.76	27.991	
16,100.00	13,108.00	20,991.00	12,554.16	58.47	130.50	-72.639	-551.26	1,519.93	3,605.67	3,480.96	124.71	28.912	
16,200.00	13,108.00	20,991.00	12,554.16	59.71	130.50	-72.639	-551.26	1,519.93	3,691.77	3,568.07	123.70	29.845	
16,300.00	13,108.00	20,991.00	12,554.16	60.97	130.50	-72.639	-551.26	1,519.93	3,778.55	3,655.82	122.73	30.788	
16,400.00	13,108.00	20,991.00	12,554.16	62.25	130.50	-72.639	-551.26	1,519.93	3,865.96	3,744.16	121.80	31.740	
16,500.00	13,108.00	20,991.00	12,554.16	63.53	130.50	-72.639	-551.26	1,519.93	3,953.98	3,833.06	120.91	32.701	
16,600.00	13,108.00	20,991.00	12,554.16	64.83	130.50	-72.639	-551.26	1,519.93	4,042.55	3,922.48	120.06	33.670	
16,700.00	13,108.00	20,991.00	12,554.16	66.13	130.50	-72.639	-551.26	1,519.93	4,131.64	4,012.39	119.25	34.647	
16,800.00	13,108.00	20,991.00	12,554.16	67.45	130.50	-72.639	-551.26	1,519.93	4,221.22	4,102.75	118.47	35.631	
16,900.00	13,108.00	20,991.00	12,554.16	68.77	130.50	-72.639	-551.26	1,519.93	4,311.26	4,193.53	117.73	36.621	
17,000.00	13,108.00	20,991.00	12,554.16	70.10	130.50	-72.639	-551.26	1,519.93	4,401.73	4,284.71	117.01	37.617	
17,100.00	13,108.00	20,991.00	12,554.16	71.43	130.50	-72.639	-551.26	1,519.93	4,492.60	4,376.27	116.33	38.618	
17,200.00	13,108.00	20,991.00	12,554.16	72.77	130.50	-72.639	-551.26	1,519.93	4,583.85	4,468.17	115.68	39.624	
17,300.00	13,108.00	20,991.00	12,554.16	74.11	130.50	-72.639	-551.26	1,519.93	4,675.47	4,560.40	115.06	40.635	
17,400.00	13,108.00	20,991.00	12,554.16	75.46	130.50	-72.639	-551.26	1,519.93	4,767.41	4,652.95	114.47	41.649	
17,500.00	13,108.00	20,991.00	12,554.16	76.81	130.50	-72.639	-551.26	1,519.93	4,859.68	4,745.78	113.90	42.667	
17,600.00	13,108.00	20,991.00	12,554.16	78.17	130.50	-72.639	-551.26	1,519.93	4,952.25	4,838.89	113.36	43.687	
17,700.00	13,108.00	20,991.00	12,554.16	79.53	130.50	-72.639	-551.26	1,519.93	5,045.10	4,932.26	112.84	44.711	
17,800.00	13,108.00	20,991.00	12,554.16	80.89	130.50	-72.639	-551.26	1,519.93	5,138.22	5,025.87	112.34	45.737	
17,900.00	13,108.00	20,991.00	12,554.16	82.26	130.50	-72.639	-551.26	1,519.93	5,231.59	5,119.72	111.87	46.765	
18,000.00	13,108.00	20,991.00	12,554.16	83.63	130.50	-72.639	-551.26	1,519.93	5,325.20	5,213.79	111.42	47.796	
18,100.00	13,108.00	20,991.00	12,554.16	85.00	130.50	-72.639	-551.26	1,519.93	5,419.04	5,308.06	110.98	48.827	
18,200.00	13,108.00	20,991.00	12,554.16	86.38	130.50	-72.639	-551.26	1,519.93	5,513.10	5,402.53	110.57	49.860	
18,300.00	13,108.00	20,991.00	12,554.16	87.76	130.50	-72.639	-551.26	1,519.93	5,607.37	5,497.19	110.18	50.894	
18,400.00	13,108.00	20,991.00	12,554.16	89.14	130.50	-72.639	-551.26	1,519.93	5,701.83	5,592.02	109.80	51.929	
18,500.00	13,108.00	20,991.00	12,554.16	90.52	130.50	-72.639	-551.26	1,519.93	5,796.47	5,687.03	109.44	52.964	
18,600.00	13,108.00	20,991.00	12,554.16	91.90	130.50	-72.639	-551.26	1,519.93	5,891.29	5,782.19	109.10	54.000	
18,700.00	13,108.00	20,991.00	12,554.16	93.29	130.50	-72.639	-551.26	1,519.93	5,986.28	5,877.51	108.77	55.036	
18,800.00	13,108.00	20,991.00	12,554.16	94.68	130.50	-72.639	-551.26	1,519.93	6,081.43	5,972.98	108.46	56.072	
18,900.00	13,108.00	20,991.00	12,554.16	96.06	130.50	-72.639	-551.26	1,519.93	6,176.74	6,068.58	108.16	57.107	
19,000.00	13,108.00	20,991.00	12,554.16	97.46	130.50	-72.639	-551.26	1,519.93	6,272.19	6,164.31	107.88	58.143	
19,100.00	13,108.00	20,991.00	12,554.16	98.85	130.50	-72.639	-551.26	1,519.93	6,367.78	6,260.17	107.60	59.178	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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:	
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)			
19,200.00	13,108.00	20,991.00	12,554.16	100.24	130.50	-72.639	-551.26	1,519.93	6,463.50	6,356.16	107.35	60.212	
19,300.00	13,108.00	20,991.00	12,554.16	101.64	130.50	-72.639	-551.26	1,519.93	6,559.35	6,452.25	107.10	61.245	
19,400.00	13,108.00	20,991.00	12,554.16	103.03	130.50	-72.639	-551.26	1,519.93	6,655.33	6,548.46	106.87	62.278	
19,500.00	13,108.00	20,991.00	12,554.16	104.43	130.50	-72.639	-551.26	1,519.93	6,751.42	6,644.78	106.64	63.309	
19,600.00	13,108.00	20,991.00	12,554.16	105.83	130.50	-72.639	-551.26	1,519.93	6,847.62	6,741.19	106.43	64.339	
19,700.00	13,108.00	20,991.00	12,554.16	107.23	130.50	-72.639	-551.26	1,519.93	6,943.93	6,837.70	106.23	65.368	
19,800.00	13,108.00	20,991.00	12,554.16	108.63	130.50	-72.639	-551.26	1,519.93	7,040.34	6,934.31	106.04	66.396	
19,900.00	13,108.00	20,991.00	12,554.16	110.03	130.50	-72.639	-551.26	1,519.93	7,136.85	7,031.00	105.85	67.422	
20,000.00	13,108.00	20,991.00	12,554.16	111.43	130.50	-72.639	-551.26	1,519.93	7,233.46	7,127.78	105.68	68.447	
20,100.00	13,108.00	20,991.00	12,554.16	112.84	130.50	-72.639	-551.26	1,519.93	7,330.16	7,224.64	105.52	69.469	
20,200.00	13,108.00	20,991.00	12,554.16	114.24	130.50	-72.639	-551.26	1,519.93	7,426.94	7,321.58	105.36	70.491	
20,300.00	13,108.00	20,991.00	12,554.16	115.65	130.50	-72.639	-551.26	1,519.93	7,523.81	7,418.60	105.21	71.510	
20,400.00	13,108.00	20,991.00	12,554.16	117.05	130.50	-72.639	-551.26	1,519.93	7,620.76	7,515.68	105.07	72.527	
20,500.00	13,108.00	20,991.00	12,554.16	118.46	130.50	-72.639	-551.26	1,519.93	7,717.79	7,612.84	104.94	73.542	
20,600.00	13,108.00	20,991.00	12,554.16	119.87	130.50	-72.639	-551.26	1,519.93	7,814.89	7,710.07	104.82	74.556	
20,700.00	13,108.00	20,991.00	12,554.16	121.28	130.50	-72.639	-551.26	1,519.93	7,912.06	7,807.36	104.70	75.567	
20,800.00	13,108.00	20,991.00	12,554.16	122.68	130.50	-72.639	-551.26	1,519.93	8,009.31	7,904.71	104.59	76.576	
20,900.00	13,108.00	20,991.00	12,554.16	124.09	130.50	-72.639	-551.26	1,519.93	8,106.62	8,002.13	104.49	77.582	
21,000.00	13,108.00	20,991.00	12,554.16	125.51	130.50	-72.639	-551.26	1,519.93	8,203.99	8,099.60	104.39	78.587	
21,100.00	13,108.00	20,991.00	12,554.16	126.92	130.50	-72.639	-551.26	1,519.93	8,301.43	8,197.13	104.30	79.588	
21,200.00	13,108.00	20,991.00	12,554.16	128.33	130.50	-72.639	-551.26	1,519.93	8,398.93	8,294.71	104.22	80.588	
21,300.00	13,108.00	20,991.00	12,554.16	129.74	130.50	-72.639	-551.26	1,519.93	8,496.49	8,392.34	104.14	81.585	
21,400.00	13,108.00	20,991.00	12,554.16	131.15	130.50	-72.639	-551.26	1,519.93	8,594.10	8,490.03	104.07	82.580	
21,500.00	13,108.00	20,991.00	12,554.16	132.57	130.50	-72.639	-551.26	1,519.93	8,691.77	8,587.76	104.00	83.572	
21,600.00	13,108.00	20,991.00	12,554.16	133.98	130.50	-72.639	-551.26	1,519.93	8,789.49	8,685.54	103.94	84.561	
21,700.00	13,108.00	20,991.00	12,554.16	135.39	130.50	-72.639	-551.26	1,519.93	8,887.26	8,783.37	103.89	85.548	
21,800.00	13,108.00	20,991.00	12,554.16	136.81	130.50	-72.639	-551.26	1,519.93	8,985.08	8,881.24	103.84	86.532	
21,900.00	13,108.00	20,991.00	12,554.16	138.22	130.50	-72.639	-551.26	1,519.93	9,082.94	8,979.15	103.79	87.513	
22,000.00	13,108.00	20,991.00	12,554.16	139.64	130.50	-72.639	-551.26	1,519.93	9,180.85	9,077.11	103.75	88.492	
22,100.00	13,108.00	20,991.00	12,554.16	141.06	130.50	-72.639	-551.26	1,519.93	9,278.81	9,175.10	103.71	89.467	
22,200.00	13,108.00	20,991.00	12,554.16	142.47	130.50	-72.639	-551.26	1,519.93	9,376.81	9,273.13	103.68	90.440	
22,300.00	13,108.00	20,991.00	12,554.16	143.89	130.50	-72.639	-551.26	1,519.93	9,474.85	9,371.20	103.65	91.410	
22,400.00	13,108.00	20,991.00	12,554.16	145.31	130.50	-72.639	-551.26	1,519.93	9,572.94	9,469.31	103.63	92.378	
22,500.00	13,108.00	20,991.00	12,554.16	146.72	130.50	-72.639	-551.26	1,519.93	9,671.06	9,567.45	103.61	93.342	
22,600.00	13,108.00	20,991.00	12,554.16	148.14	130.50	-72.639	-551.26	1,519.93	9,769.22	9,665.63	103.59	94.303	
22,700.00	13,108.00	20,991.00	12,554.16	149.56	130.50	-72.639	-551.26	1,519.93	9,867.42	9,763.83	103.58	95.262	
22,800.00	13,108.00	20,991.00	12,554.16	150.98	130.50	-72.639	-551.26	1,519.93	9,965.65	9,862.07	103.57	96.217	
22,900.00	13,108.00	20,991.00	12,554.16	152.40	130.50	-72.639	-551.26	1,519.93	10,063.92	9,960.35	103.57	97.170	
23,000.00	13,108.00	20,991.00	12,554.16	153.82	130.50	-72.639	-551.26	1,519.93	10,162.22	10,058.65	103.57	98.119	
23,100.00	13,108.00	20,991.00	12,554.16	155.24	130.50	-72.639	-551.26	1,519.93	10,260.55	10,156.98	103.57	99.065	
23,200.00	13,108.00	20,991.00	12,554.16	156.66	130.50	-72.639	-551.26	1,519.93	10,358.92	10,255.34	103.58	100.009	
23,247.14	13,108.00	20,991.00	12,554.16	157.33	130.50	-72.639	-551.26	1,519.93	10,405.29	10,301.71	103.58	100.452	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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					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	61.05	6.05	1.00	1.00	-0.959	7,900.20	-132.24	7,901.31					
100.00	100.00	169.02	114.02	1.08	1.04	-0.966	7,900.03	-133.20	7,901.17	7,899.04	2.12	3,721.073		
200.00	200.00	267.04	212.03	1.60	1.18	-0.973	7,899.87	-134.22	7,901.02	7,898.24	2.78	2,839.289		
300.00	300.00	370.42	315.40	2.01	1.42	-0.979	7,899.68	-134.94	7,900.85	7,897.42	3.43	2,305.447		
400.00	400.00	481.09	426.07	2.35	1.72	-0.982	7,899.39	-135.44	7,900.59	7,896.52	4.07	1,939.499		
500.00	500.00	589.44	534.42	2.65	2.05	-0.987	7,898.94	-136.02	7,900.19	7,895.48	4.70	1,679.847		
600.00	600.00	676.94	621.92	2.93	2.33	-0.990	7,898.62	-136.55	7,899.83	7,894.58	5.25	1,503.523		
700.00	700.00	764.89	709.87	3.18	2.62	-0.995	7,898.44	-137.14	7,899.63	7,893.84	5.79	1,363.513		
800.00	800.00	856.20	801.18	3.41	2.92	-0.999	7,898.36	-137.74	7,899.56	7,893.23	6.33	1,247.381		
813.52	813.52	868.55	813.52	3.44	2.96	-1.000	7,898.36	-137.82	7,899.56	7,893.16	6.40	1,233.471		
900.00	900.00	934.00	878.98	3.64	3.18	-1.002	7,898.38	-138.21	7,899.61	7,892.80	6.82	1,158.754		
1,000.00	1,000.00	1,032.39	977.36	3.85	3.51	-1.006	7,898.55	-138.67	7,899.80	7,892.44	7.36	1,073.754		
1,100.00	1,100.00	1,119.00	1,063.97	4.05	3.80	-1.008	7,898.87	-138.92	7,900.18	7,892.33	7.85	1,006.318		
1,200.00	1,200.00	1,284.52	1,229.49	4.24	4.37	-1.010	7,898.95	-139.28	7,900.23	7,891.62	8.61	918.044		
1,209.71	1,209.71	1,300.76	1,245.73	4.26	4.42	-1.010	7,898.88	-139.32	7,900.19	7,891.51	8.68	910.274		
1,300.00	1,300.00	1,270.00	1,214.97	4.43	4.32	-1.010	7,898.99	-139.25	7,900.68	7,891.94	8.74	903.744		
1,400.00	1,400.00	1,362.43	1,307.39	4.61	4.62	-1.005	7,899.41	-138.59	7,901.17	7,891.94	9.23	855.973		
1,500.00	1,500.00	1,454.00	1,398.92	4.78	4.93	-0.988	7,901.19	-136.22	7,903.01	7,893.30	9.71	813.753		
1,600.00	1,599.98	1,454.00	1,398.92	4.99	4.93	148.786	7,901.19	-136.22	7,906.42	7,896.54	9.88	800.367		
1,638.42	1,638.36	1,454.00	1,398.92	5.04	4.93	148.761	7,901.19	-136.22	7,908.85	7,898.93	9.92	797.120		
1,700.00	1,699.87	1,521.06	1,465.90	5.10	5.15	148.791	7,903.10	-133.86	7,913.10	7,902.91	10.20	775.918		
1,800.00	1,799.76	1,593.16	1,537.92	5.26	5.39	148.823	7,905.40	-131.32	7,920.36	7,909.78	10.58	748.502		
1,900.00	1,899.64	1,679.93	1,624.58	5.44	5.68	148.861	7,908.45	-128.27	7,927.95	7,916.91	11.04	718.102		
2,000.00	1,999.52	1,799.71	1,744.23	5.64	6.09	148.912	7,912.51	-124.26	7,935.42	7,923.80	11.62	682.624		
2,100.00	2,099.41	1,831.00	1,775.49	5.84	6.19	148.925	7,913.52	-123.26	7,943.06	7,931.14	11.92	666.506		
2,200.00	2,199.29	1,918.86	1,863.21	6.07	6.49	148.967	7,916.81	-119.64	7,950.94	7,938.52	12.42	640.389		
2,300.00	2,299.17	1,969.20	1,913.42	6.30	6.67	148.997	7,919.13	-116.82	7,959.61	7,946.81	12.79	622.260		
2,400.00	2,399.06	2,019.00	1,963.04	6.54	6.84	149.030	7,921.73	-113.49	7,968.90	7,955.72	13.17	605.000		
2,500.00	2,498.94	2,115.65	2,059.28	6.79	7.18	149.099	7,927.10	-106.37	7,978.52	7,964.79	13.73	581.203		
2,600.00	2,598.82	2,208.00	2,151.21	7.04	7.50	149.167	7,932.26	-99.30	7,988.19	7,973.92	14.27	559.618		
2,700.00	2,698.71	2,294.98	2,237.78	7.31	7.81	149.232	7,937.23	-92.45	7,997.99	7,983.18	14.81	539.996		
2,800.00	2,798.59	2,378.85	2,321.23	7.58	8.11	149.296	7,942.18	-85.68	8,008.00	7,992.66	15.34	521.971		
2,900.00	2,898.47	2,473.87	2,415.75	7.85	8.45	149.369	7,947.92	-77.83	8,018.15	8,002.23	15.92	503.636		
3,000.00	2,998.36	2,571.72	2,513.07	8.13	8.80	149.446	7,953.84	-69.52	8,028.33	8,011.81	16.51	486.133		
3,100.00	3,098.24	2,797.54	2,737.72	8.41	9.62	149.625	7,965.95	-50.13	8,037.96	8,020.37	17.59	456.978		
3,200.00	3,198.12	3,222.82	3,162.24	8.70	11.14	149.834	7,975.02	-31.27	8,043.19	8,023.82	19.37	415.254		
3,300.00	3,298.01	3,322.48	3,261.91	8.99	11.48	149.850	7,975.47	-31.34	8,047.81	8,027.84	19.97	402.950		
3,400.00	3,397.89	3,407.00	3,346.42	9.28	11.78	149.866	7,975.91	-31.26	8,052.52	8,031.99	20.53	392.312		
3,500.00	3,497.77	3,488.47	3,427.89	9.58	12.07	149.883	7,976.53	-30.78	8,057.45	8,036.38	21.07	382.390		
3,600.00	3,597.66	3,576.43	3,515.84	9.88	12.37	149.905	7,977.37	-29.85	8,062.59	8,040.94	21.64	372.532		
3,700.00	3,697.54	3,670.53	3,609.93	10.18	12.70	149.930	7,978.36	-28.58	8,067.82	8,045.58	22.24	362.787		
3,800.00	3,797.42	3,823.30	3,762.68	10.49	13.24	149.971	7,979.68	-26.46	8,072.93	8,049.89	23.04	350.370		
3,900.00	3,897.31	3,954.15	3,893.52	10.79	13.69	150.000	7,979.80	-25.54	8,077.17	8,053.40	23.77	339.852		
4,000.00	3,997.19	4,035.09	3,974.46	11.10	13.97	150.018	7,979.93	-24.97	8,081.51	8,057.20	24.32	332.310		
4,100.00	4,097.07	4,122.07	4,061.43	11.41	14.28	150.038	7,980.27	-24.23	8,086.09	8,061.19	24.90	324.805		
4,200.00	4,196.96	4,224.27	4,163.63	11.72	14.64	150.062	7,980.70	-23.37	8,090.70	8,065.17	25.53	316.929		
4,300.00	4,296.84	4,326.63	4,265.98	12.03	15.00	150.085	7,981.11	-22.59	8,095.28	8,069.12	26.16	309.408		
4,400.00	4,396.72	4,429.17	4,368.53	12.35	15.36	150.106	7,981.48	-22.01	8,099.84	8,073.03	26.80	302.216		
4,500.00	4,496.61	4,561.67	4,501.02	12.66	15.82	150.134	7,981.74	-21.26	8,104.24	8,076.70	27.55	294.218		
4,600.00	4,596.49	20,579.00	12,681.74	12.98	124.74	-154.518	-152.57	186.07	8,089.46	8,013.81	75.65	106.938		
4,700.00	4,696.37	20,579.00	12,681.74	13.29	124.74	-154.518	-152.57	186.07	7,989.69	7,913.89	75.81	105.393		
4,800.00	4,796.26	20,579.00	12,681.74	13.61	124.74	-154.518	-152.57	186.07	7,889.94	7,813.96	75.97	103.852		

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 422H - OH / 68635 - Surveys (H&P 625)												Offset Site Error:	0.00 usft
Survey Program: 154-MWD+HdGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,900.00	4,896.14	20,579.00	12,681.74	13.93	124.74	-154.518	-152.57	186.07	7,790.19	7,714.04	76.14	102.313	
5,000.00	4,996.02	20,579.00	12,681.74	14.25	124.74	-154.518	-152.57	186.07	7,690.44	7,614.13	76.31	100.778	
5,100.00	5,095.91	20,579.00	12,681.74	14.57	124.74	-154.518	-152.57	186.07	7,590.70	7,514.22	76.48	99.246	
5,200.00	5,195.79	20,579.00	12,681.74	14.89	124.74	-154.518	-152.57	186.07	7,490.97	7,414.31	76.66	97.717	
5,300.00	5,295.67	20,618.87	12,681.08	15.21	125.27	-151.087	-192.37	183.91	7,390.60	7,313.46	77.14	95.806	
5,400.00	5,395.56	20,619.54	12,681.08	15.54	125.28	-151.027	-193.04	183.88	7,290.86	7,213.53	77.33	94.285	
5,500.00	5,495.44	20,620.22	12,681.08	15.86	125.29	-150.965	-193.72	183.85	7,191.13	7,113.61	77.52	92.768	
5,600.00	5,595.32	20,620.92	12,681.08	16.19	125.30	-150.902	-194.42	183.82	7,091.40	7,013.69	77.71	91.254	
5,700.00	5,695.21	20,621.63	12,681.08	16.51	125.31	-150.837	-195.13	183.79	6,991.68	6,913.78	77.91	89.745	
5,800.00	5,795.09	20,622.36	12,681.08	16.83	125.32	-150.771	-195.86	183.76	6,891.97	6,813.87	78.10	88.240	
5,900.00	5,894.97	20,623.11	12,681.08	17.16	125.33	-150.703	-196.61	183.72	6,792.27	6,713.96	78.31	86.739	
6,000.00	5,994.86	20,623.87	12,681.08	17.49	125.34	-150.633	-197.37	183.69	6,692.57	6,614.06	78.51	85.243	
6,100.00	6,094.74	20,624.65	12,681.08	17.81	125.35	-150.561	-198.15	183.66	6,592.89	6,514.17	78.72	83.751	
6,200.00	6,194.62	20,625.45	12,681.08	18.14	125.36	-150.488	-198.95	183.62	6,493.21	6,414.28	78.93	82.263	
6,300.00	6,294.51	20,626.28	12,681.08	18.47	125.37	-150.413	-199.77	183.59	6,393.54	6,314.40	79.15	80.781	
6,400.00	6,394.39	20,627.12	12,681.08	18.79	125.38	-150.335	-200.61	183.55	6,293.89	6,214.52	79.36	79.303	
6,500.00	6,494.27	20,627.98	12,681.08	19.12	125.39	-150.256	-201.47	183.52	6,194.24	6,114.65	79.59	77.831	
6,600.00	6,594.16	20,628.86	12,681.08	19.45	125.40	-150.174	-202.35	183.48	6,094.60	6,014.79	79.81	76.363	
6,700.00	6,694.04	20,629.77	12,681.09	19.78	125.41	-150.091	-203.26	183.44	5,994.98	5,914.94	80.04	74.900	
6,800.00	6,793.92	20,630.70	12,681.09	20.11	125.43	-150.004	-204.19	183.41	5,895.37	5,815.09	80.27	73.443	
6,900.00	6,893.81	20,631.65	12,681.10	20.44	125.44	-149.916	-205.14	183.37	5,795.77	5,715.26	80.51	71.991	
7,000.00	6,993.69	20,632.63	12,681.10	20.77	125.45	-149.825	-206.12	183.33	5,696.18	5,615.43	80.75	70.545	
7,100.00	7,093.57	20,633.63	12,681.11	21.10	125.47	-149.731	-207.12	183.29	5,596.61	5,515.62	80.99	69.104	
7,200.00	7,193.46	20,634.66	12,681.11	21.43	125.48	-149.634	-208.15	183.25	5,497.05	5,415.81	81.23	67.669	
7,300.00	7,293.34	20,635.73	12,681.12	21.76	125.49	-149.535	-209.21	183.21	5,397.50	5,316.02	81.48	66.240	
7,400.00	7,393.22	20,674.00	12,681.90	22.09	126.00	-145.787	-247.46	182.11	5,298.58	5,216.56	82.02	64.599	
7,500.00	7,493.11	20,674.00	12,681.90	22.42	126.00	-145.787	-247.46	182.11	5,199.04	5,116.77	82.27	63.194	
7,600.00	7,592.99	20,674.00	12,681.90	22.75	126.00	-145.787	-247.46	182.11	5,099.51	5,016.99	82.53	61.793	
7,700.00	7,692.87	20,674.00	12,681.90	23.08	126.00	-145.787	-247.46	182.11	5,000.01	4,917.22	82.78	60.399	
7,800.00	7,792.76	20,674.00	12,681.90	23.41	126.00	-145.787	-247.46	182.11	4,900.52	4,817.48	83.04	59.011	
7,900.00	7,892.64	20,674.00	12,681.90	23.74	126.00	-145.787	-247.46	182.11	4,801.06	4,717.75	83.31	57.629	
8,000.00	7,992.52	20,674.00	12,681.90	24.07	126.00	-145.787	-247.46	182.11	4,701.61	4,618.04	83.58	56.253	
8,100.00	8,092.41	20,674.00	12,681.90	24.40	126.00	-145.787	-247.46	182.11	4,602.20	4,518.34	83.85	54.884	
8,200.00	8,192.29	20,674.00	12,681.90	24.74	126.00	-145.787	-247.46	182.11	4,502.81	4,418.67	84.13	53.520	
8,300.00	8,292.17	20,674.00	12,681.90	25.07	126.00	-145.787	-247.46	182.11	4,403.44	4,319.02	84.42	52.164	
8,400.00	8,392.06	20,674.00	12,681.90	25.40	126.00	-145.787	-247.46	182.11	4,304.11	4,219.40	84.70	50.813	
8,500.00	8,491.94	20,674.00	12,681.90	25.73	126.00	-145.787	-247.46	182.11	4,204.80	4,119.80	85.00	49.469	
8,600.00	8,591.82	20,674.00	12,681.90	26.07	126.00	-145.787	-247.46	182.11	4,105.53	4,020.24	85.30	48.132	
8,700.00	8,691.71	20,674.00	12,681.90	26.40	126.00	-145.787	-247.46	182.11	4,006.30	3,920.70	85.60	46.801	
8,800.00	8,791.59	20,674.00	12,681.90	26.73	126.00	-145.787	-247.46	182.11	3,907.11	3,821.19	85.91	45.477	
8,900.00	8,891.47	20,674.00	12,681.90	27.06	126.00	-145.787	-247.46	182.11	3,807.95	3,721.72	86.23	44.160	
9,000.00	8,991.36	20,674.00	12,681.90	27.40	126.00	-145.787	-247.46	182.11	3,708.85	3,622.29	86.55	42.850	
9,100.00	9,091.24	20,674.00	12,681.90	27.73	126.00	-145.787	-247.46	182.11	3,609.79	3,522.90	86.89	41.546	
9,200.00	9,191.12	20,674.00	12,681.90	28.06	126.00	-145.787	-247.46	182.11	3,510.79	3,423.56	87.22	40.250	
9,300.00	9,291.01	20,674.00	12,681.90	28.40	126.00	-145.787	-247.46	182.11	3,411.84	3,324.27	87.57	38.961	
9,400.00	9,390.89	20,674.00	12,681.90	28.73	126.00	-145.787	-247.46	182.11	3,312.96	3,225.03	87.93	37.678	
9,500.00	9,490.77	20,674.00	12,681.90	29.06	126.00	-145.787	-247.46	182.11	3,214.15	3,125.85	88.29	36.403	
9,600.00	9,590.66	20,674.00	12,681.90	29.40	126.00	-145.787	-247.46	182.11	3,115.41	3,026.74	88.67	35.135	
9,700.00	9,690.54	20,675.69	12,681.96	29.73	126.02	-145.615	-249.15	182.08	3,016.75	2,927.68	89.07	33.869	
9,800.00	9,790.42	20,689.98	12,682.41	30.06	126.21	-144.136	-263.44	181.79	2,918.17	2,828.59	89.58	32.575	
9,900.00	9,890.31	20,703.42	12,682.80	30.40	126.39	-142.713	-276.86	181.52	2,819.65	2,729.55	90.10	31.295	
10,000.00	9,990.19	20,716.07	12,683.15	30.73	126.56	-141.344	-289.50	181.26	2,721.20	2,630.58	90.62	30.027	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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)			
10,100.00	10,090.07	20,728.00	12,683.45	31.07	126.72	-140.028	-301.42	181.01	2,622.84	2,531.68	91.16	28.771	
10,200.00	10,189.96	20,739.26	12,683.71	31.40	126.87	-138.763	-312.69	180.78	2,524.58	2,432.86	91.71	27.527	
10,300.00	10,289.84	20,749.93	12,683.94	31.74	127.02	-137.547	-323.35	180.56	2,426.43	2,334.14	92.28	26.294	
10,400.00	10,389.72	20,760.03	12,684.14	32.07	127.15	-136.378	-333.45	180.35	2,328.40	2,235.53	92.87	25.071	
10,500.00	10,489.60	20,769.62	12,684.31	32.40	127.28	-135.256	-343.03	180.15	2,230.53	2,137.04	93.49	23.859	
10,600.00	10,589.49	20,778.73	12,684.46	32.74	127.40	-134.177	-352.14	179.96	2,132.83	2,038.70	94.13	22.658	
10,700.00	10,689.37	20,787.40	12,684.59	33.07	127.52	-133.140	-360.81	179.78	2,035.33	1,940.51	94.82	21.466	
10,800.00	10,789.25	20,790.93	12,684.66	33.41	127.56	-132.714	-364.34	179.71	1,938.08	1,842.57	95.51	20.292	
10,900.00	10,889.14	20,797.82	12,684.77	33.74	127.66	-131.881	-371.22	179.57	1,841.09	1,744.80	96.29	19.121	
11,000.00	10,989.02	20,804.55	12,684.86	34.08	127.75	-131.061	-377.95	179.43	1,744.42	1,647.29	97.13	17.960	
11,100.00	11,088.90	20,811.13	12,684.95	34.41	127.83	-130.254	-384.53	179.30	1,648.12	1,550.07	98.05	16.809	
11,200.00	11,188.79	20,817.57	12,685.04	34.75	127.92	-129.460	-390.97	179.17	1,552.26	1,453.19	99.07	15.668	
11,300.00	11,288.67	20,823.87	12,685.12	35.08	128.01	-128.679	-397.26	179.04	1,456.94	1,356.73	100.22	14.538	
11,400.00	11,388.55	20,830.03	12,685.19	35.42	128.09	-127.912	-403.42	178.92	1,362.27	1,260.76	101.52	13.419	
11,500.00	11,488.44	20,836.06	12,685.26	35.75	128.17	-127.158	-409.45	178.80	1,268.39	1,165.38	103.01	12.314	
11,600.00	11,588.32	20,841.97	12,685.33	36.09	128.25	-126.417	-415.36	178.69	1,175.49	1,070.75	104.74	11.222	
11,700.00	11,688.20	20,847.75	12,685.39	36.42	128.32	-125.689	-421.14	178.57	1,083.83	977.03	106.79	10.149	
11,800.00	11,788.09	20,853.42	12,685.44	36.76	128.40	-124.974	-426.80	178.46	993.74	884.50	109.25	9.096	
11,900.00	11,887.97	20,858.96	12,685.49	37.09	128.47	-124.271	-432.35	178.36	905.71	793.50	112.21	8.071	
11,908.72	11,896.68	20,859.44	12,685.50	37.12	128.48	-124.211	-432.83	178.35	898.15	785.65	112.50	7.984	
12,000.00	11,987.91	20,863.39	12,685.53	37.41	128.53	-121.150	-436.77	178.27	819.96	704.19	115.78	7.082	
12,047.14	12,035.04	20,864.39	12,685.54	37.47	128.55	90.432	-437.78	178.25	780.36	662.70	117.66	6.632	
12,100.00	12,087.91	20,864.97	12,685.55	37.47	128.56	90.509	-438.35	178.24	736.87	616.89	119.98	6.142	
12,200.00	12,187.91	20,866.00	12,685.55	37.48	128.57	90.645	-439.38	178.22	658.37	533.29	125.08	5.264	
12,300.00	12,287.91	20,866.96	12,685.56	37.48	128.58	90.773	-440.34	178.20	586.45	455.30	131.16	4.471	
12,400.00	12,387.91	20,867.85	12,685.57	37.49	128.59	90.892	-441.24	178.18	523.83	385.83	137.99	3.796	
12,500.00	12,487.91	20,868.69	12,685.57	37.50	128.60	91.004	-442.08	178.16	474.20	329.39	144.81	3.275	
12,547.14	12,535.04	20,869.07	12,685.58	37.49	128.61	91.054	-442.45	178.16	456.56	308.97	147.59	3.093	
12,550.00	12,537.91	20,869.10	12,685.58	37.50	128.61	-88.466	-442.48	178.16	455.63	307.88	147.75	3.084	
12,600.00	12,587.83	20,872.26	12,685.60	37.64	128.65	-89.476	-445.64	178.09	441.90	291.81	150.10	2.944	
12,650.00	12,637.36	20,880.18	12,685.63	37.90	128.76	-89.294	-453.56	177.91	433.43	281.79	151.65	2.858	
12,700.00	12,686.10	20,892.61	12,685.66	38.17	128.92	-87.992	-465.99	177.61	430.35	278.08	152.27	2.826	
12,704.10	12,690.05	20,893.82	12,685.66	38.20	128.94	-87.838	-467.20	177.57	430.33	278.05	152.28	2.826 CC, ES, SF	
12,750.00	12,733.70	20,909.27	12,685.63	38.46	129.15	-85.671	-482.64	177.14	432.45	280.47	151.99	2.845	
12,800.00	12,779.78	20,928.69	12,685.53	38.75	129.41	-82.614	-502.05	176.55	439.22	288.23	150.98	2.909	
12,850.00	12,824.00	20,951.74	12,685.42	39.03	129.71	-78.852	-525.09	175.85	449.92	300.49	149.42	3.011	
12,900.00	12,866.02	20,972.00	12,685.32	39.31	129.98	-75.247	-545.34	175.23	463.67	315.87	147.80	3.137	
12,950.00	12,905.52	20,972.00	12,685.32	39.57	129.98	-73.490	-545.34	175.23	480.79	334.10	146.69	3.278	
13,000.00	12,942.21	20,972.00	12,685.32	39.82	129.98	-71.355	-545.34	175.23	501.23	356.04	145.19	3.452	
13,050.00	12,975.79	20,972.00	12,685.32	40.06	129.98	-68.889	-545.34	175.23	524.44	381.04	143.40	3.657	
13,100.00	13,006.02	20,972.00	12,685.32	40.27	129.98	-66.153	-545.34	175.23	549.91	408.49	141.42	3.889	
13,150.00	13,032.66	20,972.00	12,685.32	40.46	129.98	-63.215	-545.34	175.23	577.16	437.82	139.34	4.142	
13,200.00	13,055.52	20,972.00	12,685.32	40.63	129.98	-60.145	-545.34	175.23	605.76	468.54	137.23	4.414	
13,250.00	13,074.42	20,972.00	12,685.32	40.77	129.98	-57.017	-545.34	175.23	635.33	500.22	135.12	4.702	
13,300.00	13,089.21	20,972.00	12,685.32	40.89	129.98	-53.898	-545.34	175.23	665.52	532.48	133.04	5.002	
13,350.00	13,099.79	20,972.00	12,685.32	40.99	129.98	-50.847	-545.34	175.23	696.04	565.03	131.01	5.313	
13,400.00	13,106.06	20,972.00	12,685.32	41.06	129.98	-47.912	-545.34	175.23	726.63	597.58	129.05	5.631	
13,447.14	13,108.00	20,972.00	12,685.32	41.11	129.98	-45.284	-545.34	175.23	755.33	628.08	127.26	5.935	
13,500.00	13,108.00	20,972.00	12,685.32	41.15	129.98	-45.284	-545.34	175.23	788.50	663.26	125.24	6.296	
13,600.00	13,108.00	20,972.00	12,685.32	41.25	129.98	-45.284	-545.34	175.23	856.66	735.25	121.41	7.056	
13,700.00	13,108.00	20,972.00	12,685.32	41.37	129.98	-45.284	-545.34	175.23	930.60	812.81	117.79	7.901	
13,800.00	13,108.00	20,972.00	12,685.32	41.51	129.98	-45.284	-545.34	175.23	1,009.04	894.55	114.48	8.814	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 422H - OH / 68635 - Surveys (H&P 625)													Offset Site Error:	0.00 usft
Survey Program:		154-MWD+HDGM				Rule Assigned:				Offset Well Error:		1.00 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
13,900.00	13,108.00	20,972.00	12,685.32	41.67	129.98	-45.284	-545.34	175.23	1,091.01	979.48	111.53	9.782		
14,000.00	13,108.00	20,972.00	12,685.32	41.87	129.98	-45.284	-545.34	175.23	1,175.77	1,066.85	108.93	10.794		
14,100.00	13,108.00	20,972.00	12,685.32	42.10	129.98	-45.284	-545.34	175.23	1,262.77	1,156.13	106.64	11.841		
14,200.00	13,108.00	20,972.00	12,685.32	42.37	129.98	-45.284	-545.34	175.23	1,351.57	1,246.92	104.64	12.916		
14,300.00	13,108.00	20,972.00	12,685.32	42.69	129.98	-45.284	-545.34	175.23	1,441.83	1,338.94	102.89	14.013		
14,400.00	13,108.00	20,972.00	12,685.32	43.06	129.98	-45.284	-545.34	175.23	1,533.30	1,431.94	101.36	15.127		
14,500.00	13,108.00	20,972.00	12,685.32	43.48	129.98	-45.284	-545.34	175.23	1,625.78	1,525.77	100.01	16.255		
14,600.00	13,108.00	20,972.00	12,685.32	43.97	129.98	-45.284	-545.34	175.23	1,719.10	1,620.27	98.83	17.395		
14,700.00	13,108.00	20,972.00	12,685.32	44.53	129.98	-45.284	-545.34	175.23	1,813.13	1,715.35	97.78	18.542		
14,800.00	13,108.00	20,972.00	12,685.32	45.16	129.98	-45.284	-545.34	175.23	1,907.77	1,810.91	96.86	19.696		
14,900.00	13,108.00	20,972.00	12,685.32	45.87	129.98	-45.284	-545.34	175.23	2,002.93	1,906.89	96.04	20.855		
15,000.00	13,108.00	20,972.00	12,685.32	46.64	129.98	-45.284	-545.34	175.23	2,098.54	2,003.23	95.31	22.019		
15,100.00	13,108.00	20,972.00	12,685.32	47.49	129.98	-45.284	-545.34	175.23	2,194.54	2,099.89	94.66	23.185		
15,200.00	13,108.00	20,972.00	12,685.32	48.39	129.98	-45.284	-545.34	175.23	2,290.89	2,196.81	94.07	24.353		
15,300.00	13,108.00	20,972.00	12,685.32	49.36	129.98	-45.284	-545.34	175.23	2,387.53	2,293.98	93.55	25.522		
15,400.00	13,108.00	20,972.00	12,685.32	50.38	129.98	-45.284	-545.34	175.23	2,484.44	2,391.36	93.08	26.692		
15,500.00	13,108.00	20,972.00	12,685.32	51.44	129.98	-45.284	-545.34	175.23	2,581.59	2,488.93	92.65	27.863		
15,600.00	13,108.00	20,972.00	12,685.32	52.54	129.98	-45.284	-545.34	175.23	2,678.94	2,586.67	92.27	29.033		
15,700.00	13,108.00	20,972.00	12,685.32	53.67	129.98	-45.284	-545.34	175.23	2,776.49	2,684.56	91.93	30.203		
15,800.00	13,108.00	20,972.00	12,685.32	54.84	129.98	-45.284	-545.34	175.23	2,874.20	2,782.58	91.62	31.372		
15,900.00	13,108.00	20,972.00	12,685.32	56.02	129.98	-45.284	-545.34	175.23	2,972.06	2,880.73	91.34	32.540		
16,000.00	13,108.00	20,972.00	12,685.32	57.24	129.98	-45.284	-545.34	175.23	3,070.07	2,978.99	91.08	33.707		
16,100.00	13,108.00	20,972.00	12,685.32	58.47	129.98	-45.284	-545.34	175.23	3,168.19	3,077.34	90.85	34.873		
16,200.00	13,108.00	20,972.00	12,685.32	59.71	129.98	-45.284	-545.34	175.23	3,266.43	3,175.79	90.64	36.037		
16,300.00	13,108.00	20,972.00	12,685.32	60.97	129.98	-45.284	-545.34	175.23	3,364.78	3,274.33	90.45	37.200		
16,400.00	13,108.00	20,972.00	12,685.32	62.25	129.98	-45.284	-545.34	175.23	3,463.22	3,372.94	90.28	38.360		
16,500.00	13,108.00	20,972.00	12,685.32	63.53	129.98	-45.284	-545.34	175.23	3,561.74	3,471.62	90.13	39.519		
16,600.00	13,108.00	20,972.00	12,685.32	64.83	129.98	-45.284	-545.34	175.23	3,660.35	3,570.36	89.99	40.676		
16,700.00	13,108.00	20,972.00	12,685.32	66.13	129.98	-45.284	-545.34	175.23	3,759.03	3,669.17	89.86	41.830		
16,800.00	13,108.00	20,972.00	12,685.32	67.45	129.98	-45.284	-545.34	175.23	3,857.78	3,768.03	89.75	42.983		
16,900.00	13,108.00	20,972.00	12,685.32	68.77	129.98	-45.284	-545.34	175.23	3,956.59	3,866.94	89.65	44.133		
17,000.00	13,108.00	20,972.00	12,685.32	70.10	129.98	-45.284	-545.34	175.23	4,055.46	3,965.90	89.56	45.281		
17,100.00	13,108.00	20,972.00	12,685.32	71.43	129.98	-45.284	-545.34	175.23	4,154.38	4,064.90	89.48	46.426		
17,200.00	13,108.00	20,972.00	12,685.32	72.77	129.98	-45.284	-545.34	175.23	4,253.35	4,163.94	89.41	47.569		
17,300.00	13,108.00	20,972.00	12,685.32	74.11	129.98	-45.284	-545.34	175.23	4,352.37	4,263.02	89.35	48.710		
17,400.00	13,108.00	20,972.00	12,685.32	75.46	129.98	-45.284	-545.34	175.23	4,451.44	4,362.14	89.30	49.848		
17,500.00	13,108.00	20,972.00	12,685.32	76.81	129.98	-45.284	-545.34	175.23	4,550.54	4,461.29	89.26	50.983		
17,600.00	13,108.00	20,972.00	12,685.32	78.17	129.98	-45.284	-545.34	175.23	4,649.69	4,560.47	89.22	52.115		
17,700.00	13,108.00	20,972.00	12,685.32	79.53	129.98	-45.284	-545.34	175.23	4,748.87	4,659.68	89.19	53.245		
17,800.00	13,108.00	20,972.00	12,685.32	80.89	129.98	-45.284	-545.34	175.23	4,848.08	4,758.91	89.16	54.372		
17,900.00	13,108.00	20,972.00	12,685.32	82.26	129.98	-45.284	-545.34	175.23	4,947.32	4,858.18	89.15	55.496		
18,000.00	13,108.00	20,972.00	12,685.32	83.63	129.98	-45.284	-545.34	175.23	5,046.60	4,957.46	89.13	56.618		
18,100.00	13,108.00	20,972.00	12,685.32	85.00	129.98	-45.284	-545.34	175.23	5,145.90	5,056.77	89.13	57.736		
18,200.00	13,108.00	20,972.00	12,685.32	86.38	129.98	-45.284	-545.34	175.23	5,245.23	5,156.10	89.13	58.852		
18,300.00	13,108.00	20,972.00	12,685.32	87.76	129.98	-45.284	-545.34	175.23	5,344.59	5,255.46	89.13	59.964		
18,400.00	13,108.00	20,972.00	12,685.32	89.14	129.98	-45.284	-545.34	175.23	5,443.96	5,354.83	89.14	61.074		
18,500.00	13,108.00	20,972.00	12,685.32	90.52	129.98	-45.284	-545.34	175.23	5,543.36	5,454.21	89.15	62.180		
18,600.00	13,108.00	20,972.00	12,685.32	91.90	129.98	-45.284	-545.34	175.23	5,642.78	5,553.62	89.17	63.283		
18,700.00	13,108.00	20,972.00	12,685.32	93.29	129.98	-45.284	-545.34	175.23	5,742.23	5,653.04	89.19	64.384		
18,800.00	13,108.00	20,972.00	12,685.32	94.68	129.98	-45.284	-545.34	175.23	5,841.69	5,752.47	89.21	65.481		
18,900.00	13,108.00	20,972.00	12,685.32	96.06	129.98	-45.284	-545.34	175.23	5,941.17	5,851.92	89.24	66.575		
19,000.00	13,108.00	20,972.00	12,685.32	97.46	129.98	-45.284	-545.34	175.23	6,040.66	5,951.39	89.27	67.665		

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
19,100.00	13,108.00	20,972.00	12,685.32	98.85	129.98	-45.284	-545.34	175.23	6,140.17	6,050.87	89.31	68.753			
19,200.00	13,108.00	20,972.00	12,685.32	100.24	129.98	-45.284	-545.34	175.23	6,239.70	6,150.36	89.35	69.837			
19,300.00	13,108.00	20,972.00	12,685.32	101.64	129.98	-45.284	-545.34	175.23	6,339.24	6,249.86	89.39	70.918			
19,400.00	13,108.00	20,972.00	12,685.32	103.03	129.98	-45.284	-545.34	175.23	6,438.80	6,349.37	89.43	71.996			
19,500.00	13,108.00	20,972.00	12,685.32	104.43	129.98	-45.284	-545.34	175.23	6,538.37	6,448.89	89.48	73.070			
19,600.00	13,108.00	20,972.00	12,685.32	105.83	129.98	-45.284	-545.34	175.23	6,637.96	6,548.42	89.53	74.141			
19,700.00	13,108.00	20,972.00	12,685.32	107.23	129.98	-45.284	-545.34	175.23	6,737.55	6,647.97	89.58	75.209			
19,800.00	13,108.00	20,972.00	12,685.32	108.63	129.98	-45.284	-545.34	175.23	6,837.16	6,747.52	89.64	76.273			
19,900.00	13,108.00	20,972.00	12,685.32	110.03	129.98	-45.284	-545.34	175.23	6,936.78	6,847.08	89.70	77.334			
20,000.00	13,108.00	20,972.00	12,685.32	111.43	129.98	-45.284	-545.34	175.23	7,036.41	6,946.65	89.76	78.391			
20,100.00	13,108.00	20,972.00	12,685.32	112.84	129.98	-45.284	-545.34	175.23	7,136.05	7,046.22	89.82	79.445			
20,200.00	13,108.00	20,972.00	12,685.32	114.24	129.98	-45.284	-545.34	175.23	7,235.70	7,145.81	89.89	80.495			
20,300.00	13,108.00	20,972.00	12,685.32	115.65	129.98	-45.284	-545.34	175.23	7,335.36	7,245.40	89.96	81.542			
20,400.00	13,108.00	20,972.00	12,685.32	117.05	129.98	-45.284	-545.34	175.23	7,435.02	7,345.00	90.03	82.586			
20,500.00	13,108.00	20,972.00	12,685.32	118.46	129.98	-45.284	-545.34	175.23	7,534.70	7,444.60	90.10	83.626			
20,600.00	13,108.00	20,972.00	12,685.32	119.87	129.98	-45.284	-545.34	175.23	7,634.39	7,544.21	90.17	84.662			
20,700.00	13,108.00	20,972.00	12,685.32	121.28	129.98	-45.284	-545.34	175.23	7,734.08	7,643.83	90.25	85.695			
20,800.00	13,108.00	20,972.00	12,685.32	122.68	129.98	-45.284	-545.34	175.23	7,833.78	7,743.45	90.33	86.724			
20,900.00	13,108.00	20,972.00	12,685.32	124.09	129.98	-45.284	-545.34	175.23	7,933.49	7,843.08	90.41	87.750			
21,000.00	13,108.00	20,972.00	12,685.32	125.51	129.98	-45.284	-545.34	175.23	8,033.21	7,942.72	90.49	88.772			
21,100.00	13,108.00	20,972.00	12,685.32	126.92	129.98	-45.284	-545.34	175.23	8,132.93	8,042.36	90.58	89.791			
21,200.00	13,108.00	20,972.00	12,685.32	128.33	129.98	-45.284	-545.34	175.23	8,232.66	8,142.00	90.66	90.805			
21,300.00	13,108.00	20,972.00	12,685.32	129.74	129.98	-45.284	-545.34	175.23	8,332.40	8,241.65	90.75	91.817			
21,400.00	13,108.00	20,972.00	12,685.32	131.15	129.98	-45.284	-545.34	175.23	8,432.14	8,341.30	90.84	92.824			
21,500.00	13,108.00	20,972.00	12,685.32	132.57	129.98	-45.284	-545.34	175.23	8,531.89	8,440.96	90.93	93.828			
21,600.00	13,108.00	20,972.00	12,685.32	133.98	129.98	-45.284	-545.34	175.23	8,631.65	8,540.62	91.02	94.829			
21,700.00	13,108.00	20,972.00	12,685.32	135.39	129.98	-45.284	-545.34	175.23	8,731.41	8,640.29	91.12	95.825			
21,800.00	13,108.00	20,972.00	12,685.32	136.81	129.98	-45.284	-545.34	175.23	8,831.17	8,739.96	91.21	96.818			
21,900.00	13,108.00	20,972.00	12,685.32	138.22	129.98	-45.284	-545.34	175.23	8,930.94	8,839.63	91.31	97.808			
22,000.00	13,108.00	20,972.00	12,685.32	139.64	129.98	-45.284	-545.34	175.23	9,030.72	8,939.31	91.41	98.793			
22,100.00	13,108.00	20,972.00	12,685.32	141.06	129.98	-45.284	-545.34	175.23	9,130.50	9,038.99	91.51	99.775			
22,200.00	13,108.00	20,972.00	12,685.32	142.47	129.98	-45.284	-545.34	175.23	9,230.29	9,138.67	91.61	100.754			
22,300.00	13,108.00	20,972.00	12,685.32	143.89	129.98	-45.284	-545.34	175.23	9,330.08	9,238.36	91.72	101.728			
22,400.00	13,108.00	20,972.00	12,685.32	145.31	129.98	-45.284	-545.34	175.23	9,429.87	9,338.05	91.82	102.699			
22,500.00	13,108.00	20,972.00	12,685.32	146.72	129.98	-45.284	-545.34	175.23	9,529.67	9,437.74	91.93	103.666			
22,600.00	13,108.00	20,972.00	12,685.32	148.14	129.98	-45.284	-545.34	175.23	9,629.47	9,537.44	92.03	104.630			
22,700.00	13,108.00	20,972.00	12,685.32	149.56	129.98	-45.284	-545.34	175.23	9,729.28	9,637.14	92.14	105.589			
22,800.00	13,108.00	20,972.00	12,685.32	150.98	129.98	-45.284	-545.34	175.23	9,829.09	9,736.84	92.25	106.545			
22,900.00	13,108.00	20,972.00	12,685.32	152.40	129.98	-45.284	-545.34	175.23	9,928.91	9,836.54	92.36	107.498			
23,000.00	13,108.00	20,972.00	12,685.32	153.82	129.98	-45.284	-545.34	175.23	10,028.72	9,936.25	92.48	108.446			
23,100.00	13,108.00	20,972.00	12,685.32	155.24	129.98	-45.284	-545.34	175.23	10,128.55	10,035.96	92.59	109.391			
23,200.00	13,108.00	20,972.00	12,685.32	156.66	129.98	-45.284	-545.34	175.23	10,228.37	10,135.67	92.71	110.332			
23,247.14	13,108.00	20,972.00	12,685.32	157.33	129.98	-45.284	-545.34	175.23	10,275.43	10,182.67	92.76	110.775			

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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+HDMG													Offset Well Error: 1.00 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	62.88	7.88	1.00	1.00	-1.392	7,899.69	-191.93	7,902.03				
100.00	100.00	174.29	119.29	1.08	1.04	-1.392	7,899.49	-191.91	7,901.84	7,899.71	2.13	3,712.318	
200.00	200.00	274.21	219.21	1.60	1.20	-1.392	7,899.24	-191.92	7,901.60	7,898.80	2.80	2,825.584	
300.00	300.00	382.61	327.61	2.01	1.45	-1.392	7,898.94	-192.00	7,901.32	7,897.86	3.46	2,285.407	
400.00	400.00	494.44	439.44	2.35	1.76	-1.395	7,898.45	-192.33	7,900.89	7,896.78	4.11	1,922.010	
500.00	500.00	576.42	521.41	2.65	2.00	-1.396	7,898.15	-192.52	7,900.53	7,895.87	4.66	1,697.179	
600.00	600.00	663.00	608.00	2.93	2.27	-1.396	7,898.00	-192.49	7,900.35	7,895.16	5.20	1,520.382	
660.18	660.18	715.18	660.18	3.08	2.43	-1.396	7,897.99	-192.41	7,900.33	7,894.82	5.51	1,433.966	
700.00	700.00	751.17	696.16	3.18	2.54	-1.395	7,898.00	-192.35	7,900.34	7,894.62	5.72	1,380.468	
800.00	800.00	845.00	790.00	3.41	2.84	-1.394	7,898.11	-192.17	7,900.45	7,894.19	6.26	1,262.690	
900.00	900.00	957.31	902.31	3.64	3.21	-1.392	7,898.19	-191.97	7,900.53	7,893.68	6.85	1,153.676	
1,000.00	1,000.00	1,056.30	1,001.30	3.85	3.54	-1.391	7,898.11	-191.79	7,900.44	7,893.05	7.39	1,069.252	
1,005.25	1,005.25	1,060.25	1,005.25	3.86	3.56	-1.391	7,898.11	-191.78	7,900.44	7,893.03	7.41	1,065.817	
1,100.00	1,100.00	1,131.59	1,076.59	4.05	3.80	-1.390	7,898.22	-191.60	7,900.58	7,892.74	7.84	1,007.297	
1,200.00	1,200.00	1,313.69	1,258.68	4.24	4.41	-1.386	7,897.54	-191.08	7,900.07	7,891.41	8.65	912.953	
1,300.00	1,300.00	1,373.31	1,318.30	4.43	4.62	-1.386	7,897.24	-191.14	7,899.58	7,890.54	9.04	873.697	
1,345.28	1,345.28	1,400.31	1,345.30	4.51	4.71	-1.387	7,897.21	-191.24	7,899.53	7,890.31	9.21	857.280	
1,400.00	1,400.00	1,461.00	1,405.99	4.61	4.91	-1.390	7,897.36	-191.60	7,899.69	7,890.17	9.52	829.861	
1,405.99	1,405.99	1,461.00	1,405.99	4.62	4.91	-1.390	7,897.36	-191.60	7,899.68	7,890.15	9.53	828.949	
1,500.00	1,500.00	1,461.00	1,405.99	4.78	4.91	-1.390	7,897.36	-191.60	7,900.24	7,890.55	9.69	814.985	
1,600.00	1,599.98	1,539.92	1,484.89	4.99	5.18	148.388	7,898.12	-192.59	7,902.79	7,892.66	10.13	780.486	
1,638.42	1,638.36	1,559.72	1,504.69	5.04	5.24	148.368	7,898.42	-192.95	7,904.75	7,894.52	10.24	772.304	
1,700.00	1,699.87	1,591.44	1,536.40	5.10	5.35	148.369	7,899.00	-193.63	7,908.44	7,898.05	10.40	760.685	
1,800.00	1,799.76	1,649.00	1,593.92	5.26	5.54	148.369	7,900.35	-195.17	7,914.93	7,904.20	10.73	737.330	
1,900.00	1,899.64	1,736.81	1,681.65	5.44	5.84	148.365	7,902.69	-198.07	7,921.78	7,910.58	11.20	707.140	
2,000.00	1,999.52	1,836.38	1,781.11	5.64	6.18	148.355	7,905.34	-201.99	7,928.65	7,916.93	11.72	676.411	
2,100.00	2,099.41	1,928.28	1,872.90	5.84	6.50	148.344	7,907.82	-205.90	7,935.56	7,923.33	12.23	649.008	
2,200.00	2,199.29	2,026.00	1,970.49	6.07	6.84	148.332	7,910.56	-210.03	7,942.58	7,929.81	12.76	622.362	
2,300.00	2,299.17	2,119.83	2,064.20	6.30	7.16	148.322	7,913.24	-213.92	7,949.64	7,936.35	13.29	598.021	
2,400.00	2,399.06	2,215.00	2,159.26	6.54	7.50	148.313	7,915.95	-217.71	7,956.70	7,942.87	13.84	575.056	
2,500.00	2,498.94	2,294.90	2,239.06	6.79	7.78	148.305	7,918.36	-220.85	7,963.92	7,949.59	14.33	555.622	
2,600.00	2,598.82	2,370.92	2,314.98	7.04	8.04	148.297	7,920.87	-223.88	7,971.44	7,956.62	14.82	537.809	
2,700.00	2,698.71	2,448.49	2,392.43	7.31	8.32	148.290	7,923.67	-226.99	7,979.25	7,963.93	15.32	520.777	
2,800.00	2,798.59	2,527.19	2,471.02	7.58	8.60	148.283	7,926.72	-229.99	7,987.33	7,971.50	15.83	504.553	
2,900.00	2,898.47	2,609.19	2,552.89	7.85	8.89	148.277	7,930.11	-232.94	7,995.66	7,979.30	16.36	488.868	
3,000.00	2,998.36	2,705.48	2,649.01	8.13	9.23	148.268	7,934.19	-236.86	8,004.10	7,987.17	16.94	472.586	
3,100.00	3,098.24	2,802.24	2,745.58	8.41	9.57	148.252	7,938.31	-241.55	8,012.59	7,995.07	17.52	457.245	
3,200.00	3,198.12	2,900.79	2,843.92	8.70	9.93	148.238	7,942.54	-246.17	8,021.10	8,002.98	18.12	442.639	
3,300.00	3,298.01	3,031.96	2,974.87	8.99	10.39	148.225	7,948.07	-251.54	8,029.57	8,010.72	18.84	426.190	
3,400.00	3,397.89	3,222.95	3,165.62	9.28	11.08	148.212	7,954.44	-258.38	8,037.07	8,017.29	19.78	406.337	
3,500.00	3,497.77	3,376.20	3,318.74	9.58	11.62	148.201	7,958.14	-263.84	8,043.66	8,023.08	20.58	390.776	
3,600.00	3,597.66	3,486.30	3,428.73	9.88	12.02	148.190	7,960.40	-268.26	8,049.93	8,028.69	21.24	379.084	
3,700.00	3,697.54	3,599.81	3,542.10	10.18	12.43	148.174	7,962.55	-273.40	8,056.05	8,034.15	21.90	367.833	
3,800.00	3,797.42	3,715.93	3,658.07	10.49	12.84	148.156	7,964.52	-279.01	8,061.99	8,039.41	22.58	357.051	
3,900.00	3,897.31	3,822.70	3,764.73	10.79	13.22	148.144	7,966.19	-283.49	8,067.77	8,044.55	23.22	347.390	
4,000.00	3,997.19	3,929.70	3,871.68	11.10	13.61	148.145	7,967.83	-286.05	8,073.48	8,049.60	23.87	338.211	
4,100.00	4,097.07	4,040.64	3,982.60	11.41	14.00	148.154	7,969.43	-287.74	8,079.06	8,054.53	24.53	329.322	
4,200.00	4,196.96	4,147.09	4,089.02	11.72	14.38	148.164	7,970.85	-289.04	8,084.53	8,059.35	25.18	321.081	
4,300.00	4,296.84	4,248.35	4,190.27	12.03	14.74	148.173	7,972.15	-290.34	8,089.96	8,064.15	25.81	313.461	
4,400.00	4,396.72	4,330.40	4,272.31	12.35	15.03	148.181	7,973.25	-291.38	8,095.44	8,069.07	26.37	307.018	
4,500.00	4,496.61	4,400.06	4,341.96	12.66	15.27	148.192	7,974.44	-291.68	8,101.27	8,074.39	26.88	301.356	
4,600.00	4,596.49	4,477.00	4,418.88	12.98	15.54	148.209	7,976.08	-291.30	8,107.47	8,080.05	27.42	295.628	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 432H - OH / 68636 - Surveys (H&P 625)												Offset Site Error:	0.00 usft
Survey Program: 154-MWD+HDCM												Offset Well Error:	1.00 usft
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	
4,700.00	4,696.37	20,261.41	12,711.01	13.29	118.60	135.637	260.44	-453.83	8,033.06	7,960.15	72.92	110.167	
4,800.00	4,796.26	20,263.36	12,711.11	13.61	118.62	135.602	258.49	-453.81	7,933.50	7,860.41	73.09	108.543	
4,900.00	4,896.14	20,265.36	12,711.21	13.93	118.65	135.567	256.50	-453.80	7,833.95	7,760.68	73.27	106.923	
5,000.00	4,996.02	20,267.39	12,711.31	14.25	118.67	135.530	254.47	-453.78	7,734.41	7,660.96	73.45	105.306	
5,100.00	5,095.91	20,305.00	12,713.60	14.57	119.18	134.830	216.93	-453.23	7,635.25	7,561.34	73.91	103.308	
5,200.00	5,195.79	20,305.00	12,713.60	14.89	119.18	134.830	216.93	-453.23	7,535.68	7,461.60	74.08	101.728	
5,300.00	5,295.67	20,305.00	12,713.60	15.21	119.18	134.830	216.93	-453.23	7,436.13	7,361.88	74.25	100.153	
5,400.00	5,395.56	20,305.00	12,713.60	15.54	119.18	134.830	216.93	-453.23	7,336.58	7,262.16	74.42	98.581	
5,500.00	5,495.44	20,305.00	12,713.60	15.86	119.18	134.830	216.93	-453.23	7,237.05	7,162.46	74.60	97.014	
5,600.00	5,595.32	20,305.00	12,713.60	16.19	119.18	134.830	216.93	-453.23	7,137.54	7,062.76	74.78	95.451	
5,700.00	5,695.21	20,305.00	12,713.60	16.51	119.18	134.830	216.93	-453.23	7,038.04	6,963.08	74.96	93.892	
5,800.00	5,795.09	20,305.00	12,713.60	16.83	119.18	134.830	216.93	-453.23	6,938.55	6,863.41	75.14	92.338	
5,900.00	5,894.97	20,305.00	12,713.60	17.16	119.18	134.830	216.93	-453.23	6,839.07	6,763.75	75.33	90.789	
6,000.00	5,994.86	20,305.00	12,713.60	17.49	119.18	134.830	216.93	-453.23	6,739.62	6,664.10	75.52	89.245	
6,100.00	6,094.74	20,305.00	12,713.60	17.81	119.18	134.830	216.93	-453.23	6,640.18	6,564.47	75.71	87.705	
6,200.00	6,194.62	20,305.00	12,713.60	18.14	119.18	134.830	216.93	-453.23	6,540.75	6,464.85	75.90	86.171	
6,300.00	6,294.51	20,305.00	12,713.60	18.47	119.18	134.830	216.93	-453.23	6,441.35	6,365.24	76.10	84.642	
6,400.00	6,394.39	20,305.00	12,713.60	18.79	119.18	134.830	216.93	-453.23	6,341.96	6,265.66	76.30	83.119	
6,500.00	6,494.27	20,305.00	12,713.60	19.12	119.18	134.830	216.93	-453.23	6,242.59	6,166.09	76.50	81.601	
6,600.00	6,594.16	20,312.17	12,714.09	19.45	119.27	134.691	209.78	-453.09	6,143.24	6,066.48	76.76	80.028	
6,700.00	6,694.04	20,324.58	12,714.96	19.78	119.44	134.444	197.40	-452.86	6,043.89	5,966.82	77.07	78.421	
6,800.00	6,793.92	20,336.94	12,715.81	20.11	119.60	134.188	185.07	-452.64	5,944.54	5,867.16	77.38	76.824	
6,900.00	6,893.81	20,349.25	12,716.66	20.44	119.77	133.924	172.80	-452.42	5,845.18	5,767.49	77.69	75.237	
7,000.00	6,993.69	20,361.50	12,717.50	20.77	119.93	133.651	160.57	-452.21	5,745.83	5,667.82	78.00	73.660	
7,100.00	7,093.57	20,373.71	12,718.33	21.10	120.10	133.368	148.40	-452.01	5,646.47	5,568.15	78.32	72.094	
7,200.00	7,193.46	20,385.86	12,719.16	21.43	120.26	133.076	136.28	-451.82	5,547.12	5,468.48	78.64	70.538	
7,300.00	7,293.34	20,397.95	12,719.98	21.76	120.42	132.773	124.21	-451.63	5,447.76	5,368.80	78.96	68.992	
7,400.00	7,393.22	20,644.77	12,731.29	22.09	123.73	122.843	-122.25	-446.34	5,348.13	5,266.94	81.19	65.871	
7,500.00	7,493.11	20,731.92	12,732.68	22.42	124.90	115.846	-209.37	-444.53	5,248.32	5,166.19	82.13	63.904	
7,600.00	7,592.99	20,738.78	12,732.74	22.75	124.99	115.160	-216.23	-444.31	5,148.50	5,066.07	82.42	62.465	
7,700.00	7,692.87	20,745.56	12,732.80	23.08	125.09	114.459	-223.01	-444.08	5,048.67	4,965.95	82.72	61.035	
7,800.00	7,792.76	20,752.27	12,732.86	23.41	125.18	113.741	-229.72	-443.83	4,948.85	4,865.83	83.02	59.613	
7,900.00	7,892.64	20,758.91	12,732.91	23.74	125.26	113.006	-236.35	-443.57	4,849.02	4,765.70	83.32	58.199	
8,000.00	7,992.52	20,765.48	12,732.96	24.07	125.35	112.254	-242.91	-443.29	4,749.20	4,665.58	83.62	56.794	
8,100.00	8,092.41	20,771.98	12,733.02	24.40	125.44	111.484	-249.40	-443.00	4,649.37	4,565.45	83.93	55.397	
8,200.00	8,192.29	20,778.86	12,733.07	24.74	125.53	110.639	-256.28	-442.67	4,549.55	4,465.31	84.24	54.007	
8,300.00	8,292.17	20,787.18	12,733.13	25.07	125.64	109.574	-264.59	-442.26	4,449.73	4,365.16	84.57	52.617	
8,400.00	8,392.06	20,795.26	12,733.18	25.40	125.75	108.491	-272.65	-441.83	4,349.91	4,265.01	84.90	51.237	
8,500.00	8,491.94	20,803.11	12,733.23	25.73	125.86	107.390	-280.49	-441.41	4,250.08	4,164.85	85.23	49.867	
8,600.00	8,591.82	20,810.73	12,733.27	26.07	125.96	106.271	-288.10	-440.98	4,150.26	4,064.70	85.56	48.506	
8,700.00	8,691.71	20,818.14	12,733.31	26.40	126.06	105.133	-295.50	-440.55	4,050.43	3,964.54	85.90	47.156	
8,800.00	8,791.59	20,825.35	12,733.34	26.73	126.16	103.978	-302.69	-440.11	3,950.61	3,864.38	86.23	45.814	
8,900.00	8,891.47	20,832.36	12,733.36	27.06	126.25	102.805	-309.69	-439.67	3,850.79	3,764.22	86.57	44.482	
9,000.00	8,991.36	20,839.19	12,733.38	27.40	126.34	101.615	-316.50	-439.23	3,750.97	3,664.06	86.91	43.159	
9,100.00	9,091.24	20,845.83	12,733.40	27.73	126.43	100.408	-323.13	-438.80	3,651.15	3,563.90	87.25	41.846	
9,200.00	9,191.12	20,852.31	12,733.41	28.06	126.52	99.185	-329.59	-438.36	3,551.33	3,463.74	87.60	40.542	
9,300.00	9,291.01	20,858.61	12,733.42	28.40	126.61	97.946	-335.88	-437.92	3,451.52	3,363.58	87.94	39.247	
9,400.00	9,390.89	20,864.75	12,733.43	28.73	126.69	96.692	-342.01	-437.48	3,351.71	3,263.42	88.29	37.961	
9,500.00	9,490.77	20,870.74	12,733.43	29.06	126.77	95.423	-347.98	-437.04	3,251.90	3,163.26	88.65	36.684	
9,600.00	9,590.66	20,882.31	12,733.42	29.40	126.93	92.832	-359.52	-436.20	3,152.10	3,063.05	89.05	35.396	
9,700.00	9,690.54	20,892.73	12,733.39	29.73	127.07	90.332	-369.91	-435.47	3,052.29	2,962.84	89.45	34.123	
9,800.00	9,790.42	20,901.95	12,733.33	30.06	127.19	87.983	-379.11	-434.84	2,952.49	2,862.64	89.85	32.862	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 432H - OH / 68636 - Surveys (H&P 625)													Offset Site Error: 0.00 usft
Survey Program: 154-MWD+HDCM													Offset Well Error: 1.00 usft
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	9,890.31	20,910.17	12,733.27	30.40	127.30	85.778	-387.31	-434.29	2,852.69	2,762.45	90.24	31.613	
10,000.00	9,990.19	20,917.54	12,733.20	30.73	127.40	83.713	-394.67	-433.81	2,752.89	2,662.27	90.63	30.376	
10,100.00	10,090.07	20,924.19	12,733.13	31.07	127.49	81.779	-401.30	-433.39	2,653.11	2,562.09	91.01	29.150	
10,200.00	10,189.96	20,930.22	12,733.06	31.40	127.57	79.969	-407.32	-433.02	2,553.33	2,461.92	91.40	27.934	
10,300.00	10,289.84	20,935.71	12,732.98	31.74	127.65	78.274	-412.80	-432.68	2,453.56	2,361.76	91.80	26.728	
10,400.00	10,389.72	20,940.73	12,732.91	32.07	127.71	76.687	-417.81	-432.38	2,353.81	2,261.62	92.19	25.532	
10,500.00	10,489.60	20,945.33	12,732.83	32.40	127.78	75.201	-422.41	-432.12	2,254.07	2,161.48	92.59	24.345	
10,600.00	10,589.49	20,949.58	12,732.76	32.74	127.83	73.807	-426.64	-431.87	2,154.36	2,061.37	92.99	23.167	
10,700.00	10,689.37	20,953.50	12,732.69	33.07	127.89	72.500	-430.56	-431.65	2,054.66	1,961.26	93.40	21.998	
10,800.00	10,789.25	20,957.14	12,732.62	33.41	127.94	71.272	-434.19	-431.44	1,955.00	1,861.18	93.82	20.838	
10,900.00	10,889.14	20,960.52	12,732.56	33.74	127.98	70.118	-437.57	-431.26	1,855.36	1,761.12	94.25	19.686	
11,000.00	10,989.02	20,963.67	12,732.49	34.08	128.02	69.032	-440.71	-431.09	1,755.77	1,661.08	94.68	18.543	
11,100.00	11,088.90	20,969.69	12,732.36	34.41	128.10	66.932	-446.72	-430.76	1,656.22	1,561.05	95.17	17.403	
11,200.00	11,188.79	20,975.88	12,732.21	34.75	128.19	64.747	-452.89	-430.43	1,556.71	1,461.04	95.67	16.271	
11,300.00	11,288.67	20,980.25	12,732.09	35.08	128.25	63.185	-457.26	-430.20	1,457.27	1,361.09	96.19	15.150	
11,400.00	11,388.55	20,983.51	12,732.00	35.42	128.29	62.016	-460.51	-430.03	1,357.91	1,261.19	96.72	14.039	
11,500.00	11,488.44	20,986.03	12,731.92	35.75	128.33	61.108	-463.03	-429.90	1,258.65	1,161.36	97.29	12.938	
11,600.00	11,588.32	20,988.04	12,731.86	36.09	128.35	60.383	-465.04	-429.80	1,159.51	1,061.62	97.90	11.844	
11,700.00	11,688.20	20,989.68	12,731.80	36.42	128.37	59.791	-466.67	-429.71	1,060.54	961.96	98.57	10.759	
11,800.00	11,788.09	20,991.04	12,731.76	36.76	128.39	59.298	-468.03	-429.64	961.77	862.43	99.34	9.682	
11,900.00	11,887.97	20,992.19	12,731.72	37.09	128.41	58.882	-469.18	-429.58	863.29	763.05	100.24	8.612	
11,908.72	11,896.68	20,992.28	12,731.72	37.12	128.41	58.849	-469.27	-429.58	854.72	754.39	100.33	8.519	
12,000.00	11,987.91	20,991.33	12,731.75	37.41	128.40	51.966	-468.32	-429.63	765.37	664.02	101.35	7.552	
12,047.14	12,035.04	20,989.48	12,731.81	37.47	128.37	-100.238	-466.48	-429.72	719.59	617.59	101.99	7.055	
12,100.00	12,087.91	20,987.04	12,731.89	37.47	128.34	-99.466	-464.04	-429.85	668.53	565.69	102.84	6.501	
12,200.00	12,187.91	20,982.87	12,732.01	37.48	128.28	-98.141	-459.88	-430.07	572.81	467.90	104.91	5.460	
12,300.00	12,287.91	20,979.20	12,732.12	37.48	128.23	-96.969	-456.22	-430.26	478.84	370.83	108.00	4.434	
12,400.00	12,387.91	20,975.94	12,732.21	37.49	128.19	-95.926	-452.96	-430.43	387.86	274.94	112.92	3.435	
12,500.00	12,487.91	20,973.03	12,732.28	37.50	128.15	-94.993	-450.06	-430.58	302.60	181.40	121.20	2.497	
12,547.14	12,535.04	20,971.77	12,732.31	37.49	128.13	-94.586	-448.79	-430.65	265.99	139.12	126.87	2.097	
12,550.00	12,537.91	20,971.70	12,732.31	37.50	128.13	86.325	-448.72	-430.66	263.87	136.61	127.26	2.073	
12,600.00	12,587.83	20,972.99	12,732.28	37.64	128.15	90.674	-450.01	-430.59	229.46	94.65	134.81	1.702	
12,650.00	12,637.36	20,978.69	12,732.13	37.90	128.23	92.225	-455.70	-430.29	201.64	58.43	143.21	1.408 Level 3	
12,700.00	12,686.10	20,988.45	12,731.84	38.17	128.36	91.132	-465.45	-429.78	183.30	32.88	150.41	1.219 Level 3	
12,750.00	12,733.70	21,001.93	12,731.36	38.46	128.54	87.593	-478.90	-429.09	176.88	23.43	153.45	1.153 Level 3	
12,750.29	12,733.97	21,002.02	12,731.36	38.46	128.54	87.565	-478.99	-429.08	176.88	23.42	153.45	1.153 Level 3, CC, ES, SF	
12,800.00	12,779.78	21,018.80	12,730.64	38.75	128.77	81.887	-495.73	-428.25	182.84	31.80	151.04	1.211 Level 3	
12,850.00	12,824.00	21,038.93	12,729.61	39.03	129.04	74.457	-515.82	-427.29	199.09	54.06	145.03	1.373 Level 3	
12,900.00	12,866.02	21,063.63	12,728.25	39.31	129.37	65.710	-540.45	-426.12	222.23	83.94	138.29	1.607	
12,950.00	12,905.52	21,092.02	12,726.69	39.57	129.76	56.885	-568.76	-424.78	249.06	116.69	132.36	1.882	
13,000.00	12,942.21	21,094.00	12,726.58	39.82	129.79	53.467	-570.74	-424.69	278.85	152.34	126.50	2.204	
13,050.00	12,975.79	21,094.00	12,726.58	40.06	129.79	49.984	-570.74	-424.69	312.02	190.50	121.52	2.568	
13,100.00	13,006.02	21,094.00	12,726.58	40.27	129.79	46.256	-570.74	-424.69	347.40	229.95	117.44	2.958	
13,150.00	13,032.66	21,094.00	12,726.58	40.46	129.79	42.469	-570.74	-424.69	384.14	270.04	114.10	3.367	
13,200.00	13,055.52	21,094.00	12,726.58	40.63	129.79	38.778	-570.74	-424.69	421.65	310.33	111.32	3.788	
13,250.00	13,074.42	21,094.00	12,726.58	40.77	129.79	35.294	-570.74	-424.69	459.49	350.55	108.94	4.218	
13,300.00	13,089.21	21,094.00	12,726.58	40.89	129.79	32.085	-570.74	-424.69	497.33	390.46	106.86	4.654	
13,350.00	13,099.79	21,094.00	12,726.58	40.99	129.79	29.184	-570.74	-424.69	534.91	429.90	105.01	5.094	
13,400.00	13,106.06	21,094.00	12,726.58	41.06	129.79	26.595	-570.74	-424.69	572.02	468.71	103.31	5.537	
13,447.14	13,108.00	21,094.00	12,726.58	41.11	129.79	24.428	-570.74	-424.69	606.43	504.60	101.82	5.956	
13,500.00	13,108.00	21,094.00	12,726.58	41.15	129.79	24.428	-570.74	-424.69	645.68	545.43	100.25	6.441	
13,600.00	13,108.00	21,094.00	12,726.58	41.25	129.79	24.428	-570.74	-424.69	724.69	627.00	97.69	7.418	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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			
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)	Ellipses (usft)			Minimum Separation (usft)	
13,700.00	13,108.00	21,094.00	12,726.58	41.37	129.79	24.428	-570.74	-424.69	808.36	712.71	95.65	8.452		
13,800.00	13,108.00	21,094.00	12,726.58	41.51	129.79	24.428	-570.74	-424.69	895.38	801.37	94.01	9.524		
13,900.00	13,108.00	21,094.00	12,726.58	41.67	129.79	24.428	-570.74	-424.69	984.88	892.17	92.70	10.624		
14,000.00	13,108.00	21,094.00	12,726.58	41.87	129.79	24.428	-570.74	-424.69	1,076.22	984.57	91.65	11.743		
14,100.00	13,108.00	21,094.00	12,726.58	42.10	129.79	24.428	-570.74	-424.69	1,168.98	1,078.18	90.80	12.875		
14,200.00	13,108.00	21,094.00	12,726.58	42.37	129.79	24.428	-570.74	-424.69	1,262.85	1,172.75	90.10	14.016		
14,300.00	13,108.00	21,094.00	12,726.58	42.69	129.79	24.428	-570.74	-424.69	1,357.59	1,268.06	89.53	15.164		
14,400.00	13,108.00	21,094.00	12,726.58	43.06	129.79	24.428	-570.74	-424.69	1,453.04	1,363.99	89.05	16.317		
14,500.00	13,108.00	21,094.00	12,726.58	43.48	129.79	24.428	-570.74	-424.69	1,549.06	1,460.40	88.66	17.473		
14,600.00	13,108.00	21,094.00	12,726.58	43.97	129.79	24.428	-570.74	-424.69	1,645.56	1,557.23	88.33	18.631		
14,700.00	13,108.00	21,094.00	12,726.58	44.53	129.79	24.428	-570.74	-424.69	1,742.45	1,654.40	88.05	19.790		
14,800.00	13,108.00	21,094.00	12,726.58	45.16	129.79	24.428	-570.74	-424.69	1,839.67	1,751.86	87.81	20.950		
14,900.00	13,108.00	21,094.00	12,726.58	45.87	129.79	24.428	-570.74	-424.69	1,937.18	1,849.57	87.61	22.111		
15,000.00	13,108.00	21,094.00	12,726.58	46.64	129.79	24.428	-570.74	-424.69	2,034.93	1,947.48	87.44	23.271		
15,100.00	13,108.00	21,094.00	12,726.58	47.49	129.79	24.428	-570.74	-424.69	2,132.88	2,045.58	87.30	24.431		
15,200.00	13,108.00	21,094.00	12,726.58	48.39	129.79	24.428	-570.74	-424.69	2,231.02	2,143.84	87.18	25.591		
15,300.00	13,108.00	21,094.00	12,726.58	49.36	129.79	24.428	-570.74	-424.69	2,329.32	2,242.24	87.08	26.749		
15,400.00	13,108.00	21,094.00	12,726.58	50.38	129.79	24.428	-570.74	-424.69	2,427.76	2,340.76	87.00	27.907		
15,500.00	13,108.00	21,094.00	12,726.58	51.44	129.79	24.428	-570.74	-424.69	2,526.32	2,439.39	86.93	29.063		
15,600.00	13,108.00	21,094.00	12,726.58	52.54	129.79	24.428	-570.74	-424.69	2,624.98	2,538.11	86.87	30.218		
15,700.00	13,108.00	21,094.00	12,726.58	53.67	129.79	24.428	-570.74	-424.69	2,723.75	2,636.93	86.82	31.371		
15,800.00	13,108.00	21,094.00	12,726.58	54.84	129.79	24.428	-570.74	-424.69	2,822.60	2,735.81	86.79	32.523		
15,900.00	13,108.00	21,094.00	12,726.58	56.02	129.79	24.428	-570.74	-424.69	2,921.53	2,834.77	86.76	33.673		
16,000.00	13,108.00	21,094.00	12,726.58	57.24	129.79	24.428	-570.74	-424.69	3,020.53	2,933.79	86.74	34.822		
16,100.00	13,108.00	21,094.00	12,726.58	58.47	129.79	24.428	-570.74	-424.69	3,119.60	3,032.87	86.73	35.969		
16,200.00	13,108.00	21,094.00	12,726.58	59.71	129.79	24.428	-570.74	-424.69	3,218.72	3,131.99	86.73	37.114		
16,300.00	13,108.00	21,094.00	12,726.58	60.97	129.79	24.428	-570.74	-424.69	3,317.89	3,231.17	86.73	38.257		
16,400.00	13,108.00	21,094.00	12,726.58	62.25	129.79	24.428	-570.74	-424.69	3,417.12	3,330.38	86.73	39.398		
16,500.00	13,108.00	21,094.00	12,726.58	63.53	129.79	24.428	-570.74	-424.69	3,516.38	3,429.64	86.75	40.536		
16,600.00	13,108.00	21,094.00	12,726.58	64.83	129.79	24.428	-570.74	-424.69	3,615.69	3,528.93	86.76	41.673		
16,700.00	13,108.00	21,094.00	12,726.58	66.13	129.79	24.428	-570.74	-424.69	3,715.04	3,628.25	86.78	42.808		
16,800.00	13,108.00	21,094.00	12,726.58	67.45	129.79	24.428	-570.74	-424.69	3,814.41	3,727.61	86.81	43.940		
16,900.00	13,108.00	21,094.00	12,726.58	68.77	129.79	24.428	-570.74	-424.69	3,913.82	3,826.99	86.84	45.070		
17,000.00	13,108.00	21,094.00	12,726.58	70.10	129.79	24.428	-570.74	-424.69	4,013.26	3,926.39	86.87	46.198		
17,100.00	13,108.00	21,094.00	12,726.58	71.43	129.79	24.428	-570.74	-424.69	4,112.73	4,025.82	86.91	47.323		
17,200.00	13,108.00	21,094.00	12,726.58	72.77	129.79	24.428	-570.74	-424.69	4,212.22	4,125.28	86.95	48.446		
17,300.00	13,108.00	21,094.00	12,726.58	74.11	129.79	24.428	-570.74	-424.69	4,311.74	4,224.75	86.99	49.567		
17,400.00	13,108.00	21,094.00	12,726.58	75.46	129.79	24.428	-570.74	-424.69	4,411.28	4,324.24	87.03	50.684		
17,500.00	13,108.00	21,094.00	12,726.58	76.81	129.79	24.428	-570.74	-424.69	4,510.84	4,423.75	87.08	51.800		
17,600.00	13,108.00	21,094.00	12,726.58	78.17	129.79	24.428	-570.74	-424.69	4,610.41	4,523.28	87.13	52.913		
17,700.00	13,108.00	21,094.00	12,726.58	79.53	129.79	24.428	-570.74	-424.69	4,710.01	4,622.82	87.19	54.023		
17,800.00	13,108.00	21,094.00	12,726.58	80.89	129.79	24.428	-570.74	-424.69	4,809.62	4,722.38	87.24	55.130		
17,900.00	13,108.00	21,094.00	12,726.58	82.26	129.79	24.428	-570.74	-424.69	4,909.25	4,821.95	87.30	56.235		
18,000.00	13,108.00	21,094.00	12,726.58	83.63	129.79	24.428	-570.74	-424.69	5,008.89	4,921.53	87.36	57.337		
18,100.00	13,108.00	21,094.00	12,726.58	85.00	129.79	24.428	-570.74	-424.69	5,108.55	5,021.12	87.42	58.436		
18,200.00	13,108.00	21,094.00	12,726.58	86.38	129.79	24.428	-570.74	-424.69	5,208.22	5,120.73	87.49	59.532		
18,300.00	13,108.00	21,094.00	12,726.58	87.76	129.79	24.428	-570.74	-424.69	5,307.90	5,220.35	87.55	60.626		
18,400.00	13,108.00	21,094.00	12,726.58	89.14	129.79	24.428	-570.74	-424.69	5,407.59	5,319.97	87.62	61.716		
18,500.00	13,108.00	21,094.00	12,726.58	90.52	129.79	24.428	-570.74	-424.69	5,507.30	5,419.61	87.69	62.804		
18,600.00	13,108.00	21,094.00	12,726.58	91.90	129.79	24.428	-570.74	-424.69	5,607.01	5,519.25	87.76	63.889		
18,700.00	13,108.00	21,094.00	12,726.58	93.29	129.79	24.428	-570.74	-424.69	5,706.74	5,618.90	87.84	64.971		
18,800.00	13,108.00	21,094.00	12,726.58	94.68	129.79	24.428	-570.74	-424.69	5,806.47	5,718.56	87.91	66.049		

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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:													
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
18,900.00	13,108.00	21,094.00	12,726.58	96.06	129.79	24.428	-570.74	-424.69	5,906.22	5,818.23	87.99	67.125	
19,000.00	13,108.00	21,094.00	12,726.58	97.46	129.79	24.428	-570.74	-424.69	6,005.97	5,917.90	88.07	68.198	
19,100.00	13,108.00	21,094.00	12,726.58	98.85	129.79	24.428	-570.74	-424.69	6,105.73	6,017.58	88.15	69.267	
19,200.00	13,108.00	21,094.00	12,726.58	100.24	129.79	24.428	-570.74	-424.69	6,205.50	6,117.27	88.23	70.334	
19,300.00	13,108.00	21,094.00	12,726.58	101.64	129.79	24.428	-570.74	-424.69	6,305.27	6,216.96	88.31	71.397	
19,400.00	13,108.00	21,094.00	12,726.58	103.03	129.79	24.428	-570.74	-424.69	6,405.06	6,316.66	88.40	72.457	
19,500.00	13,108.00	21,094.00	12,726.58	104.43	129.79	24.428	-570.74	-424.69	6,504.84	6,416.36	88.48	73.514	
19,600.00	13,108.00	21,094.00	12,726.58	105.83	129.79	24.428	-570.74	-424.69	6,604.64	6,516.07	88.57	74.568	
19,700.00	13,108.00	21,094.00	12,726.58	107.23	129.79	24.428	-570.74	-424.69	6,704.44	6,615.78	88.66	75.618	
19,800.00	13,108.00	21,094.00	12,726.58	108.63	129.79	24.428	-570.74	-424.69	6,804.25	6,715.50	88.75	76.666	
19,900.00	13,108.00	21,094.00	12,726.58	110.03	129.79	24.428	-570.74	-424.69	6,904.06	6,815.22	88.84	77.710	
20,000.00	13,108.00	21,094.00	12,726.58	111.43	129.79	24.428	-570.74	-424.69	7,003.88	6,914.94	88.94	78.750	
20,100.00	13,108.00	21,094.00	12,726.58	112.84	129.79	24.428	-570.74	-424.69	7,103.70	7,014.67	89.03	79.788	
20,200.00	13,108.00	21,094.00	12,726.58	114.24	129.79	24.428	-570.74	-424.69	7,203.53	7,114.40	89.13	80.822	
20,300.00	13,108.00	21,094.00	12,726.58	115.65	129.79	24.428	-570.74	-424.69	7,303.37	7,214.14	89.23	81.853	
20,400.00	13,108.00	21,094.00	12,726.58	117.05	129.79	24.428	-570.74	-424.69	7,403.20	7,313.88	89.32	82.880	
20,500.00	13,108.00	21,094.00	12,726.58	118.46	129.79	24.428	-570.74	-424.69	7,503.04	7,413.62	89.42	83.904	
20,600.00	13,108.00	21,094.00	12,726.58	119.87	129.79	24.428	-570.74	-424.69	7,602.89	7,513.37	89.53	84.924	
20,700.00	13,108.00	21,094.00	12,726.58	121.28	129.79	24.428	-570.74	-424.69	7,702.74	7,613.11	89.63	85.941	
20,800.00	13,108.00	21,094.00	12,726.58	122.68	129.79	24.428	-570.74	-424.69	7,802.59	7,712.86	89.73	86.955	
20,900.00	13,108.00	21,094.00	12,726.58	124.09	129.79	24.428	-570.74	-424.69	7,902.45	7,812.62	89.84	87.965	
21,000.00	13,108.00	21,094.00	12,726.58	125.51	129.79	24.428	-570.74	-424.69	8,002.31	7,912.37	89.94	88.972	
21,100.00	13,108.00	21,094.00	12,726.58	126.92	129.79	24.428	-570.74	-424.69	8,102.18	8,012.13	90.05	89.976	
21,200.00	13,108.00	21,094.00	12,726.58	128.33	129.79	24.428	-570.74	-424.69	8,202.05	8,111.89	90.16	90.976	
21,300.00	13,108.00	21,094.00	12,726.58	129.74	129.79	24.428	-570.74	-424.69	8,301.92	8,211.65	90.27	91.972	
21,400.00	13,108.00	21,094.00	12,726.58	131.15	129.79	24.428	-570.74	-424.69	8,401.79	8,311.42	90.38	92.965	
21,500.00	13,108.00	21,094.00	12,726.58	132.57	129.79	24.428	-570.74	-424.69	8,501.67	8,411.18	90.49	93.954	
21,600.00	13,108.00	21,094.00	12,726.58	133.98	129.79	24.428	-570.74	-424.69	8,601.55	8,510.95	90.60	94.940	
21,700.00	13,108.00	21,094.00	12,726.58	135.39	129.79	24.428	-570.74	-424.69	8,701.43	8,610.72	90.71	95.922	
21,800.00	13,108.00	21,094.00	12,726.58	136.81	129.79	24.428	-570.74	-424.69	8,801.32	8,710.49	90.83	96.901	
21,900.00	13,108.00	21,094.00	12,726.58	138.22	129.79	24.428	-570.74	-424.69	8,901.20	8,810.26	90.94	97.877	
22,000.00	13,108.00	21,094.00	12,726.58	139.64	129.79	24.428	-570.74	-424.69	9,001.09	8,910.03	91.06	98.848	
22,100.00	13,108.00	21,094.00	12,726.58	141.06	129.79	24.428	-570.74	-424.69	9,100.99	9,009.81	91.18	99.816	
22,200.00	13,108.00	21,094.00	12,726.58	142.47	129.79	24.428	-570.74	-424.69	9,200.88	9,109.59	91.30	100.781	
22,300.00	13,108.00	21,094.00	12,726.58	143.89	129.79	24.428	-570.74	-424.69	9,300.78	9,209.36	91.42	101.742	
22,400.00	13,108.00	21,094.00	12,726.58	145.31	129.79	24.428	-570.74	-424.69	9,400.68	9,309.14	91.54	102.700	
22,500.00	13,108.00	21,094.00	12,726.58	146.72	129.79	24.428	-570.74	-424.69	9,500.58	9,408.92	91.66	103.654	
22,600.00	13,108.00	21,094.00	12,726.58	148.14	129.79	24.428	-570.74	-424.69	9,600.49	9,508.71	91.78	104.604	
22,700.00	13,108.00	21,094.00	12,726.58	149.56	129.79	24.428	-570.74	-424.69	9,700.39	9,608.49	91.90	105.551	
22,800.00	13,108.00	21,094.00	12,726.58	150.98	129.79	24.428	-570.74	-424.69	9,800.30	9,708.27	92.03	106.494	
22,900.00	13,108.00	21,094.00	12,726.58	152.40	129.79	24.428	-570.74	-424.69	9,900.21	9,808.06	92.15	107.433	
23,000.00	13,108.00	21,094.00	12,726.58	153.82	129.79	24.428	-570.74	-424.69	10,000.12	9,907.84	92.28	108.369	
23,100.00	13,108.00	21,094.00	12,726.58	155.24	129.79	24.428	-570.74	-424.69	10,100.03	10,007.63	92.40	109.302	
23,200.00	13,108.00	21,094.00	12,726.58	156.66	129.79	24.428	-570.74	-424.69	10,199.95	10,107.41	92.53	110.231	
23,247.14	13,108.00	21,094.00	12,726.58	157.33	129.79	24.428	-570.74	-424.69	10,247.04	10,154.45	92.59	110.667	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 433H - OH / 68696 - Surveys (H&P 656)													Offset Site Error: 0.00 usft
Survey Program: 188-MWD+HDGM													Offset Well Error: 1.00 usft
Rule Assigned:													Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	51.43	-2.57	1.00	1.00	8.073	7,916.33	1,122.87	7,995.57				
100.00	100.00	146.67	92.67	1.08	1.03	8.076	7,916.33	1,123.26	7,995.63	7,993.52	2.11	3,790.554	
200.00	200.00	232.98	178.97	1.60	1.10	8.080	7,916.37	1,123.89	7,995.78	7,993.09	2.70	2,966.399	
300.00	300.00	312.44	258.44	2.01	1.24	8.085	7,916.59	1,124.56	7,996.17	7,992.92	3.25	2,459.844	
400.00	400.00	401.86	347.85	2.35	1.45	8.090	7,917.03	1,125.38	7,996.78	7,992.97	3.81	2,100.866	
500.00	500.00	496.26	442.24	2.65	1.72	8.097	7,917.54	1,126.41	7,997.47	7,993.10	4.37	1,830.392	
600.00	600.00	577.50	523.47	2.93	1.96	8.104	7,918.06	1,127.41	7,998.29	7,993.40	4.89	1,637.023	
700.00	700.00	654.30	600.27	3.18	2.20	8.110	7,918.77	1,128.42	7,999.39	7,994.01	5.38	1,487.302	
800.00	800.00	728.85	674.80	3.41	2.44	8.116	7,919.69	1,129.36	8,000.79	7,994.93	5.85	1,367.343	
900.00	900.00	800.25	746.19	3.64	2.67	8.114	7,920.95	1,129.29	8,002.53	7,996.23	6.30	1,270.026	
1,000.00	1,000.00	882.00	827.90	3.85	2.93	8.101	7,922.92	1,127.80	8,004.64	7,997.86	6.78	1,181.166	
1,100.00	1,100.00	950.23	896.07	4.05	3.15	8.085	7,924.89	1,125.76	8,007.05	7,999.85	7.20	1,112.161	
1,200.00	1,200.00	1,030.06	975.81	4.24	3.42	8.063	7,927.44	1,122.97	8,009.72	8,002.07	7.65	1,046.454	
1,300.00	1,300.00	1,125.35	1,170.83	4.43	4.07	7.998	7,933.39	1,114.65	8,012.36	8,003.86	8.50	943.129	
1,400.00	1,400.00	1,451.24	1,396.64	4.61	4.84	7.968	7,935.56	1,110.74	8,012.92	8,003.47	9.44	848.395	
1,500.00	1,500.00	1,549.88	1,495.28	4.78	5.18	7.970	7,935.58	1,110.97	8,012.97	8,003.01	9.96	804.790	
1,600.00	1,599.98	1,649.46	1,594.86	4.99	5.52	157.771	7,935.65	1,110.91	8,014.65	8,004.17	10.48	764.772	
1,638.42	1,638.36	1,688.23	1,633.63	5.04	5.65	157.763	7,935.68	1,110.87	8,016.15	8,005.49	10.66	751.812	
1,700.00	1,699.87	1,750.37	1,695.77	5.10	5.87	157.771	7,935.72	1,110.83	8,018.94	8,008.00	10.94	733.284	
1,800.00	1,799.76	1,866.13	1,811.53	5.26	6.27	157.784	7,935.75	1,110.52	8,023.41	8,011.92	11.49	698.542	
1,900.00	1,899.64	1,995.22	1,940.60	5.44	6.71	157.786	7,935.62	1,108.43	8,027.55	8,015.44	12.11	662.984	
2,000.00	1,999.52	2,057.97	2,003.33	5.64	6.93	157.783	7,935.69	1,106.88	8,031.77	8,019.26	12.51	641.814	
2,100.00	2,099.41	2,124.66	2,070.00	5.84	7.16	157.779	7,936.05	1,105.03	8,036.40	8,023.46	12.94	620.830	
2,200.00	2,199.29	2,203.25	2,148.55	6.07	7.43	157.771	7,936.84	1,102.64	8,041.43	8,028.00	13.43	598.903	
2,300.00	2,299.17	2,325.41	2,270.66	6.30	7.86	157.762	7,937.92	1,099.28	8,046.39	8,032.32	14.07	571.776	
2,400.00	2,399.06	2,366.00	2,311.23	6.54	8.00	157.760	7,938.18	1,098.31	8,051.42	8,036.98	14.44	557.567	
2,500.00	2,498.94	2,463.56	2,408.75	6.79	8.35	157.753	7,939.24	1,095.64	8,056.59	8,041.57	15.02	536.486	
2,600.00	2,598.82	2,555.00	2,500.11	7.04	8.67	157.740	7,941.11	1,092.33	8,062.55	8,046.97	15.58	517.520	
2,700.00	2,698.71	2,595.47	2,540.53	7.31	8.81	157.733	7,942.12	1,090.73	8,068.75	8,052.79	15.97	505.351	
2,800.00	2,798.59	2,688.52	2,633.49	7.58	9.14	157.719	7,944.47	1,087.41	8,075.22	8,058.68	16.55	488.000	
2,900.00	2,898.47	2,779.94	2,724.84	7.85	9.47	157.709	7,946.79	1,084.60	8,081.78	8,064.65	17.13	471.858	
3,000.00	2,998.36	2,868.94	2,813.79	8.13	9.79	157.702	7,949.10	1,082.28	8,088.46	8,070.76	17.70	456.889	
3,100.00	3,098.24	2,957.86	2,902.65	8.41	10.10	157.698	7,951.48	1,080.33	8,095.28	8,076.99	18.28	442.778	
3,200.00	3,198.12	3,046.54	2,991.26	8.70	10.42	157.689	7,954.05	1,077.85	8,102.23	8,083.36	18.87	429.469	
3,300.00	3,298.01	3,136.05	3,080.66	8.99	10.74	157.674	7,956.89	1,074.46	8,109.31	8,089.86	19.45	416.833	
3,400.00	3,397.89	3,231.08	3,175.57	9.28	11.08	157.658	7,960.00	1,070.74	8,116.49	8,096.42	20.07	404.465	
3,500.00	3,497.77	3,312.00	3,256.39	9.58	11.37	157.645	7,962.66	1,067.83	8,123.73	8,103.10	20.63	393.763	
3,600.00	3,597.66	3,390.66	3,334.96	9.88	11.65	157.635	7,965.40	1,065.35	8,131.22	8,110.04	21.19	383.757	
3,700.00	3,697.54	3,459.11	3,403.33	10.18	11.90	157.629	7,968.01	1,063.56	8,139.11	8,117.40	21.71	374.891	
3,800.00	3,797.42	3,554.84	3,498.96	10.49	12.24	157.623	7,971.92	1,061.46	8,147.31	8,124.98	22.33	364.781	
3,900.00	3,897.31	3,693.77	3,637.74	10.79	12.74	157.610	7,977.24	1,057.68	8,155.20	8,132.08	23.12	352.739	
4,000.00	3,997.19	3,785.00	3,728.87	11.10	13.07	157.599	7,980.62	1,054.95	8,162.92	8,139.19	23.73	343.968	
4,100.00	4,097.07	3,886.49	3,830.25	11.41	13.43	157.589	7,984.39	1,052.07	8,170.68	8,146.30	24.38	335.099	
4,200.00	4,196.96	4,030.94	3,974.54	11.72	13.95	157.573	7,989.53	1,047.90	8,178.33	8,153.14	25.19	324.617	
4,300.00	4,296.84	4,225.01	4,168.31	12.03	14.65	157.528	7,994.66	1,038.51	8,184.60	8,158.41	26.19	312.544	
4,400.00	4,396.72	4,326.81	4,269.95	12.35	15.02	157.502	7,996.99	1,033.13	8,190.62	8,163.77	26.84	305.116	
4,500.00	4,496.61	4,436.63	4,379.59	12.66	15.42	157.475	7,999.41	1,027.51	8,196.58	8,169.04	27.53	297.712	
4,600.00	4,596.49	20,816.00	12,700.50	12.98	124.17	-136.352	-120.18	917.44	8,164.39	8,086.74	77.65	105.146	
4,700.00	4,696.37	20,816.00	12,700.50	13.29	124.17	-136.352	-120.18	917.44	8,065.55	7,987.71	77.84	103.611	
4,800.00	4,796.26	20,816.00	12,700.50	13.61	124.17	-136.352	-120.18	917.44	7,966.75	7,888.71	78.05	102.079	
4,900.00	4,896.14	20,816.00	12,700.50	13.93	124.17	-136.352	-120.18	917.44	7,867.98	7,789.73	78.25	100.549	
5,000.00	4,996.02	20,816.00	12,700.50	14.25	124.17	-136.352	-120.18	917.44	7,769.24	7,690.78	78.46	99.023	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 433H - OH / 68696 - Surveys (H&P 656)												Offset Site Error:	0.00 usft
Survey Program: 188-MWD+HDCM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	5,095.91	20,816.00	12,700.50	14.57	124.17	-136.352	-120.18	917.44	7,670.53	7,591.86	78.67	97.500	
5,200.00	5,195.79	20,816.00	12,700.50	14.89	124.17	-136.352	-120.18	917.44	7,571.85	7,492.96	78.89	95.981	
5,300.00	5,295.67	20,816.00	12,700.50	15.21	124.17	-136.352	-120.18	917.44	7,473.21	7,394.10	79.11	94.465	
5,400.00	5,395.56	20,816.00	12,700.50	15.54	124.17	-136.352	-120.18	917.44	7,374.61	7,295.27	79.34	92.953	
5,500.00	5,495.44	20,816.00	12,700.50	15.86	124.17	-136.352	-120.18	917.44	7,276.04	7,196.48	79.57	91.444	
5,600.00	5,595.32	20,816.00	12,700.50	16.19	124.17	-136.352	-120.18	917.44	7,177.52	7,097.71	79.80	89.940	
5,700.00	5,695.21	20,816.00	12,700.50	16.51	124.17	-136.352	-120.18	917.44	7,079.03	6,998.99	80.04	88.439	
5,800.00	5,795.09	20,816.00	12,700.50	16.83	124.17	-136.352	-120.18	917.44	6,980.59	6,900.30	80.29	86.943	
5,900.00	5,894.97	20,816.00	12,700.50	17.16	124.17	-136.352	-120.18	917.44	6,882.20	6,801.66	80.54	85.451	
6,000.00	5,994.86	20,816.00	12,700.50	17.49	124.17	-136.352	-120.18	917.44	6,783.85	6,703.05	80.80	83.963	
6,100.00	6,094.74	20,816.00	12,700.50	17.81	124.17	-136.352	-120.18	917.44	6,685.55	6,604.49	81.06	82.480	
6,200.00	6,194.62	20,816.00	12,700.50	18.14	124.17	-136.352	-120.18	917.44	6,587.30	6,505.98	81.32	81.002	
6,300.00	6,294.51	20,816.00	12,700.50	18.47	124.17	-136.352	-120.18	917.44	6,489.10	6,407.51	81.60	79.528	
6,400.00	6,394.39	20,816.00	12,700.50	18.79	124.17	-136.352	-120.18	917.44	6,390.96	6,309.09	81.87	78.059	
6,500.00	6,494.27	20,816.00	12,700.50	19.12	124.17	-136.352	-120.18	917.44	6,292.88	6,210.72	82.16	76.595	
6,600.00	6,594.16	20,816.00	12,700.50	19.45	124.17	-136.352	-120.18	917.44	6,194.86	6,112.41	82.45	75.136	
6,700.00	6,694.04	20,816.00	12,700.50	19.78	124.17	-136.352	-120.18	917.44	6,096.91	6,014.16	82.75	73.682	
6,800.00	6,793.92	20,816.00	12,700.50	20.11	124.17	-136.352	-120.18	917.44	5,999.02	5,915.97	83.05	72.233	
6,900.00	6,893.81	20,816.00	12,700.50	20.44	124.17	-136.352	-120.18	917.44	5,901.20	5,817.84	83.36	70.790	
7,000.00	6,993.69	20,816.00	12,700.50	20.77	124.17	-136.352	-120.18	917.44	5,803.46	5,719.78	83.68	69.353	
7,100.00	7,093.57	20,816.00	12,700.50	21.10	124.17	-136.352	-120.18	917.44	5,705.80	5,621.79	84.01	67.921	
7,200.00	7,193.46	20,816.00	12,700.50	21.43	124.17	-136.352	-120.18	917.44	5,608.21	5,523.87	84.34	66.495	
7,300.00	7,293.34	20,816.00	12,700.50	21.76	124.17	-136.352	-120.18	917.44	5,510.72	5,426.04	84.68	65.074	
7,400.00	7,393.22	20,816.00	12,700.50	22.09	124.17	-136.352	-120.18	917.44	5,413.32	5,328.28	85.04	63.660	
7,500.00	7,493.11	20,816.00	12,700.50	22.42	124.17	-136.352	-120.18	917.44	5,316.01	5,230.61	85.40	62.252	
7,600.00	7,592.99	20,816.00	12,700.50	22.75	124.17	-136.352	-120.18	917.44	5,218.80	5,133.04	85.77	60.849	
7,700.00	7,692.87	20,816.00	12,700.50	23.08	124.17	-136.352	-120.18	917.44	5,121.70	5,035.56	86.15	59.454	
7,800.00	7,792.76	20,816.00	12,700.50	23.41	124.17	-136.352	-120.18	917.44	5,024.72	4,938.18	86.54	58.064	
7,900.00	7,892.64	20,840.14	12,700.45	23.74	124.49	-135.246	-144.16	920.14	4,927.75	4,840.59	87.16	56.537	
8,000.00	7,992.52	20,842.47	12,700.45	24.07	124.52	-135.139	-146.49	920.36	4,830.99	4,743.39	87.60	55.151	
8,100.00	8,092.41	20,844.93	12,700.46	24.40	124.56	-135.027	-148.93	920.60	4,734.36	4,646.32	88.05	53.772	
8,200.00	8,192.29	20,847.51	12,700.48	24.74	124.59	-134.908	-151.50	920.83	4,637.88	4,549.37	88.51	52.399	
8,300.00	8,292.17	20,850.23	12,700.50	25.07	124.63	-134.784	-154.22	921.08	4,541.55	4,452.55	88.99	51.034	
8,400.00	8,392.06	20,853.11	12,700.52	25.40	124.67	-134.652	-157.08	921.32	4,445.37	4,355.88	89.49	49.675	
8,500.00	8,491.94	20,856.15	12,700.55	25.73	124.71	-134.512	-160.11	921.58	4,349.36	4,259.36	90.00	48.324	
8,600.00	8,591.82	20,859.37	12,700.58	26.07	124.75	-134.364	-163.32	921.83	4,253.54	4,163.00	90.54	46.981	
8,700.00	8,691.71	20,862.79	12,700.62	26.40	124.80	-134.208	-166.73	922.09	4,157.90	4,066.81	91.09	45.645	
8,800.00	8,791.59	20,866.42	12,700.67	26.73	124.85	-134.041	-170.35	922.35	4,062.48	3,970.81	91.67	44.317	
8,900.00	8,891.47	20,870.28	12,700.72	27.06	124.90	-133.864	-174.20	922.61	3,967.27	3,875.00	92.27	42.997	
9,000.00	8,991.36	20,874.41	12,700.79	27.40	124.95	-133.674	-178.32	922.87	3,872.30	3,779.40	92.89	41.685	
9,100.00	9,091.24	20,878.82	12,700.87	27.73	125.01	-133.472	-182.72	923.13	3,777.58	3,684.03	93.55	40.382	
9,200.00	9,191.12	20,883.54	12,700.97	28.06	125.08	-133.255	-187.43	923.39	3,683.13	3,588.90	94.23	39.087	
9,300.00	9,291.01	20,888.61	12,701.08	28.40	125.15	-133.022	-192.50	923.63	3,588.98	3,494.04	94.94	37.802	
9,400.00	9,390.89	20,894.07	12,701.21	28.73	125.22	-132.771	-197.96	923.86	3,495.14	3,399.45	95.69	36.525	
9,500.00	9,490.77	20,899.97	12,701.37	29.06	125.30	-132.499	-203.85	924.08	3,401.64	3,305.16	96.48	35.259	
9,600.00	9,590.66	20,906.36	12,701.56	29.40	125.38	-132.205	-210.23	924.27	3,308.51	3,211.20	97.30	34.002	
9,700.00	9,690.54	20,910.00	12,701.67	29.73	125.43	-132.038	-213.87	924.36	3,215.78	3,117.63	98.15	32.765	
9,800.00	9,790.42	20,910.00	12,701.67	30.06	125.43	-132.038	-213.87	924.36	3,123.49	3,024.49	99.00	31.551	
9,900.00	9,890.31	20,910.00	12,701.67	30.40	125.43	-132.038	-213.87	924.36	3,031.69	2,931.79	99.90	30.347	
10,000.00	9,990.19	20,927.53	12,702.30	30.73	125.67	-131.230	-231.38	924.67	2,940.35	2,839.35	101.01	29.111	
10,100.00	10,090.07	20,933.19	12,702.52	31.07	125.75	-130.968	-237.03	924.74	2,849.62	2,747.56	102.06	27.920	
10,200.00	10,189.96	20,939.15	12,702.77	31.40	125.83	-130.693	-242.99	924.80	2,759.51	2,656.33	103.19	26.743	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 433H - OH / 68696 - Surveys (H&P 656)												Offset Site Error:	0.00 usft
Survey Program: 188-MWD+HDCM												Offset 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 (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,300.00	10,289.84	20,945.44	12,703.05	31.74	125.91	-130.401	-249.28	924.84	2,670.09	2,565.71	104.38	25.581	
10,400.00	10,389.72	20,952.09	12,703.35	32.07	126.00	-130.093	-255.92	924.87	2,581.42	2,475.77	105.64	24.435	
10,500.00	10,489.60	20,959.14	12,703.70	32.40	126.09	-129.766	-262.96	924.88	2,493.58	2,386.59	106.99	23.306	
10,600.00	10,589.49	20,966.61	12,704.08	32.74	126.19	-129.419	-270.42	924.85	2,406.67	2,298.23	108.43	22.195	
10,700.00	10,689.37	20,974.55	12,704.51	33.07	126.30	-129.050	-278.35	924.80	2,320.77	2,210.80	109.97	21.104	
10,800.00	10,789.25	20,983.00	12,704.99	33.41	126.41	-128.656	-286.78	924.72	2,236.02	2,124.41	111.61	20.034	
10,900.00	10,889.14	20,992.01	12,705.54	33.74	126.54	-128.236	-295.78	924.59	2,152.53	2,039.16	113.37	18.988	
11,000.00	10,989.02	21,004.00	12,706.31	34.08	126.70	-127.676	-307.74	924.36	2,070.46	1,955.20	115.26	17.964	
11,100.00	11,088.90	21,014.04	12,706.97	34.41	126.83	-127.207	-317.76	924.13	1,989.97	1,872.71	117.26	16.971	
11,200.00	11,188.79	21,027.01	12,707.82	34.75	127.01	-126.598	-330.70	923.83	1,911.26	1,791.85	119.41	16.006	
11,300.00	11,288.67	21,039.82	12,708.64	35.08	127.18	-125.996	-343.47	923.52	1,834.54	1,712.85	121.69	15.075	
11,400.00	11,388.55	21,052.45	12,709.45	35.42	127.35	-125.400	-356.08	923.20	1,760.08	1,635.97	124.11	14.182	
11,500.00	11,488.44	21,064.92	12,710.24	35.75	127.51	-124.810	-368.51	922.88	1,688.19	1,561.53	126.66	13.329	
11,600.00	11,588.32	21,077.22	12,711.01	36.09	127.68	-124.227	-380.79	922.55	1,619.20	1,489.88	129.33	12.520	
11,700.00	11,688.20	21,089.37	12,711.76	36.42	127.84	-123.651	-392.91	922.21	1,553.51	1,421.40	132.11	11.759	
11,800.00	11,788.09	21,101.36	12,712.49	36.76	128.00	-123.081	-404.87	921.87	1,491.55	1,356.58	134.97	11.051	
11,900.00	11,887.97	21,112.48	12,713.14	37.09	128.15	-122.551	-415.97	921.56	1,433.81	1,295.94	137.87	10.400	
11,908.72	11,896.68	21,113.43	12,713.20	37.12	128.17	-122.505	-416.92	921.53	1,429.00	1,290.87	138.13	10.346	
12,000.00	11,987.91	21,121.81	12,713.67	37.41	128.28	-121.121	-425.28	921.30	1,380.17	1,239.44	140.73	9.807	
12,047.14	12,035.04	21,124.95	12,713.84	37.47	128.32	89.702	-428.41	921.22	1,356.15	1,214.15	142.00	9.550	
12,100.00	12,087.91	21,127.98	12,714.01	37.47	128.36	89.850	-431.44	921.14	1,330.47	1,187.12	143.35	9.281	
12,200.00	12,187.91	21,133.53	12,714.31	37.48	128.44	90.120	-436.98	921.00	1,286.43	1,140.65	145.78	8.824	
12,300.00	12,287.91	21,138.83	12,714.59	37.48	128.51	90.378	-442.27	920.86	1,248.84	1,100.88	147.96	8.441	
12,400.00	12,387.91	21,143.90	12,714.85	37.49	128.58	90.625	-447.34	920.73	1,218.29	1,068.52	149.77	8.134	
12,500.00	12,487.91	21,148.76	12,715.09	37.50	128.64	90.862	-452.19	920.61	1,195.33	1,044.19	151.15	7.908	
12,547.14	12,535.04	21,150.98	12,715.20	37.49	128.67	90.971	-454.41	920.56	1,187.28	1,035.67	151.61	7.831	
12,550.00	12,537.91	21,151.12	12,715.21	37.50	128.67	-88.491	-454.55	920.55	1,186.84	1,035.21	151.63	7.827	
12,600.00	12,587.83	21,155.70	12,715.43	37.64	128.73	-88.924	-459.11	920.44	1,180.35	1,028.30	152.04	7.763	
12,650.00	12,637.36	21,164.19	12,715.83	37.90	128.85	-88.972	-467.59	920.24	1,175.82	1,023.43	152.39	7.716	
12,700.00	12,686.10	21,176.41	12,716.38	38.17	129.01	-88.656	-479.80	919.96	1,173.22	1,020.54	152.67	7.684	
12,747.05	12,730.92	21,192.05	12,717.05	38.44	129.22	-88.016	-495.42	919.61	1,172.45	1,019.56	152.89	7.669	CC
12,750.00	12,733.70	21,193.18	12,717.10	38.46	129.24	-87.965	-496.55	919.59	1,172.45	1,019.55	152.90	7.668	ES
12,800.00	12,779.78	21,214.47	12,718.00	38.75	129.52	-86.935	-517.81	919.12	1,173.35	1,020.27	153.08	7.665	SF
12,850.00	12,824.00	21,235.00	12,718.87	39.03	129.80	-85.833	-538.32	918.67	1,175.68	1,022.44	153.24	7.672	
12,900.00	12,866.02	21,235.00	12,718.87	39.31	129.80	-85.437	-538.32	918.67	1,179.63	1,026.18	153.45	7.687	
12,950.00	12,905.52	21,235.00	12,718.87	39.57	129.80	-84.865	-538.32	918.67	1,185.34	1,031.74	153.60	7.717	
13,000.00	12,942.21	21,235.00	12,718.87	39.82	129.80	-84.121	-538.32	918.67	1,192.73	1,039.05	153.68	7.761	
13,050.00	12,975.79	21,235.00	12,718.87	40.06	129.80	-83.213	-538.32	918.67	1,201.72	1,048.03	153.68	7.820	
13,100.00	13,006.02	21,235.00	12,718.87	40.27	129.80	-82.149	-538.32	918.67	1,212.20	1,058.59	153.61	7.892	
13,150.00	13,032.66	21,235.00	12,718.87	40.46	129.80	-80.942	-538.32	918.67	1,224.06	1,070.61	153.45	7.977	
13,200.00	13,055.52	21,235.00	12,718.87	40.63	129.80	-79.603	-538.32	918.67	1,237.16	1,083.96	153.21	8.075	
13,250.00	13,074.42	21,235.00	12,718.87	40.77	129.80	-78.148	-538.32	918.67	1,251.38	1,098.49	152.89	8.185	
13,300.00	13,089.21	21,235.00	12,718.87	40.89	129.80	-76.592	-538.32	918.67	1,266.57	1,114.08	152.49	8.306	
13,350.00	13,099.79	21,235.00	12,718.87	40.99	129.80	-74.955	-538.32	918.67	1,282.58	1,130.55	152.02	8.437	
13,400.00	13,106.06	21,235.00	12,718.87	41.06	129.80	-73.253	-538.32	918.67	1,299.25	1,147.77	151.49	8.577	
13,447.14	13,108.00	21,235.00	12,718.87	41.11	129.80	-71.609	-538.32	918.67	1,315.45	1,164.52	150.93	8.716	
13,500.00	13,108.00	21,235.00	12,718.87	41.15	129.80	-71.609	-538.32	918.67	1,334.75	1,184.55	150.20	8.886	
13,600.00	13,108.00	21,235.00	12,718.87	41.25	129.80	-71.609	-538.32	918.67	1,376.09	1,227.59	148.50	9.267	
13,700.00	13,108.00	21,235.00	12,718.87	41.37	129.80	-71.609	-538.32	918.67	1,423.26	1,276.81	146.45	9.718	
13,800.00	13,108.00	21,235.00	12,718.87	41.51	129.80	-71.609	-538.32	918.67	1,475.71	1,331.55	144.16	10.237	
13,900.00	13,108.00	21,235.00	12,718.87	41.67	129.80	-71.609	-538.32	918.67	1,532.90	1,391.18	141.72	10.816	
14,000.00	13,108.00	21,235.00	12,718.87	41.87	129.80	-71.609	-538.32	918.67	1,594.31	1,455.11	139.20	11.453	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,100.00	13,108.00	21,235.00	12,718.87	42.10	129.80	-71.609	-538.32	918.67	1,659.49	1,522.81	136.67	12.142	
14,200.00	13,108.00	21,235.00	12,718.87	42.37	129.80	-71.609	-538.32	918.67	1,727.99	1,593.82	134.17	12.879	
14,300.00	13,108.00	21,235.00	12,718.87	42.69	129.80	-71.609	-538.32	918.67	1,799.44	1,667.71	131.73	13.660	
14,400.00	13,108.00	21,235.00	12,718.87	43.06	129.80	-71.609	-538.32	918.67	1,873.51	1,744.13	129.39	14.480	
14,500.00	13,108.00	21,235.00	12,718.87	43.48	129.80	-71.609	-538.32	918.67	1,949.90	1,822.76	127.14	15.336	
14,600.00	13,108.00	21,235.00	12,718.87	43.97	129.80	-71.609	-538.32	918.67	2,028.34	1,903.33	125.01	16.225	
14,700.00	13,108.00	21,235.00	12,718.87	44.53	129.80	-71.609	-538.32	918.67	2,108.60	1,985.61	123.00	17.143	
14,800.00	13,108.00	21,235.00	12,718.87	45.16	129.80	-71.609	-538.32	918.67	2,190.49	2,069.39	121.10	18.088	
14,900.00	13,108.00	21,235.00	12,718.87	45.87	129.80	-71.609	-538.32	918.67	2,273.83	2,154.51	119.32	19.056	
15,000.00	13,108.00	21,235.00	12,718.87	46.64	129.80	-71.609	-538.32	918.67	2,358.47	2,240.81	117.66	20.045	
15,100.00	13,108.00	21,235.00	12,718.87	47.49	129.80	-71.609	-538.32	918.67	2,444.26	2,328.17	116.10	21.053	
15,200.00	13,108.00	21,235.00	12,718.87	48.39	129.80	-71.609	-538.32	918.67	2,531.10	2,416.46	114.64	22.078	
15,300.00	13,108.00	21,235.00	12,718.87	49.36	129.80	-71.609	-538.32	918.67	2,618.88	2,505.60	113.28	23.118	
15,400.00	13,108.00	21,235.00	12,718.87	50.38	129.80	-71.609	-538.32	918.67	2,707.51	2,595.49	112.02	24.171	
15,500.00	13,108.00	21,235.00	12,718.87	51.44	129.80	-71.609	-538.32	918.67	2,796.90	2,686.06	110.83	25.235	
15,600.00	13,108.00	21,235.00	12,718.87	52.54	129.80	-71.609	-538.32	918.67	2,886.99	2,777.26	109.73	26.309	
15,700.00	13,108.00	21,235.00	12,718.87	53.67	129.80	-71.609	-538.32	918.67	2,977.71	2,869.00	108.70	27.393	
15,800.00	13,108.00	21,235.00	12,718.87	54.84	129.80	-71.609	-538.32	918.67	3,069.01	2,961.26	107.75	28.484	
15,900.00	13,108.00	21,235.00	12,718.87	56.02	129.80	-71.609	-538.32	918.67	3,160.83	3,053.98	106.85	29.581	
16,000.00	13,108.00	21,235.00	12,718.87	57.24	129.80	-71.609	-538.32	918.67	3,253.14	3,147.12	106.02	30.684	
16,100.00	13,108.00	21,235.00	12,718.87	58.47	129.80	-71.609	-538.32	918.67	3,345.89	3,240.65	105.24	31.792	
16,200.00	13,108.00	21,235.00	12,718.87	59.71	129.80	-71.609	-538.32	918.67	3,439.04	3,334.53	104.52	32.905	
16,300.00	13,108.00	21,235.00	12,718.87	60.97	129.80	-71.609	-538.32	918.67	3,532.57	3,428.73	103.84	34.020	
16,400.00	13,108.00	21,235.00	12,718.87	62.25	129.80	-71.609	-538.32	918.67	3,626.45	3,523.24	103.21	35.138	
16,500.00	13,108.00	21,235.00	12,718.87	63.53	129.80	-71.609	-538.32	918.67	3,720.64	3,618.03	102.61	36.258	
16,600.00	13,108.00	21,235.00	12,718.87	64.83	129.80	-71.609	-538.32	918.67	3,815.13	3,713.07	102.06	37.380	
16,700.00	13,108.00	21,235.00	12,718.87	66.13	129.80	-71.609	-538.32	918.67	3,909.90	3,808.35	101.55	38.503	
16,800.00	13,108.00	21,235.00	12,718.87	67.45	129.80	-71.609	-538.32	918.67	4,004.91	3,903.85	101.06	39.627	
16,900.00	13,108.00	21,235.00	12,718.87	68.77	129.80	-71.609	-538.32	918.67	4,100.17	3,999.56	100.61	40.751	
17,000.00	13,108.00	21,235.00	12,718.87	70.10	129.80	-71.609	-538.32	918.67	4,195.65	4,095.45	100.19	41.876	
17,100.00	13,108.00	21,235.00	12,718.87	71.43	129.80	-71.609	-538.32	918.67	4,291.33	4,191.53	99.80	43.000	
17,200.00	13,108.00	21,235.00	12,718.87	72.77	129.80	-71.609	-538.32	918.67	4,387.20	4,287.77	99.43	44.123	
17,300.00	13,108.00	21,235.00	12,718.87	74.11	129.80	-71.609	-538.32	918.67	4,483.26	4,384.17	99.09	45.246	
17,400.00	13,108.00	21,235.00	12,718.87	75.46	129.80	-71.609	-538.32	918.67	4,579.48	4,480.72	98.77	46.367	
17,500.00	13,108.00	21,235.00	12,718.87	76.81	129.80	-71.609	-538.32	918.67	4,675.87	4,577.40	98.46	47.488	
17,600.00	13,108.00	21,235.00	12,718.87	78.17	129.80	-71.609	-538.32	918.67	4,772.40	4,674.21	98.18	48.607	
17,700.00	13,108.00	21,235.00	12,718.87	79.53	129.80	-71.609	-538.32	918.67	4,869.07	4,771.15	97.92	49.724	
17,800.00	13,108.00	21,235.00	12,718.87	80.89	129.80	-71.609	-538.32	918.67	4,965.87	4,868.19	97.68	50.840	
17,900.00	13,108.00	21,235.00	12,718.87	82.26	129.80	-71.609	-538.32	918.67	5,062.80	4,965.35	97.45	51.953	
18,000.00	13,108.00	21,235.00	12,718.87	83.63	129.80	-71.609	-538.32	918.67	5,159.84	5,062.61	97.24	53.065	
18,100.00	13,108.00	21,235.00	12,718.87	85.00	129.80	-71.609	-538.32	918.67	5,257.00	5,159.96	97.04	54.174	
18,200.00	13,108.00	21,235.00	12,718.87	86.38	129.80	-71.609	-538.32	918.67	5,354.26	5,257.40	96.85	55.281	
18,300.00	13,108.00	21,235.00	12,718.87	87.76	129.80	-71.609	-538.32	918.67	5,451.62	5,354.94	96.68	56.386	
18,400.00	13,108.00	21,235.00	12,718.87	89.14	129.80	-71.609	-538.32	918.67	5,549.07	5,452.55	96.52	57.489	
18,500.00	13,108.00	21,235.00	12,718.87	90.52	129.80	-71.609	-538.32	918.67	5,646.61	5,550.24	96.38	58.588	
18,600.00	13,108.00	21,235.00	12,718.87	91.90	129.80	-71.609	-538.32	918.67	5,744.24	5,648.00	96.24	59.686	
18,700.00	13,108.00	21,235.00	12,718.87	93.29	129.80	-71.609	-538.32	918.67	5,841.95	5,745.83	96.12	60.780	
18,800.00	13,108.00	21,235.00	12,718.87	94.68	129.80	-71.609	-538.32	918.67	5,939.73	5,843.73	96.00	61.872	
18,900.00	13,108.00	21,235.00	12,718.87	96.06	129.80	-71.609	-538.32	918.67	6,037.59	5,941.69	95.89	62.961	
19,000.00	13,108.00	21,235.00	12,718.87	97.46	129.80	-71.609	-538.32	918.67	6,135.51	6,039.72	95.80	64.047	
19,100.00	13,108.00	21,235.00	12,718.87	98.85	129.80	-71.609	-538.32	918.67	6,233.50	6,137.80	95.71	65.130	
19,200.00	13,108.00	21,235.00	12,718.87	100.24	129.80	-71.609	-538.32	918.67	6,331.56	6,235.93	95.63	66.210	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
19,300.00	13,108.00	21,235.00	12,718.87	101.64	129.80	-71.609	-538.32	918.67	6,429.67	6,334.12	95.56	67.287			
19,400.00	13,108.00	21,235.00	12,718.87	103.03	129.80	-71.609	-538.32	918.67	6,527.84	6,432.35	95.49	68.361			
19,500.00	13,108.00	21,235.00	12,718.87	104.43	129.80	-71.609	-538.32	918.67	6,626.07	6,530.64	95.43	69.432			
19,600.00	13,108.00	21,235.00	12,718.87	105.83	129.80	-71.609	-538.32	918.67	6,724.35	6,628.97	95.38	70.499			
19,700.00	13,108.00	21,235.00	12,718.87	107.23	129.80	-71.609	-538.32	918.67	6,822.68	6,727.34	95.34	71.564			
19,800.00	13,108.00	21,235.00	12,718.87	108.63	129.80	-71.609	-538.32	918.67	6,921.05	6,825.75	95.30	72.625			
19,900.00	13,108.00	21,235.00	12,718.87	110.03	129.80	-71.609	-538.32	918.67	7,019.47	6,924.21	95.27	73.683			
20,000.00	13,108.00	21,235.00	12,718.87	111.43	129.80	-71.609	-538.32	918.67	7,117.94	7,022.70	95.24	74.738			
20,100.00	13,108.00	21,235.00	12,718.87	112.84	129.80	-71.609	-538.32	918.67	7,216.45	7,121.23	95.22	75.789			
20,200.00	13,108.00	21,235.00	12,718.87	114.24	129.80	-71.609	-538.32	918.67	7,315.00	7,219.79	95.20	76.837			
20,300.00	13,108.00	21,235.00	12,718.87	115.65	129.80	-71.609	-538.32	918.67	7,413.58	7,318.39	95.19	77.882			
20,400.00	13,108.00	21,235.00	12,718.87	117.05	129.80	-71.609	-538.32	918.67	7,512.21	7,417.02	95.18	78.923			
20,500.00	13,108.00	21,235.00	12,718.87	118.46	129.80	-71.609	-538.32	918.67	7,610.87	7,515.69	95.18	79.961			
20,600.00	13,108.00	21,235.00	12,718.87	119.87	129.80	-71.609	-538.32	918.67	7,709.56	7,614.38	95.19	80.995			
20,700.00	13,108.00	21,235.00	12,718.87	121.28	129.80	-71.609	-538.32	918.67	7,808.29	7,713.10	95.19	82.026			
20,800.00	13,108.00	21,235.00	12,718.87	122.68	129.80	-71.609	-538.32	918.67	7,907.05	7,811.85	95.20	83.054			
20,900.00	13,108.00	21,235.00	12,718.87	124.09	129.80	-71.609	-538.32	918.67	8,005.84	7,910.63	95.22	84.078			
21,000.00	13,108.00	21,235.00	12,718.87	125.51	129.80	-71.609	-538.32	918.67	8,104.67	8,009.43	95.24	85.099			
21,100.00	13,108.00	21,235.00	12,718.87	126.92	129.80	-71.609	-538.32	918.67	8,203.51	8,108.25	95.26	86.116			
21,200.00	13,108.00	21,235.00	12,718.87	128.33	129.80	-71.609	-538.32	918.67	8,302.39	8,207.10	95.29	87.129			
21,300.00	13,108.00	21,235.00	12,718.87	129.74	129.80	-71.609	-538.32	918.67	8,401.30	8,305.98	95.32	88.139			
21,400.00	13,108.00	21,235.00	12,718.87	131.15	129.80	-71.609	-538.32	918.67	8,500.22	8,404.87	95.35	89.146			
21,500.00	13,108.00	21,235.00	12,718.87	132.57	129.80	-71.609	-538.32	918.67	8,599.18	8,503.79	95.39	90.149			
21,600.00	13,108.00	21,235.00	12,718.87	133.98	129.80	-71.609	-538.32	918.67	8,698.16	8,602.73	95.43	91.148			
21,700.00	13,108.00	21,235.00	12,718.87	135.39	129.80	-71.609	-538.32	918.67	8,797.16	8,701.69	95.47	92.144			
21,800.00	13,108.00	21,235.00	12,718.87	136.81	129.80	-71.609	-538.32	918.67	8,896.18	8,800.66	95.52	93.137			
21,900.00	13,108.00	21,235.00	12,718.87	138.22	129.80	-71.609	-538.32	918.67	8,995.23	8,899.66	95.57	94.125			
22,000.00	13,108.00	21,235.00	12,718.87	139.64	129.80	-71.609	-538.32	918.67	9,094.29	8,998.67	95.62	95.111			
22,100.00	13,108.00	21,235.00	12,718.87	141.06	129.80	-71.609	-538.32	918.67	9,193.38	9,097.70	95.67	96.092			
22,200.00	13,108.00	21,235.00	12,718.87	142.47	129.80	-71.609	-538.32	918.67	9,292.48	9,196.75	95.73	97.070			
22,300.00	13,108.00	21,235.00	12,718.87	143.89	129.80	-71.609	-538.32	918.67	9,391.61	9,295.82	95.79	98.044			
22,400.00	13,108.00	21,235.00	12,718.87	145.31	129.80	-71.609	-538.32	918.67	9,490.75	9,394.90	95.85	99.015			
22,500.00	13,108.00	21,235.00	12,718.87	146.72	129.80	-71.609	-538.32	918.67	9,589.91	9,494.00	95.92	99.982			
22,600.00	13,108.00	21,235.00	12,718.87	148.14	129.80	-71.609	-538.32	918.67	9,689.09	9,593.11	95.98	100.946			
22,700.00	13,108.00	21,235.00	12,718.87	149.56	129.80	-71.609	-538.32	918.67	9,788.28	9,692.23	96.05	101.906			
22,800.00	13,108.00	21,235.00	12,718.87	150.98	129.80	-71.609	-538.32	918.67	9,887.50	9,791.37	96.12	102.862			
22,900.00	13,108.00	21,235.00	12,718.87	152.40	129.80	-71.609	-538.32	918.67	9,986.72	9,890.52	96.20	103.815			
23,000.00	13,108.00	21,235.00	12,718.87	153.82	129.80	-71.609	-538.32	918.67	10,085.96	9,989.69	96.27	104.764			
23,100.00	13,108.00	21,235.00	12,718.87	155.24	129.80	-71.609	-538.32	918.67	10,185.22	10,088.87	96.35	105.709			
23,200.00	13,108.00	21,235.00	12,718.87	156.66	129.80	-71.609	-538.32	918.67	10,284.49	10,188.06	96.43	106.651			
23,247.14	13,108.00	21,235.00	12,718.87	157.33	129.80	-71.609	-538.32	918.67	10,331.29	10,234.82	96.47	107.094			

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 512H - OH / 68637 - Surveys (H&P 625)														Offset Site Error:	0.00 usft
Survey Program: 124-MWD+HDCM														Offset Well Error:	1.00 usft
Reference														Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	67.55	12.55	1.00	1.00	-1.175	7,899.92	-162.09	7,901.59						
100.00	100.00	255.42	200.42	1.08	1.19	-1.182	7,898.65	-162.91	7,900.97	7,898.69		2.27	3,474.254		
200.00	200.00	382.56	327.54	1.60	1.49	-1.182	7,896.78	-162.96	7,899.49	7,896.41		3.08	2,561.471		
300.00	300.00	497.73	442.69	2.01	1.81	-1.183	7,894.78	-163.05	7,897.76	7,893.94		3.82	2,067.378		
400.00	400.00	587.56	532.51	2.35	2.09	-1.184	7,893.22	-163.12	7,896.01	7,891.58		4.44	1,778.837		
500.00	500.00	683.92	628.85	2.65	2.40	-1.184	7,891.66	-163.14	7,894.39	7,889.35		5.05	1,563.596		
600.00	600.00	814.39	759.30	2.93	2.83	-1.184	7,889.28	-163.05	7,892.57	7,886.82		5.75	1,371.926		
700.00	700.00	911.43	856.32	3.18	3.16	-1.183	7,887.29	-162.85	7,890.52	7,884.19		6.33	1,246.256		
800.00	800.00	998.22	943.10	3.41	3.46	-1.180	7,885.65	-162.45	7,888.62	7,881.76		6.86	1,149.595		
900.00	900.00	1,094.08	1,038.94	3.64	3.79	-1.176	7,883.97	-161.90	7,886.85	7,879.44		7.41	1,063.910		
1,000.00	1,000.00	1,212.17	1,157.01	3.85	4.20	-1.174	7,881.83	-161.47	7,885.05	7,877.02		8.03	981.623		
1,100.00	1,100.00	1,271.00	1,215.83	4.05	4.40	-1.172	7,880.59	-161.24	7,883.09	7,874.65		8.44	934.101		
1,200.00	1,200.00	1,271.00	1,215.83	4.24	4.40	-1.172	7,880.59	-161.24	7,882.26	7,873.62		8.63	913.072		
1,283.97	1,283.97	1,338.19	1,283.00	4.40	4.63	-1.168	7,879.85	-160.71	7,881.49	7,872.48		9.01	874.426		
1,300.00	1,300.00	1,342.59	1,287.41	4.43	4.64	-1.168	7,879.86	-160.65	7,881.51	7,872.45		9.06	870.125		
1,400.00	1,400.00	1,370.05	1,314.87	4.61	4.73	-1.165	7,880.04	-160.27	7,882.13	7,872.80		9.33	844.884		
1,500.00	1,500.00	1,456.00	1,400.76	4.78	5.02	-1.152	7,882.24	-158.51	7,884.46	7,874.67		9.79	805.225		
1,600.00	1,599.98	1,456.00	1,400.76	4.99	5.02	148.622	7,882.24	-158.51	7,887.84	7,877.88		9.96	792.165		
1,638.42	1,638.36	1,456.00	1,400.76	5.04	5.02	148.597	7,882.24	-158.51	7,890.27	7,880.27		10.00	789.009		
1,700.00	1,699.87	1,456.00	1,400.76	5.10	5.02	148.597	7,882.24	-158.51	7,894.90	7,884.84		10.05	785.291		
1,800.00	1,799.76	1,530.84	1,475.52	5.26	5.27	148.624	7,885.29	-156.66	7,903.03	7,892.58		10.44	756.868		
1,900.00	1,899.64	1,617.56	1,562.14	5.44	5.55	148.655	7,888.96	-154.64	7,911.33	7,900.44		10.89	726.254		
2,000.00	1,999.52	1,728.22	1,672.68	5.64	5.91	148.694	7,893.69	-152.26	7,919.69	7,908.25		11.44	692.277		
2,100.00	2,099.41	1,849.46	1,793.79	5.84	6.32	148.733	7,898.57	-149.94	7,927.81	7,915.77		12.03	658.778		
2,200.00	2,199.29	1,897.38	1,841.66	6.07	6.48	148.748	7,900.65	-149.19	7,936.18	7,923.78		12.39	640.477		
2,300.00	2,299.17	1,954.03	1,898.24	6.30	6.67	148.763	7,903.37	-148.47	7,945.07	7,932.29		12.78	621.461		
2,400.00	2,399.06	2,021.00	1,965.11	6.54	6.90	148.780	7,906.97	-147.86	7,954.53	7,941.31		13.22	601.699		
2,500.00	2,498.94	2,086.95	2,030.95	6.79	7.12	148.797	7,910.79	-147.33	7,964.39	7,950.73		13.66	583.018		
2,600.00	2,598.82	2,167.65	2,111.50	7.04	7.40	148.818	7,915.64	-146.50	7,974.50	7,960.35		14.16	563.272		
2,700.00	2,698.71	2,265.57	2,209.22	7.31	7.74	148.845	7,921.71	-145.24	7,984.80	7,970.08		14.72	542.368		
2,800.00	2,798.59	2,382.59	2,326.02	7.58	8.14	148.880	7,928.78	-143.42	7,994.95	7,979.59		15.36	520.468		
2,900.00	2,898.47	2,484.10	2,427.33	7.85	8.50	148.912	7,934.78	-141.58	8,004.96	7,989.01		15.95	501.822		
3,000.00	2,998.36	2,583.24	2,526.28	8.13	8.84	148.945	7,940.64	-139.60	8,014.98	7,998.44		16.54	484.620		
3,100.00	3,098.24	2,681.75	2,624.60	8.41	9.19	148.977	7,946.48	-137.69	8,025.00	8,007.87		17.13	468.518		
3,200.00	3,198.12	2,784.03	2,726.69	8.70	9.55	149.007	7,952.54	-136.05	8,035.04	8,017.30		17.74	453.048		
3,300.00	3,298.01	2,953.17	2,895.55	8.99	10.15	149.056	7,961.76	-133.57	8,044.61	8,026.02		18.59	432.783		
3,400.00	3,397.89	3,045.28	2,987.53	9.28	10.47	149.081	7,966.39	-132.35	8,053.76	8,034.60		19.17	420.206		
3,500.00	3,497.77	3,132.11	3,074.25	9.58	10.78	149.103	7,970.89	-131.53	8,063.07	8,043.34		19.73	408.716		
3,600.00	3,597.66	3,270.92	3,212.87	9.88	11.27	149.136	7,977.93	-130.42	8,072.29	8,051.81		20.48	394.139		
3,700.00	3,697.54	3,401.04	3,342.84	10.18	11.74	149.170	7,983.84	-128.87	8,080.95	8,059.74		21.21	381.076		
3,800.00	3,797.42	3,510.94	3,452.62	10.49	12.13	149.207	7,988.61	-126.49	8,089.41	8,067.55		21.86	370.049		
3,900.00	3,897.31	3,579.40	3,520.99	10.79	12.37	149.231	7,991.63	-124.81	8,097.97	8,075.60		22.37	362.069		
4,000.00	3,997.19	3,639.19	3,580.70	11.10	12.58	149.247	7,994.56	-124.13	8,107.00	8,084.16		22.84	354.940		
4,100.00	4,097.07	3,718.00	3,659.40	11.41	12.86	149.259	7,998.86	-124.41	8,116.57	8,093.18		23.39	347.077		
4,200.00	4,196.96	3,775.05	3,716.34	11.72	13.07	149.265	8,002.19	-124.96	8,126.47	8,102.62		23.85	340.710		
4,300.00	4,296.84	3,858.73	3,799.87	12.03	13.37	149.277	8,007.22	-125.33	8,136.63	8,112.21		24.42	333.242		
4,400.00	4,396.72	3,951.41	3,892.38	12.35	13.70	149.295	8,012.95	-125.18	8,146.95	8,121.93		25.02	325.660		
4,500.00	4,496.61	4,056.45	3,997.21	12.66	14.07	149.315	8,019.42	-124.90	8,157.25	8,131.59		25.66	317.841		
4,600.00	4,596.49	4,191.81	4,132.33	12.98	14.56	149.343	8,027.48	-124.44	8,167.37	8,140.94		26.43	309.061		
4,700.00	4,696.37	4,424.17	4,364.39	13.29	15.39	149.396	8,039.10	-122.71	8,176.67	8,149.13		27.55	296.825		
4,800.00	4,796.26	4,606.27	4,546.36	13.61	16.04	149.445	8,045.45	-120.15	8,184.25	8,155.76		28.48	287.348		
4,900.00	4,896.14	20,913.72	13,018.07	13.93	123.21	166.609	8.48	-131.23	8,123.42	8,047.30		76.13	106.711		

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,996.02	20,915.79	13,018.11	14.25	123.24	166.670	6.41	-131.29	8,023.62	7,947.32	76.31	105.151	
5,100.00	5,095.91	20,917.90	13,018.15	14.57	123.26	166.733	4.30	-131.35	7,923.82	7,847.33	76.49	103.595	
5,200.00	5,195.79	20,920.04	13,018.19	14.89	123.29	166.798	2.16	-131.41	7,824.03	7,747.35	76.67	102.043	
5,300.00	5,295.67	20,922.21	13,018.23	15.21	123.32	166.864	-0.01	-131.47	7,724.24	7,647.37	76.86	100.494	
5,400.00	5,395.56	20,924.43	13,018.28	15.54	123.35	166.932	-2.22	-131.53	7,624.45	7,547.39	77.05	98.950	
5,500.00	5,495.44	20,956.00	13,019.04	15.86	123.77	167.979	-33.78	-132.33	7,524.82	7,447.34	77.48	97.119	
5,600.00	5,595.32	20,956.00	13,019.04	16.19	123.77	167.979	-33.78	-132.33	7,425.02	7,347.36	77.66	95.610	
5,700.00	5,695.21	20,956.00	13,019.04	16.51	123.77	167.979	-33.78	-132.33	7,325.22	7,247.38	77.84	94.104	
5,800.00	5,795.09	20,956.00	13,019.04	16.83	123.77	167.979	-33.78	-132.33	7,225.43	7,147.40	78.03	92.603	
5,900.00	5,894.97	20,956.00	13,019.04	17.16	123.77	167.979	-33.78	-132.33	7,125.64	7,047.43	78.21	91.105	
6,000.00	5,994.86	20,956.00	13,019.04	17.49	123.77	167.979	-33.78	-132.33	7,025.86	6,947.45	78.40	89.612	
6,100.00	6,094.74	20,956.00	13,019.04	17.81	123.77	167.979	-33.78	-132.33	6,926.08	6,847.49	78.59	88.124	
6,200.00	6,194.62	20,956.00	13,019.04	18.14	123.77	167.979	-33.78	-132.33	6,826.31	6,747.52	78.79	86.640	
6,300.00	6,294.51	20,956.00	13,019.04	18.47	123.77	167.979	-33.78	-132.33	6,726.55	6,647.56	78.99	85.160	
6,400.00	6,394.39	20,956.00	13,019.04	18.79	123.77	167.979	-33.78	-132.33	6,626.80	6,547.61	79.19	83.685	
6,500.00	6,494.27	20,956.00	13,019.04	19.12	123.77	167.979	-33.78	-132.33	6,527.05	6,447.66	79.39	82.215	
6,600.00	6,594.16	20,956.00	13,019.04	19.45	123.77	167.979	-33.78	-132.33	6,427.31	6,347.72	79.60	80.750	
6,700.00	6,694.04	20,956.00	13,019.04	19.78	123.77	167.979	-33.78	-132.33	6,327.58	6,247.78	79.80	79.290	
6,800.00	6,793.92	20,956.00	13,019.04	20.11	123.77	167.979	-33.78	-132.33	6,227.86	6,147.85	80.01	77.835	
6,900.00	6,893.81	20,956.00	13,019.04	20.44	123.77	167.979	-33.78	-132.33	6,128.15	6,047.92	80.23	76.386	
7,000.00	6,993.69	20,956.00	13,019.04	20.77	123.77	167.979	-33.78	-132.33	6,028.44	5,948.00	80.44	74.941	
7,100.00	7,093.57	20,974.98	13,019.59	21.10	124.02	168.682	-52.74	-132.76	5,928.70	5,847.88	80.81	73.362	
7,200.00	7,193.46	20,979.49	13,019.73	21.43	124.08	168.858	-57.25	-132.86	5,828.99	5,747.92	81.07	71.899	
7,300.00	7,293.34	20,984.07	13,019.87	21.76	124.14	169.040	-61.83	-132.96	5,729.28	5,647.95	81.33	70.442	
7,400.00	7,393.22	20,988.70	13,020.02	22.09	124.20	169.228	-66.46	-133.06	5,629.58	5,547.98	81.60	68.992	
7,500.00	7,493.11	20,993.40	13,020.17	22.42	124.27	169.422	-71.15	-133.16	5,529.89	5,448.02	81.87	67.549	
7,600.00	7,592.99	20,998.15	13,020.32	22.75	124.33	169.623	-75.90	-133.26	5,430.19	5,348.06	82.14	66.112	
7,700.00	7,692.87	21,002.97	13,020.48	23.08	124.39	169.831	-80.72	-133.37	5,330.51	5,248.10	82.41	64.682	
7,800.00	7,792.76	21,007.86	13,020.64	23.41	124.46	170.047	-85.59	-133.47	5,230.82	5,148.14	82.69	63.260	
7,900.00	7,892.64	21,012.80	13,020.80	23.74	124.52	170.270	-90.54	-133.58	5,131.15	5,048.18	82.97	61.844	
8,000.00	7,992.52	21,017.82	13,020.98	24.07	124.59	170.502	-95.55	-133.68	5,031.48	4,948.22	83.25	60.436	
8,100.00	8,092.41	21,022.90	13,021.15	24.40	124.66	170.743	-100.62	-133.79	4,931.81	4,848.27	83.54	59.035	
8,200.00	8,192.29	21,028.05	13,021.33	24.74	124.73	170.992	-105.77	-133.89	4,832.15	4,748.32	83.83	57.641	
8,300.00	8,292.17	21,087.48	13,023.07	25.07	125.52	174.366	-165.16	-135.20	4,732.40	4,647.83	84.58	55.953	
8,400.00	8,392.06	21,094.17	13,023.24	25.40	125.61	174.812	-171.85	-135.36	4,632.67	4,547.78	84.89	54.573	
8,500.00	8,491.94	21,100.86	13,023.40	25.73	125.70	175.276	-178.53	-135.51	4,532.94	4,447.73	85.20	53.202	
8,600.00	8,591.82	21,107.54	13,023.57	26.07	125.79	175.756	-185.21	-135.67	4,433.21	4,347.69	85.52	51.839	
8,700.00	8,691.71	21,187.64	13,024.90	26.40	126.85	-176.773	-265.26	-137.69	4,333.46	4,247.00	86.46	50.124	
8,800.00	8,791.59	21,195.49	13,024.95	26.73	126.96	-175.819	-273.12	-137.90	4,233.63	4,146.84	86.79	48.780	
8,900.00	8,891.47	21,203.14	13,025.00	27.06	127.06	-174.841	-280.76	-138.12	4,133.80	4,046.68	87.13	47.447	
9,000.00	8,991.36	21,210.59	13,025.05	27.40	127.16	-173.837	-288.21	-138.32	4,033.97	3,946.51	87.46	46.122	
9,100.00	9,091.24	21,217.85	13,025.09	27.73	127.25	-172.808	-295.47	-138.53	3,934.15	3,846.34	87.80	44.807	
9,200.00	9,191.12	21,224.93	13,025.12	28.06	127.35	-171.754	-302.54	-138.73	3,834.32	3,746.18	88.14	43.501	
9,300.00	9,291.01	21,231.83	13,025.15	28.40	127.44	-170.674	-309.44	-138.92	3,734.49	3,646.00	88.49	42.205	
9,400.00	9,390.89	21,238.56	13,025.18	28.73	127.53	-169.567	-316.17	-139.11	3,634.66	3,545.83	88.83	40.917	
9,500.00	9,490.77	21,246.99	13,025.20	29.06	127.64	-168.102	-324.60	-139.35	3,534.84	3,445.64	89.19	39.632	
9,600.00	9,590.66	21,255.16	13,025.21	29.40	127.75	-166.596	-332.76	-139.58	3,435.01	3,345.45	89.56	38.356	
9,700.00	9,690.54	21,262.93	13,025.22	29.73	127.85	-165.073	-340.53	-139.80	3,335.18	3,245.26	89.92	37.091	
9,800.00	9,790.42	21,270.36	13,025.22	30.06	127.95	-163.536	-347.95	-140.01	3,235.35	3,145.07	90.28	35.835	
9,900.00	9,890.31	21,277.45	13,025.21	30.40	128.05	-161.986	-355.04	-140.22	3,135.53	3,044.88	90.65	34.590	
10,000.00	9,990.19	21,284.22	13,025.19	30.73	128.14	-160.427	-361.81	-140.41	3,035.70	2,944.69	91.02	33.354	
10,100.00	10,090.07	21,290.71	13,025.17	31.07	128.22	-158.860	-368.30	-140.59	2,935.88	2,844.50	91.38	32.127	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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					Rule Assigned:			Offset Well Error:		1.00 usft		
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance				Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,200.00	10,189.96	21,296.92	13,025.15	31.40	128.31	-157.288	-374.51	-140.77	2,836.07	2,744.31	91.75	30.910		
10,300.00	10,289.84	21,302.88	13,025.12	31.74	128.38	-155.712	-380.46	-140.94	2,736.25	2,644.13	92.12	29.702		
10,400.00	10,389.72	21,308.60	13,025.09	32.07	128.46	-154.136	-386.18	-141.10	2,636.45	2,543.95	92.50	28.503		
10,500.00	10,489.60	21,314.09	13,025.06	32.40	128.53	-152.561	-391.67	-141.25	2,536.65	2,443.78	92.87	27.313		
10,600.00	10,589.49	21,319.37	13,025.02	32.74	128.60	-150.990	-396.94	-141.40	2,436.86	2,343.61	93.25	26.132		
10,700.00	10,689.37	21,324.45	13,024.98	33.07	128.67	-149.426	-402.02	-141.55	2,337.08	2,243.45	93.63	24.960		
10,800.00	10,789.25	21,329.33	13,024.94	33.41	128.74	-147.870	-406.90	-141.69	2,237.31	2,143.29	94.02	23.797		
10,900.00	10,889.14	21,334.04	13,024.90	33.74	128.80	-146.325	-411.61	-141.82	2,137.56	2,043.15	94.41	22.642		
11,000.00	10,989.02	21,338.58	13,024.85	34.08	128.86	-144.793	-416.15	-141.95	2,037.82	1,943.02	94.80	21.496		
11,100.00	11,088.90	21,342.96	13,024.81	34.41	128.92	-143.276	-420.52	-142.07	1,938.10	1,842.90	95.20	20.358		
11,200.00	11,188.79	21,347.18	13,024.77	34.75	128.97	-141.776	-424.75	-142.19	1,838.41	1,742.80	95.60	19.229		
11,300.00	11,288.67	21,344.21	13,024.81	35.08	128.94	-142.833	-421.78	-142.10	1,738.77	1,642.82	95.95	18.121		
11,400.00	11,388.55	21,347.02	13,024.79	35.42	128.97	-141.832	-424.59	-142.18	1,639.15	1,542.79	96.36	17.010		
11,500.00	11,488.44	21,349.90	13,024.77	35.75	129.01	-140.792	-427.46	-142.25	1,539.57	1,442.79	96.79	15.907		
11,600.00	11,588.32	21,352.84	13,024.76	36.09	129.05	-139.712	-430.40	-142.33	1,440.05	1,342.82	97.23	14.811		
11,700.00	11,688.20	21,355.85	13,024.74	36.42	129.09	-138.590	-433.41	-142.41	1,340.59	1,242.90	97.69	13.723		
11,800.00	11,788.09	21,358.93	13,024.72	36.76	129.13	-137.425	-436.49	-142.49	1,241.20	1,143.03	98.17	12.643		
11,900.00	11,887.97	21,362.09	13,024.70	37.09	129.17	-136.215	-439.64	-142.57	1,141.91	1,043.22	98.69	11.570		
11,908.72	11,896.68	21,362.36	13,024.70	37.12	129.18	-136.107	-439.92	-142.58	1,133.26	1,034.52	98.74	11.477		
12,000.00	11,987.91	21,364.22	13,024.69	37.41	129.20	-123.645	-441.77	-142.63	1,042.63	943.39	99.24	10.506		
12,047.14	12,035.04	21,364.32	13,024.69	37.47	129.20	93.818	-441.88	-142.63	995.79	896.29	99.50	10.008		
12,100.00	12,087.91	21,364.11	13,024.69	37.47	129.20	93.707	-441.66	-142.62	943.27	843.47	99.80	9.451		
12,200.00	12,187.91	21,363.70	13,024.70	37.48	129.20	93.494	-441.25	-142.61	844.04	743.61	100.43	8.404		
12,300.00	12,287.91	21,363.28	13,024.70	37.48	129.19	93.275	-440.83	-142.60	745.01	643.85	101.16	7.364		
12,400.00	12,387.91	21,362.84	13,024.70	37.49	129.18	93.051	-440.40	-142.59	646.29	544.22	102.07	6.332		
12,500.00	12,487.91	21,362.40	13,024.70	37.50	129.18	92.821	-439.96	-142.58	548.02	444.75	103.27	5.306		
12,547.14	12,535.04	21,362.19	13,024.70	37.49	129.18	92.710	-439.74	-142.57	501.94	397.93	104.01	4.826		
12,550.00	12,537.91	21,362.18	13,024.70	37.50	129.18	-87.985	-439.74	-142.57	499.15	395.09	104.06	4.797		
12,600.00	12,587.83	21,364.21	13,024.69	37.64	129.20	-107.333	-441.77	-142.62	450.56	345.51	105.05	4.289		
12,650.00	12,637.36	21,370.35	13,024.67	37.90	129.28	-120.208	-447.90	-142.78	402.63	296.31	106.32	3.787		
12,700.00	12,686.10	21,380.62	13,024.64	38.17	129.42	-127.792	-458.17	-143.03	355.84	247.85	108.00	3.295		
12,750.00	12,733.70	21,395.02	13,024.62	38.46	129.61	-131.795	-472.57	-143.36	310.71	200.48	110.23	2.819		
12,800.00	12,779.78	21,413.52	13,024.64	38.75	129.86	-133.272	-491.06	-143.75	267.83	154.56	113.27	2.364		
12,850.00	12,824.00	21,436.66	13,024.71	39.03	130.17	-132.572	-514.20	-144.22	227.84	110.40	117.43	1.940		
12,900.00	12,866.02	21,463.86	13,024.80	39.31	130.53	-129.931	-541.39	-144.76	191.47	68.35	123.12	1.555		
12,950.00	12,905.52	21,477.00	13,024.85	39.57	130.71	-129.692	-554.53	-145.02	160.67	29.28	131.39	1.223	Level 3	
13,000.00	12,942.21	21,477.00	13,024.85	39.82	130.71	-131.120	-554.53	-145.02	143.41	4.17	139.23	1.030	Level 3	
13,020.20	12,956.16	21,477.00	13,024.85	39.92	130.71	-131.246	-554.53	-145.02	141.74	1.33	140.41	1.009	Level 3, CC, ES, SF	
13,050.00	12,975.79	21,477.00	13,024.85	40.06	130.71	-130.971	-554.53	-145.02	145.34	6.27	139.07	1.045	Level 3	
13,100.00	13,006.02	21,477.00	13,024.85	40.27	130.71	-129.225	-554.53	-145.02	165.79	34.98	130.81	1.267	Level 3	
13,150.00	13,032.66	21,477.00	13,024.85	40.46	130.71	-125.644	-554.53	-145.02	199.01	77.89	121.11	1.643		
13,200.00	13,055.52	21,477.00	13,024.85	40.63	130.71	-119.747	-554.53	-145.02	239.55	126.14	113.41	2.112		
13,250.00	13,074.42	21,477.00	13,024.85	40.77	130.71	-110.838	-554.53	-145.02	284.07	176.17	107.90	2.633		
13,300.00	13,089.21	21,477.00	13,024.85	40.89	130.71	-98.304	-554.53	-145.02	330.69	226.73	103.95	3.181		
13,350.00	13,099.79	21,477.00	13,024.85	40.99	130.71	-82.551	-554.53	-145.02	378.34	277.31	101.03	3.745		
13,400.00	13,106.06	21,477.00	13,024.85	41.06	130.71	-65.897	-554.53	-145.02	426.39	327.61	98.78	4.317		
13,447.14	13,108.00	21,477.00	13,024.85	41.11	130.71	-52.037	-554.53	-145.02	471.66	374.59	97.07	4.859		
13,500.00	13,108.00	21,477.00	13,024.85	41.15	130.71	-52.037	-554.53	-145.02	522.53	427.00	95.52	5.470		
13,600.00	13,108.00	21,477.00	13,024.85	41.25	130.71	-52.037	-554.53	-145.02	619.66	526.23	93.44	6.632		
13,700.00	13,108.00	21,477.00	13,024.85	41.37	130.71	-52.037	-554.53	-145.02	717.59	625.55	92.04	7.796		
13,800.00	13,108.00	21,477.00	13,024.85	41.51	130.71	-52.037	-554.53	-145.02	816.01	724.95	91.06	8.961		
13,900.00	13,108.00	21,477.00	13,024.85	41.67	130.71	-52.037	-554.53	-145.02	914.78	824.43	90.35	10.124		

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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	13,108.00	21,477.00	13,024.85	41.87	130.71	-52.037	-554.53	-145.02	1,013.79	923.97	89.82	11.287		
14,100.00	13,108.00	21,477.00	13,024.85	42.10	130.71	-52.037	-554.53	-145.02	1,112.98	1,023.57	89.41	12.448		
14,200.00	13,108.00	21,477.00	13,024.85	42.37	130.71	-52.037	-554.53	-145.02	1,212.30	1,123.21	89.09	13.607		
14,300.00	13,108.00	21,477.00	13,024.85	42.69	130.71	-52.037	-554.53	-145.02	1,311.72	1,222.88	88.84	14.765		
14,400.00	13,108.00	21,477.00	13,024.85	43.06	130.71	-52.037	-554.53	-145.02	1,411.23	1,322.59	88.64	15.921		
14,500.00	13,108.00	21,477.00	13,024.85	43.48	130.71	-52.037	-554.53	-145.02	1,510.80	1,422.32	88.48	17.076		
14,600.00	13,108.00	21,477.00	13,024.85	43.97	130.71	-52.037	-554.53	-145.02	1,610.42	1,522.08	88.34	18.229		
14,700.00	13,108.00	21,477.00	13,024.85	44.53	130.71	-52.037	-554.53	-145.02	1,710.09	1,621.86	88.24	19.381		
14,800.00	13,108.00	21,477.00	13,024.85	45.16	130.71	-52.037	-554.53	-145.02	1,809.80	1,721.65	88.15	20.531		
14,900.00	13,108.00	21,477.00	13,024.85	45.87	130.71	-52.037	-554.53	-145.02	1,909.53	1,821.45	88.08	21.680		
15,000.00	13,108.00	21,477.00	13,024.85	46.64	130.71	-52.037	-554.53	-145.02	2,009.29	1,921.27	88.02	22.827		
15,100.00	13,108.00	21,477.00	13,024.85	47.49	130.71	-52.037	-554.53	-145.02	2,109.08	2,021.10	87.98	23.972		
15,200.00	13,108.00	21,477.00	13,024.85	48.39	130.71	-52.037	-554.53	-145.02	2,208.88	2,120.93	87.95	25.116		
15,300.00	13,108.00	21,477.00	13,024.85	49.36	130.71	-52.037	-554.53	-145.02	2,308.70	2,220.78	87.92	26.258		
15,400.00	13,108.00	21,477.00	13,024.85	50.38	130.71	-52.037	-554.53	-145.02	2,408.54	2,320.63	87.91	27.399		
15,500.00	13,108.00	21,477.00	13,024.85	51.44	130.71	-52.037	-554.53	-145.02	2,508.39	2,420.49	87.90	28.538		
15,600.00	13,108.00	21,477.00	13,024.85	52.54	130.71	-52.037	-554.53	-145.02	2,608.25	2,520.35	87.89	29.675		
15,700.00	13,108.00	21,477.00	13,024.85	53.67	130.71	-52.037	-554.53	-145.02	2,708.12	2,620.22	87.90	30.810		
15,800.00	13,108.00	21,477.00	13,024.85	54.84	130.71	-52.037	-554.53	-145.02	2,808.00	2,720.09	87.90	31.944		
15,900.00	13,108.00	21,477.00	13,024.85	56.02	130.71	-52.037	-554.53	-145.02	2,907.88	2,819.97	87.92	33.075		
16,000.00	13,108.00	21,477.00	13,024.85	57.24	130.71	-52.037	-554.53	-145.02	3,007.78	2,919.85	87.93	34.205		
16,100.00	13,108.00	21,477.00	13,024.85	58.47	130.71	-52.037	-554.53	-145.02	3,107.68	3,019.73	87.95	35.333		
16,200.00	13,108.00	21,477.00	13,024.85	59.71	130.71	-52.037	-554.53	-145.02	3,207.59	3,119.61	87.98	36.459		
16,300.00	13,108.00	21,477.00	13,024.85	60.97	130.71	-52.037	-554.53	-145.02	3,307.50	3,219.50	88.01	37.583		
16,400.00	13,108.00	21,477.00	13,024.85	62.25	130.71	-52.037	-554.53	-145.02	3,407.42	3,319.39	88.04	38.704		
16,500.00	13,108.00	21,477.00	13,024.85	63.53	130.71	-52.037	-554.53	-145.02	3,507.35	3,419.28	88.07	39.824		
16,600.00	13,108.00	21,477.00	13,024.85	64.83	130.71	-52.037	-554.53	-145.02	3,607.27	3,519.17	88.11	40.942		
16,700.00	13,108.00	21,477.00	13,024.85	66.13	130.71	-52.037	-554.53	-145.02	3,707.21	3,619.06	88.15	42.057		
16,800.00	13,108.00	21,477.00	13,024.85	67.45	130.71	-52.037	-554.53	-145.02	3,807.14	3,718.95	88.19	43.170		
16,900.00	13,108.00	21,477.00	13,024.85	68.77	130.71	-52.037	-554.53	-145.02	3,907.08	3,818.85	88.23	44.281		
17,000.00	13,108.00	21,477.00	13,024.85	70.10	130.71	-52.037	-554.53	-145.02	4,007.02	3,918.74	88.28	45.390		
17,100.00	13,108.00	21,477.00	13,024.85	71.43	130.71	-52.037	-554.53	-145.02	4,106.97	4,018.64	88.33	46.496		
17,200.00	13,108.00	21,477.00	13,024.85	72.77	130.71	-52.037	-554.53	-145.02	4,206.91	4,118.53	88.38	47.600		
17,300.00	13,108.00	21,477.00	13,024.85	74.11	130.71	-52.037	-554.53	-145.02	4,306.86	4,218.43	88.43	48.702		
17,400.00	13,108.00	21,477.00	13,024.85	75.46	130.71	-52.037	-554.53	-145.02	4,406.81	4,318.33	88.49	49.801		
17,500.00	13,108.00	21,477.00	13,024.85	76.81	130.71	-52.037	-554.53	-145.02	4,506.77	4,418.22	88.55	50.897		
17,600.00	13,108.00	21,477.00	13,024.85	78.17	130.71	-52.037	-554.53	-145.02	4,606.72	4,518.12	88.61	51.992		
17,700.00	13,108.00	21,477.00	13,024.85	79.53	130.71	-52.037	-554.53	-145.02	4,706.68	4,618.02	88.67	53.083		
17,800.00	13,108.00	21,477.00	13,024.85	80.89	130.71	-52.037	-554.53	-145.02	4,806.64	4,717.91	88.73	54.172		
17,900.00	13,108.00	21,477.00	13,024.85	82.26	130.71	-52.037	-554.53	-145.02	4,906.60	4,817.81	88.79	55.259		
18,000.00	13,108.00	21,477.00	13,024.85	83.63	130.71	-52.037	-554.53	-145.02	5,006.57	4,917.71	88.86	56.343		
18,100.00	13,108.00	21,477.00	13,024.85	85.00	130.71	-52.037	-554.53	-145.02	5,106.53	5,017.60	88.93	57.424		
18,200.00	13,108.00	21,477.00	13,024.85	86.38	130.71	-52.037	-554.53	-145.02	5,206.50	5,117.50	89.00	58.502		
18,300.00	13,108.00	21,477.00	13,024.85	87.76	130.71	-52.037	-554.53	-145.02	5,306.46	5,217.40	89.07	59.578		
18,400.00	13,108.00	21,477.00	13,024.85	89.14	130.71	-52.037	-554.53	-145.02	5,406.43	5,317.29	89.14	60.651		
18,500.00	13,108.00	21,477.00	13,024.85	90.52	130.71	-52.037	-554.53	-145.02	5,506.40	5,417.19	89.21	61.721		
18,600.00	13,108.00	21,477.00	13,024.85	91.90	130.71	-52.037	-554.53	-145.02	5,606.37	5,517.08	89.29	62.789		
18,700.00	13,108.00	21,477.00	13,024.85	93.29	130.71	-52.037	-554.53	-145.02	5,706.34	5,616.98	89.37	63.853		
18,800.00	13,108.00	21,477.00	13,024.85	94.68	130.71	-52.037	-554.53	-145.02	5,806.31	5,716.87	89.44	64.915		
18,900.00	13,108.00	21,477.00	13,024.85	96.06	130.71	-52.037	-554.53	-145.02	5,906.29	5,816.76	89.52	65.974		
19,000.00	13,108.00	21,477.00	13,024.85	97.46	130.71	-52.037	-554.53	-145.02	6,006.26	5,916.66	89.61	67.030		
19,100.00	13,108.00	21,477.00	13,024.85	98.85	130.71	-52.037	-554.53	-145.02	6,106.24	6,016.55	89.69	68.083		

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 512H - OH / 68637 - Surveys (H&P 625)													Offset Site Error:	0.00 usft
Survey Program:		124-MWD+HDGM					Rule Assigned:						Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,200.00	13,108.00	21,477.00	13,024.85	100.24	130.71	-52.037	-554.53	-145.02	6,206.21	6,116.44	89.77	69.133		
19,300.00	13,108.00	21,477.00	13,024.85	101.64	130.71	-52.037	-554.53	-145.02	6,306.19	6,216.33	89.86	70.180		
19,400.00	13,108.00	21,477.00	13,024.85	103.03	130.71	-52.037	-554.53	-145.02	6,406.17	6,316.22	89.94	71.224		
19,500.00	13,108.00	21,477.00	13,024.85	104.43	130.71	-52.037	-554.53	-145.02	6,506.15	6,416.11	90.03	72.265		
19,600.00	13,108.00	21,477.00	13,024.85	105.83	130.71	-52.037	-554.53	-145.02	6,606.12	6,516.00	90.12	73.303		
19,700.00	13,108.00	21,477.00	13,024.85	107.23	130.71	-52.037	-554.53	-145.02	6,706.10	6,615.89	90.21	74.337		
19,800.00	13,108.00	21,477.00	13,024.85	108.63	130.71	-52.037	-554.53	-145.02	6,806.08	6,715.78	90.30	75.369		
19,900.00	13,108.00	21,477.00	13,024.85	110.03	130.71	-52.037	-554.53	-145.02	6,906.06	6,815.67	90.40	76.398		
20,000.00	13,108.00	21,477.00	13,024.85	111.43	130.71	-52.037	-554.53	-145.02	7,006.05	6,915.55	90.49	77.423		
20,100.00	13,108.00	21,477.00	13,024.85	112.84	130.71	-52.037	-554.53	-145.02	7,106.03	7,015.44	90.59	78.445		
20,200.00	13,108.00	21,477.00	13,024.85	114.24	130.71	-52.037	-554.53	-145.02	7,206.01	7,115.33	90.68	79.465		
20,300.00	13,108.00	21,477.00	13,024.85	115.65	130.71	-52.037	-554.53	-145.02	7,305.99	7,215.21	90.78	80.480		
20,400.00	13,108.00	21,477.00	13,024.85	117.05	130.71	-52.037	-554.53	-145.02	7,405.97	7,315.10	90.88	81.493		
20,500.00	13,108.00	21,477.00	13,024.85	118.46	130.71	-52.037	-554.53	-145.02	7,505.96	7,414.98	90.98	82.503		
20,600.00	13,108.00	21,477.00	13,024.85	119.87	130.71	-52.037	-554.53	-145.02	7,605.94	7,514.86	91.08	83.509		
20,700.00	13,108.00	21,477.00	13,024.85	121.28	130.71	-52.037	-554.53	-145.02	7,705.93	7,614.75	91.18	84.512		
20,800.00	13,108.00	21,477.00	13,024.85	122.68	130.71	-52.037	-554.53	-145.02	7,805.91	7,714.63	91.28	85.512		
20,900.00	13,108.00	21,477.00	13,024.85	124.09	130.71	-52.037	-554.53	-145.02	7,905.90	7,814.51	91.39	86.508		
21,000.00	13,108.00	21,477.00	13,024.85	125.51	130.71	-52.037	-554.53	-145.02	8,005.88	7,914.39	91.49	87.501		
21,100.00	13,108.00	21,477.00	13,024.85	126.92	130.71	-52.037	-554.53	-145.02	8,105.87	8,014.27	91.60	88.491		
21,200.00	13,108.00	21,477.00	13,024.85	128.33	130.71	-52.037	-554.53	-145.02	8,205.85	8,114.15	91.71	89.477		
21,300.00	13,108.00	21,477.00	13,024.85	129.74	130.71	-52.037	-554.53	-145.02	8,305.84	8,214.02	91.82	90.461		
21,400.00	13,108.00	21,477.00	13,024.85	131.15	130.71	-52.037	-554.53	-145.02	8,405.83	8,313.90	91.93	91.440		
21,500.00	13,108.00	21,477.00	13,024.85	132.57	130.71	-52.037	-554.53	-145.02	8,505.82	8,413.78	92.04	92.417		
21,600.00	13,108.00	21,477.00	13,024.85	133.98	130.71	-52.037	-554.53	-145.02	8,605.80	8,513.65	92.15	93.390		
21,700.00	13,108.00	21,477.00	13,024.85	135.39	130.71	-52.037	-554.53	-145.02	8,705.79	8,613.53	92.26	94.360		
21,800.00	13,108.00	21,477.00	13,024.85	136.81	130.71	-52.037	-554.53	-145.02	8,805.78	8,713.40	92.38	95.326		
21,900.00	13,108.00	21,477.00	13,024.85	138.22	130.71	-52.037	-554.53	-145.02	8,905.77	8,813.28	92.49	96.289		
22,000.00	13,108.00	21,477.00	13,024.85	139.64	130.71	-52.037	-554.53	-145.02	9,005.76	8,913.15	92.61	97.249		
22,100.00	13,108.00	21,477.00	13,024.85	141.06	130.71	-52.037	-554.53	-145.02	9,105.74	9,013.02	92.72	98.205		
22,200.00	13,108.00	21,477.00	13,024.85	142.47	130.71	-52.037	-554.53	-145.02	9,205.73	9,112.89	92.84	99.158		
22,300.00	13,108.00	21,477.00	13,024.85	143.89	130.71	-52.037	-554.53	-145.02	9,305.72	9,212.76	92.96	100.107		
22,400.00	13,108.00	21,477.00	13,024.85	145.31	130.71	-52.037	-554.53	-145.02	9,405.71	9,312.64	93.08	101.053		
22,500.00	13,108.00	21,477.00	13,024.85	146.72	130.71	-52.037	-554.53	-145.02	9,505.70	9,412.50	93.20	101.995		
22,600.00	13,108.00	21,477.00	13,024.85	148.14	130.71	-52.037	-554.53	-145.02	9,605.69	9,512.37	93.32	102.934		
22,700.00	13,108.00	21,477.00	13,024.85	149.56	130.71	-52.037	-554.53	-145.02	9,705.68	9,612.24	93.44	103.870		
22,800.00	13,108.00	21,477.00	13,024.85	150.98	130.71	-52.037	-554.53	-145.02	9,805.67	9,712.11	93.56	104.802		
22,900.00	13,108.00	21,477.00	13,024.85	152.40	130.71	-52.037	-554.53	-145.02	9,905.66	9,811.98	93.69	105.731		
23,000.00	13,108.00	21,477.00	13,024.85	153.82	130.71	-52.037	-554.53	-145.02	10,005.65	9,911.84	93.81	106.656		
23,100.00	13,108.00	21,477.00	13,024.85	155.24	130.71	-52.037	-554.53	-145.02	10,105.65	10,011.71	93.94	107.578		
23,200.00	13,108.00	21,477.00	13,024.85	156.66	130.71	-52.037	-554.53	-145.02	10,205.64	10,111.57	94.06	108.496		
23,247.14	13,108.00	21,477.00	13,024.85	157.33	130.71	-52.037	-554.53	-145.02	10,252.77	10,158.64	94.12	108.928		

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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
0.00	0.00	42.98	-10.02	1.00	1.00	8.285	7,916.57	1,152.78	8,000.07				
100.00	100.00	124.08	71.07	1.08	1.02	8.280	7,916.87	1,152.11	8,000.31	7,998.21	2.10	3,805.375	
200.00	200.00	188.00	134.99	1.60	1.04	8.272	7,917.30	1,151.12	8,000.81	7,998.17	2.64	3,030.652	
300.00	300.00	278.60	225.57	2.01	1.18	8.259	7,918.24	1,149.32	8,001.56	7,998.38	3.18	2,512.807	
400.00	400.00	339.00	285.94	2.35	1.30	8.248	7,919.08	1,147.99	8,002.67	7,999.02	3.65	2,189.845	
500.00	500.00	425.19	372.08	2.65	1.52	8.230	7,920.63	1,145.65	8,004.08	7,999.90	4.17	1,917.470	
600.00	600.00	1,235.00	1,180.46	2.93	4.09	8.308	7,892.61	1,152.46	7,997.40	7,990.40	6.99	1,143.384	
700.00	700.00	1,307.50	1,252.67	3.18	4.35	8.329	7,886.45	1,154.60	7,989.66	7,982.16	7.50	1,065.841	
800.00	800.00	1,337.18	1,282.27	3.41	4.45	8.337	7,884.39	1,155.40	7,983.18	7,975.34	7.83	1,018.961	
900.00	900.00	1,425.00	1,369.94	3.64	4.76	8.356	7,879.88	1,157.47	7,978.28	7,969.92	8.36	954.296	
1,000.00	1,000.00	1,425.00	1,369.94	3.85	4.76	8.356	7,879.88	1,157.47	7,973.02	7,964.45	8.57	929.958	
1,100.00	1,100.00	1,425.00	1,369.94	4.05	4.76	8.356	7,879.88	1,157.47	7,969.01	7,960.23	8.78	907.958	
1,200.00	1,200.00	1,425.00	1,369.94	4.24	4.76	8.356	7,879.88	1,157.47	7,966.24	7,957.27	8.97	887.950	
1,300.00	1,300.00	1,425.00	1,369.94	4.43	4.76	8.356	7,879.88	1,157.47	7,964.74	7,955.58	9.16	869.660	
1,400.00	1,400.00	1,502.70	1,447.61	4.61	5.02	8.367	7,878.10	1,158.72	7,963.00	7,953.40	9.60	829.289	
1,463.91	1,463.91	1,519.00	1,463.91	4.72	5.08	8.368	7,878.03	1,158.89	7,962.81	7,953.04	9.77	815.112	
1,500.00	1,500.00	1,528.21	1,473.12	4.78	5.11	8.369	7,878.03	1,158.97	7,962.87	7,953.01	9.86	807.340	
1,600.00	1,599.98	1,614.00	1,558.89	4.99	5.40	158.167	7,879.66	1,159.18	7,966.19	7,955.86	10.34	770.714	
1,638.42	1,638.36	1,614.00	1,558.89	5.04	5.40	158.154	7,879.66	1,159.18	7,967.97	7,957.58	10.38	767.296	
1,700.00	1,699.87	1,614.00	1,558.89	5.10	5.40	158.154	7,879.66	1,159.18	7,971.58	7,961.14	10.44	763.446	
1,800.00	1,799.76	1,614.00	1,558.89	5.26	5.40	158.154	7,879.66	1,159.18	7,978.45	7,967.86	10.59	753.504	
1,900.00	1,899.64	1,688.14	1,632.98	5.44	5.65	158.159	7,882.24	1,158.98	7,986.28	7,975.27	11.01	725.208	
2,000.00	1,999.52	1,806.09	1,750.87	5.64	6.04	158.169	7,886.12	1,158.75	7,993.99	7,982.39	11.60	689.224	
2,100.00	2,099.41	1,803.00	1,747.78	5.84	6.03	158.169	7,886.02	1,158.76	8,002.24	7,990.45	11.78	679.222	
2,200.00	2,199.29	1,894.13	1,838.84	6.07	6.34	158.173	7,889.60	1,158.31	8,010.58	7,998.28	12.30	651.270	
2,300.00	2,299.17	1,939.03	1,883.67	6.30	6.49	158.174	7,891.86	1,157.86	8,019.89	8,007.22	12.67	633.153	
2,400.00	2,399.06	1,992.00	1,936.55	6.54	6.67	158.172	7,894.96	1,157.14	8,029.89	8,016.83	13.07	614.431	
2,500.00	2,498.94	2,114.53	2,058.85	6.79	7.09	158.166	7,902.35	1,155.16	8,040.12	8,026.40	13.73	585.794	
2,600.00	2,598.82	2,237.12	2,181.22	7.04	7.51	158.160	7,909.18	1,153.12	8,049.85	8,035.46	14.39	559.403	
2,700.00	2,698.71	2,337.37	2,281.32	7.31	7.86	158.158	7,914.62	1,151.83	8,059.51	8,044.52	14.98	537.896	
2,800.00	2,798.59	2,448.35	2,392.14	7.58	8.25	158.159	7,920.52	1,150.82	8,069.11	8,053.49	15.62	516.540	
2,900.00	2,898.47	2,548.28	2,491.93	7.85	8.60	158.161	7,925.70	1,150.06	8,078.60	8,062.38	16.23	497.871	
3,000.00	2,998.36	2,645.25	2,588.77	8.13	8.94	158.165	7,930.73	1,149.54	8,088.12	8,071.30	16.83	480.720	
3,100.00	3,098.24	2,725.71	2,669.12	8.41	9.22	158.170	7,934.95	1,149.43	8,097.77	8,080.40	17.37	466.224	
3,200.00	3,198.12	2,804.28	2,747.57	8.70	9.50	158.179	7,939.20	1,149.87	8,107.67	8,089.76	17.91	452.704	
3,300.00	3,298.01	2,887.31	2,830.47	8.99	9.79	158.192	7,943.81	1,150.89	8,117.82	8,099.35	18.47	439.523	
3,400.00	3,397.89	2,974.94	2,917.95	9.28	10.10	158.207	7,948.77	1,152.30	8,128.12	8,109.07	19.05	426.683	
3,500.00	3,497.77	3,033.00	2,975.90	9.58	10.30	158.219	7,952.10	1,153.39	8,138.63	8,119.11	19.52	416.848	
3,600.00	3,597.66	3,122.75	3,065.47	9.88	10.62	158.233	7,957.60	1,154.63	8,149.39	8,129.27	20.12	405.078	
3,700.00	3,697.54	3,189.82	3,132.39	10.18	10.86	158.239	7,962.13	1,154.84	8,160.59	8,139.96	20.63	395.561	
3,800.00	3,797.42	3,256.61	3,199.00	10.49	11.10	158.240	7,966.98	1,154.55	8,172.18	8,151.04	21.14	386.507	
3,900.00	3,897.31	3,323.13	3,265.32	10.79	11.34	158.243	7,972.05	1,154.48	8,184.17	8,162.51	21.66	377.886	
4,000.00	3,997.19	3,411.00	3,352.91	11.10	11.65	158.249	7,979.09	1,154.86	8,196.60	8,174.34	22.25	368.337	
4,100.00	4,097.07	3,454.56	3,396.32	11.41	11.81	158.253	7,982.73	1,155.26	8,209.35	8,186.66	22.68	361.898	
4,200.00	4,196.96	3,518.81	3,460.33	11.72	12.04	158.262	7,988.28	1,156.12	8,222.56	8,199.36	23.19	354.518	
4,300.00	4,296.84	4,357.00	4,297.17	12.03	15.00	158.347	8,023.41	1,158.54	8,229.08	8,202.56	26.52	310.306	
4,400.00	4,396.72	4,455.17	4,395.30	12.35	15.34	158.341	8,023.64	1,155.92	8,233.41	8,206.25	27.15	303.204	
4,500.00	4,496.61	4,547.00	4,487.10	12.66	15.66	158.334	8,024.19	1,153.41	8,238.08	8,210.31	27.77	296.664	
4,600.00	4,596.49	4,603.77	4,543.85	12.98	15.86	158.332	8,024.68	1,152.09	8,243.01	8,214.75	28.26	291.650	
4,700.00	4,696.37	4,695.73	4,635.79	13.29	16.18	158.334	8,025.56	1,150.94	8,248.25	8,219.37	28.88	285.574	
4,800.00	4,796.26	4,810.75	4,750.81	13.61	16.59	158.346	8,026.34	1,150.67	8,253.38	8,223.80	29.59	278.965	
4,900.00	4,896.14	20,819.00	13,031.93	13.93	122.35	-140.004	95.80	1,314.04	8,257.85	8,180.33	77.52	106.525	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 513H - OH / 68705 - Surveys (H&P 656)													Offset Site Error:	0.00 usft
Survey Program:		188-MWD+HDGM					Rule Assigned:						Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,000.00	4,996.02	20,819.00	13,031.93	14.25	122.35	-140.004	95.80	1,314.04	8,160.00	8,082.24	77.75	104.949		
5,100.00	5,095.91	20,819.00	13,031.93	14.57	122.35	-140.004	95.80	1,314.04	8,062.20	7,984.21	77.99	103.377		
5,200.00	5,195.79	20,819.00	13,031.93	14.89	122.35	-140.004	95.80	1,314.04	7,964.45	7,886.22	78.23	101.808		
5,300.00	5,295.67	20,819.00	13,031.93	15.21	122.35	-140.004	95.80	1,314.04	7,866.76	7,788.29	78.48	100.244		
5,400.00	5,395.56	20,819.00	13,031.93	15.54	122.35	-140.004	95.80	1,314.04	7,769.14	7,690.41	78.73	98.683		
5,500.00	5,495.44	20,819.00	13,031.93	15.86	122.35	-140.004	95.80	1,314.04	7,671.57	7,592.58	78.99	97.126		
5,600.00	5,595.32	20,819.00	13,031.93	16.19	122.35	-140.004	95.80	1,314.04	7,574.06	7,494.81	79.25	95.574		
5,700.00	5,695.21	20,819.00	13,031.93	16.51	122.35	-140.004	95.80	1,314.04	7,476.62	7,397.11	79.52	94.025		
5,800.00	5,795.09	20,819.00	13,031.93	16.83	122.35	-140.004	95.80	1,314.04	7,379.25	7,299.46	79.79	92.482		
5,900.00	5,894.97	20,819.00	13,031.93	17.16	122.35	-140.004	95.80	1,314.04	7,281.95	7,201.88	80.07	90.942		
6,000.00	5,994.86	20,819.00	13,031.93	17.49	122.35	-140.004	95.80	1,314.04	7,184.73	7,104.37	80.36	89.408		
6,100.00	6,094.74	20,819.00	13,031.93	17.81	122.35	-140.004	95.80	1,314.04	7,087.58	7,006.93	80.65	87.878		
6,200.00	6,194.62	20,819.00	13,031.93	18.14	122.35	-140.004	95.80	1,314.04	6,990.51	6,909.56	80.95	86.354		
6,300.00	6,294.51	20,819.00	13,031.93	18.47	122.35	-140.004	95.80	1,314.04	6,893.53	6,812.27	81.26	84.834		
6,400.00	6,394.39	20,819.00	13,031.93	18.79	122.35	-140.004	95.80	1,314.04	6,796.63	6,715.06	81.57	83.320		
6,500.00	6,494.27	20,819.00	13,031.93	19.12	122.35	-140.004	95.80	1,314.04	6,699.83	6,617.94	81.89	81.811		
6,600.00	6,594.16	20,819.00	13,031.93	19.45	122.35	-140.004	95.80	1,314.04	6,603.12	6,520.90	82.22	80.307		
6,700.00	6,694.04	20,862.08	13,031.93	19.78	122.93	-138.606	52.75	1,315.47	6,504.92	6,422.01	82.91	78.461		
6,800.00	6,793.92	20,862.74	13,031.95	20.11	122.94	-138.585	52.09	1,315.50	6,408.36	6,325.10	83.26	76.970		
6,900.00	6,893.81	20,863.42	13,031.98	20.44	122.95	-138.562	51.41	1,315.53	6,311.91	6,228.29	83.62	75.486		
7,000.00	6,993.69	20,864.12	13,032.00	20.77	122.96	-138.539	50.71	1,315.56	6,215.57	6,131.58	83.99	74.008		
7,100.00	7,093.57	20,864.84	13,032.03	21.10	122.96	-138.516	49.99	1,315.59	6,119.34	6,034.98	84.36	72.536		
7,200.00	7,193.46	21,195.00	13,035.95	21.43	127.42	-127.227	-279.24	1,334.08	6,024.95	5,937.52	87.43	68.913		
7,300.00	7,293.34	21,195.00	13,035.95	21.76	127.42	-127.227	-279.24	1,334.08	5,928.72	5,840.89	87.82	67.507		
7,400.00	7,393.22	21,195.00	13,035.95	22.09	127.42	-127.227	-279.24	1,334.08	5,832.61	5,744.38	88.23	66.107		
7,500.00	7,493.11	21,195.00	13,035.95	22.42	127.42	-127.227	-279.24	1,334.08	5,736.63	5,647.99	88.65	64.713		
7,600.00	7,592.99	21,195.00	13,035.95	22.75	127.42	-127.227	-279.24	1,334.08	5,640.80	5,551.72	89.08	63.325		
7,700.00	7,692.87	21,195.00	13,035.95	23.08	127.42	-127.227	-279.24	1,334.08	5,545.11	5,455.59	89.52	61.944		
7,800.00	7,792.76	21,195.00	13,035.95	23.41	127.42	-127.227	-279.24	1,334.08	5,449.58	5,359.61	89.97	60.570		
7,900.00	7,892.64	21,195.00	13,035.95	23.74	127.42	-127.227	-279.24	1,334.08	5,354.21	5,263.77	90.44	59.203		
8,000.00	7,992.52	21,195.00	13,035.95	24.07	127.42	-127.227	-279.24	1,334.08	5,259.01	5,168.09	90.92	57.842		
8,100.00	8,092.41	21,195.00	13,035.95	24.40	127.42	-127.227	-279.24	1,334.08	5,163.99	5,072.58	91.42	56.489		
8,200.00	8,192.29	21,195.00	13,035.95	24.74	127.42	-127.227	-279.24	1,334.08	5,069.17	4,977.24	91.93	55.143		
8,300.00	8,292.17	21,195.00	13,035.95	25.07	127.42	-127.227	-279.24	1,334.08	4,974.54	4,882.09	92.45	53.805		
8,400.00	8,392.06	21,195.00	13,035.95	25.40	127.42	-127.227	-279.24	1,334.08	4,880.14	4,787.14	93.00	52.475		
8,500.00	8,491.94	21,195.00	13,035.95	25.73	127.42	-127.227	-279.24	1,334.08	4,785.96	4,692.39	93.56	51.152		
8,600.00	8,591.82	21,195.00	13,035.95	26.07	127.42	-127.227	-279.24	1,334.08	4,692.02	4,597.87	94.15	49.838		
8,700.00	8,691.71	21,195.00	13,035.95	26.40	127.42	-127.227	-279.24	1,334.08	4,598.33	4,503.58	94.75	48.532		
8,800.00	8,791.59	21,195.00	13,035.95	26.73	127.42	-127.227	-279.24	1,334.08	4,504.92	4,409.55	95.37	47.235		
8,900.00	8,891.47	21,195.00	13,035.95	27.06	127.42	-127.227	-279.24	1,334.08	4,411.80	4,315.78	96.02	45.946		
9,000.00	8,991.36	21,195.00	13,035.95	27.40	127.42	-127.227	-279.24	1,334.08	4,318.98	4,222.29	96.69	44.667		
9,100.00	9,091.24	21,195.00	13,035.95	27.73	127.42	-127.227	-279.24	1,334.08	4,226.49	4,129.10	97.39	43.397		
9,200.00	9,191.12	21,195.00	13,035.95	28.06	127.42	-127.227	-279.24	1,334.08	4,134.35	4,036.24	98.12	42.137		
9,300.00	9,291.01	21,195.00	13,035.95	28.40	127.42	-127.227	-279.24	1,334.08	4,042.59	3,943.72	98.87	40.888		
9,400.00	9,390.89	21,195.00	13,035.95	28.73	127.42	-127.227	-279.24	1,334.08	3,951.22	3,851.56	99.66	39.649		
9,500.00	9,490.77	21,195.00	13,035.95	29.06	127.42	-127.227	-279.24	1,334.08	3,860.28	3,759.81	100.47	38.420		
9,600.00	9,590.66	21,195.00	13,035.95	29.40	127.42	-127.227	-279.24	1,334.08	3,769.80	3,668.48	101.33	37.204		
9,700.00	9,690.54	21,195.00	13,035.95	29.73	127.42	-127.227	-279.24	1,334.08	3,679.82	3,577.60	102.22	35.999		
9,800.00	9,790.42	21,195.00	13,035.95	30.06	127.42	-127.227	-279.24	1,334.08	3,590.36	3,487.21	103.15	34.806		
9,900.00	9,890.31	21,226.89	13,035.39	30.40	127.85	-126.105	-311.10	1,335.33	3,501.05	3,396.66	104.39	33.539		
10,000.00	9,990.19	21,227.89	13,035.38	30.73	127.86	-126.070	-312.09	1,335.38	3,412.75	3,307.33	105.42	32.374		
10,100.00	10,090.07	21,228.91	13,035.37	31.07	127.88	-126.034	-313.12	1,335.43	3,325.11	3,218.61	106.49	31.224		

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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+H2GM													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	
10,200.00	10,189.96	21,229.96	13,035.36	31.40	127.89	-125.997	-314.16	1,335.48	3,238.18	3,130.56	107.62	30.088	
10,300.00	10,289.84	21,231.03	13,035.35	31.74	127.90	-125.959	-315.24	1,335.53	3,152.03	3,043.22	108.81	28.969	
10,400.00	10,389.72	21,232.14	13,035.34	32.07	127.92	-125.920	-316.34	1,335.59	3,066.71	2,956.66	110.05	27.867	
10,500.00	10,489.60	21,233.27	13,035.33	32.40	127.93	-125.880	-317.47	1,335.65	2,982.31	2,870.96	111.35	26.782	
10,600.00	10,589.49	21,234.43	13,035.32	32.74	127.95	-125.839	-318.63	1,335.71	2,898.90	2,786.18	112.72	25.717	
10,700.00	10,689.37	21,235.62	13,035.31	33.07	127.97	-125.797	-319.82	1,335.77	2,816.57	2,702.41	114.16	24.671	
10,800.00	10,789.25	21,236.85	13,035.30	33.41	127.98	-125.754	-321.05	1,335.83	2,735.42	2,619.74	115.68	23.647	
10,900.00	10,889.14	21,238.11	13,035.29	33.74	128.00	-125.709	-322.30	1,335.90	2,655.55	2,538.29	117.26	22.646	
11,000.00	10,989.02	21,239.41	13,035.28	34.08	128.02	-125.664	-323.60	1,335.97	2,577.08	2,458.16	118.93	21.669	
11,100.00	11,088.90	21,240.74	13,035.27	34.41	128.04	-125.617	-324.93	1,336.04	2,500.15	2,379.48	120.67	20.719	
11,200.00	11,188.79	21,242.11	13,035.26	34.75	128.05	-125.568	-326.30	1,336.11	2,424.91	2,302.41	122.50	19.796	
11,300.00	11,288.67	21,243.52	13,035.25	35.08	128.07	-125.518	-327.71	1,336.19	2,351.50	2,227.10	124.40	18.902	
11,400.00	11,388.55	21,244.98	13,035.25	35.42	128.09	-125.467	-329.16	1,336.27	2,280.12	2,153.73	126.39	18.040	
11,500.00	11,488.44	21,246.48	13,035.24	35.75	128.11	-125.414	-330.66	1,336.36	2,210.95	2,082.50	128.46	17.212	
11,600.00	11,588.32	21,248.02	13,035.23	36.09	128.13	-125.360	-332.20	1,336.45	2,144.22	2,013.63	130.59	16.420	
11,700.00	11,688.20	21,249.61	13,035.23	36.42	128.16	-125.304	-333.79	1,336.54	2,080.15	1,947.36	132.78	15.666	
11,800.00	11,788.09	21,251.25	13,035.22	36.76	128.18	-125.246	-335.43	1,336.64	2,019.00	1,883.97	135.03	14.952	
11,900.00	11,887.97	21,252.95	13,035.22	37.09	128.20	-125.186	-337.12	1,336.74	1,961.04	1,823.73	137.31	14.282	
11,908.72	11,896.68	21,253.10	13,035.22	37.12	128.20	-125.180	-337.27	1,336.75	1,956.15	1,818.64	137.51	14.226	
12,000.00	11,987.91	21,254.15	13,035.22	37.41	128.22	-124.152	-338.32	1,336.81	1,905.86	1,766.29	139.57	13.655	
12,047.14	12,035.04	21,254.27	13,035.22	37.47	128.22	86.541	-338.44	1,336.82	1,880.55	1,739.98	140.57	13.378	
12,100.00	12,087.91	21,254.24	13,035.22	37.47	128.22	86.540	-338.41	1,336.82	1,852.98	1,711.33	141.65	13.081	
12,200.00	12,187.91	21,254.18	13,035.22	37.48	128.22	86.538	-338.34	1,336.81	1,803.90	1,660.25	143.66	12.557	
12,300.00	12,287.91	21,254.12	13,035.22	37.48	128.22	86.535	-338.28	1,336.81	1,759.15	1,613.58	145.57	12.084	
12,400.00	12,387.91	21,254.05	13,035.22	37.49	128.22	86.533	-338.22	1,336.81	1,719.05	1,571.69	147.36	11.666	
12,500.00	12,487.91	21,253.98	13,035.22	37.50	128.21	86.531	-338.15	1,336.80	1,683.95	1,534.97	148.98	11.303	
12,547.14	12,535.04	21,253.95	13,035.22	37.49	128.21	86.529	-338.12	1,336.80	1,669.22	1,519.56	149.67	11.153	
12,550.00	12,537.91	21,253.95	13,035.22	37.50	128.21	-92.985	-338.12	1,336.80	1,668.37	1,518.66	149.71	11.144	
12,600.00	12,587.83	21,255.15	13,035.22	37.64	128.23	-94.406	-339.31	1,336.87	1,654.29	1,503.85	150.44	10.996	
12,650.00	12,637.36	21,258.59	13,035.22	37.90	128.28	-95.554	-342.75	1,337.09	1,641.94	1,490.76	151.18	10.861	
12,700.00	12,686.10	21,264.30	13,035.22	38.17	128.35	-96.427	-348.45	1,337.46	1,631.40	1,479.50	151.91	10.739	
12,750.00	12,733.70	21,289.00	13,035.40	38.46	128.69	-96.469	-373.08	1,339.25	1,622.93	1,470.23	152.70	10.628	
12,800.00	12,779.78	21,289.00	13,035.40	38.75	128.69	-97.155	-373.08	1,339.25	1,616.09	1,462.71	153.38	10.537	
12,850.00	12,824.00	21,298.76	13,035.51	39.03	128.82	-97.333	-382.81	1,340.02	1,611.27	1,457.20	154.07	10.458	
12,900.00	12,866.02	21,321.71	13,035.71	39.31	129.13	-96.950	-405.68	1,341.89	1,608.25	1,453.44	154.80	10.389	
12,950.00	12,905.52	21,347.39	13,035.86	39.57	129.48	-96.367	-431.27	1,344.07	1,606.86	1,451.33	155.53	10.331	
12,971.08	12,921.35	21,358.98	13,035.90	39.68	129.64	-96.070	-442.82	1,345.08	1,606.73	1,450.89	155.84	10.310 CC	
13,000.00	12,942.21	21,375.59	13,035.93	39.82	129.86	-95.619	-459.36	1,346.56	1,606.96	1,450.70	156.26	10.284 ES	
13,050.00	12,975.79	21,410.73	13,035.92	40.06	130.34	-94.637	-494.35	1,349.77	1,608.36	1,451.35	157.02	10.243	
13,100.00	13,006.02	21,450.39	13,035.90	40.27	130.88	-93.540	-533.85	1,353.40	1,610.76	1,452.96	157.80	10.208	
13,150.00	13,032.66	21,474.00	13,035.88	40.46	131.20	-92.748	-557.36	1,355.56	1,614.04	1,455.55	158.49	10.184	
13,200.00	13,055.52	21,474.00	13,035.88	40.63	131.20	-92.261	-557.36	1,355.56	1,618.89	1,459.89	159.00	10.182 SF	
13,250.00	13,074.42	21,474.00	13,035.88	40.77	131.20	-91.601	-557.36	1,355.56	1,625.44	1,466.01	159.42	10.196	
13,300.00	13,089.21	21,474.00	13,035.88	40.89	131.20	-90.773	-557.36	1,355.56	1,633.60	1,473.84	159.76	10.225	
13,350.00	13,099.79	21,474.00	13,035.88	40.99	131.20	-89.783	-557.36	1,355.56	1,643.31	1,483.31	160.00	10.271	
13,400.00	13,106.06	21,474.00	13,035.88	41.06	131.20	-88.640	-557.36	1,355.56	1,654.46	1,494.31	160.15	10.331	
13,447.14	13,108.00	21,474.00	13,035.88	41.11	131.20	-87.431	-557.36	1,355.56	1,666.18	1,505.98	160.20	10.401	
13,500.00	13,108.00	21,474.00	13,035.88	41.15	131.20	-87.431	-557.36	1,355.56	1,680.72	1,520.58	160.15	10.495	
13,600.00	13,108.00	21,474.00	13,035.88	41.25	131.20	-87.431	-557.36	1,355.56	1,712.37	1,552.61	159.76	10.718	
13,700.00	13,108.00	21,474.00	13,035.88	41.37	131.20	-87.431	-557.36	1,355.56	1,749.16	1,590.14	159.02	11.000	
13,800.00	13,108.00	21,474.00	13,035.88	41.51	131.20	-87.431	-557.36	1,355.56	1,790.79	1,632.81	157.98	11.336	
13,900.00	13,108.00	21,474.00	13,035.88	41.67	131.20	-87.431	-557.36	1,355.56	1,836.93	1,680.24	156.69	11.724	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 513H - OH / 68705 - Surveys (H&P 656)													Offset Site Error:	0.00 usft
Survey Program:		188-MWD+HDGM					Rule Assigned:				Offset Well Error:	1.00 usft		
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance				Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,000.00	13,108.00	21,474.00	13,035.88	41.87	131.20	-87.431	-557.36	1,355.56	1,887.24	1,732.05	155.19	12.161		
14,100.00	13,108.00	21,474.00	13,035.88	42.10	131.20	-87.431	-557.36	1,355.56	1,941.40	1,787.86	153.55	12.644		
14,200.00	13,108.00	21,474.00	13,035.88	42.37	131.20	-87.431	-557.36	1,355.56	1,999.10	1,847.32	151.79	13.171		
14,300.00	13,108.00	21,474.00	13,035.88	42.69	131.20	-87.431	-557.36	1,355.56	2,060.04	1,910.09	149.95	13.738		
14,400.00	13,108.00	21,474.00	13,035.88	43.06	131.20	-87.431	-557.36	1,355.56	2,123.95	1,975.87	148.08	14.344		
14,500.00	13,108.00	21,474.00	13,035.88	43.48	131.20	-87.431	-557.36	1,355.56	2,190.55	2,044.37	146.19	14.985		
14,600.00	13,108.00	21,474.00	13,035.88	43.97	131.20	-87.431	-557.36	1,355.56	2,259.62	2,115.32	144.30	15.659		
14,700.00	13,108.00	21,474.00	13,035.88	44.53	131.20	-87.431	-557.36	1,355.56	2,330.94	2,188.49	142.44	16.364		
14,800.00	13,108.00	21,474.00	13,035.88	45.16	131.20	-87.431	-557.36	1,355.56	2,404.29	2,263.68	140.62	17.098		
14,900.00	13,108.00	21,474.00	13,035.88	45.87	131.20	-87.431	-557.36	1,355.56	2,479.52	2,340.68	138.84	17.859		
15,000.00	13,108.00	21,474.00	13,035.88	46.64	131.20	-87.431	-557.36	1,355.56	2,556.44	2,419.32	137.11	18.645		
15,100.00	13,108.00	21,474.00	13,035.88	47.49	131.20	-87.431	-557.36	1,355.56	2,634.91	2,499.46	135.45	19.453		
15,200.00	13,108.00	21,474.00	13,035.88	48.39	131.20	-87.431	-557.36	1,355.56	2,714.79	2,580.95	133.85	20.283		
15,300.00	13,108.00	21,474.00	13,035.88	49.36	131.20	-87.431	-557.36	1,355.56	2,795.97	2,663.67	132.31	21.132		
15,400.00	13,108.00	21,474.00	13,035.88	50.38	131.20	-87.431	-557.36	1,355.56	2,878.34	2,747.51	130.83	22.000		
15,500.00	13,108.00	21,474.00	13,035.88	51.44	131.20	-87.431	-557.36	1,355.56	2,961.79	2,832.37	129.43	22.884		
15,600.00	13,108.00	21,474.00	13,035.88	52.54	131.20	-87.431	-557.36	1,355.56	3,046.24	2,918.16	128.08	23.784		
15,700.00	13,108.00	21,474.00	13,035.88	53.67	131.20	-87.431	-557.36	1,355.56	3,131.60	3,004.80	126.80	24.697		
15,800.00	13,108.00	21,474.00	13,035.88	54.84	131.20	-87.431	-557.36	1,355.56	3,217.81	3,092.23	125.58	25.624		
15,900.00	13,108.00	21,474.00	13,035.88	56.02	131.20	-87.431	-557.36	1,355.56	3,304.80	3,180.38	124.42	26.562		
16,000.00	13,108.00	21,474.00	13,035.88	57.24	131.20	-87.431	-557.36	1,355.56	3,392.50	3,269.19	123.31	27.512		
16,100.00	13,108.00	21,474.00	13,035.88	58.47	131.20	-87.431	-557.36	1,355.56	3,480.87	3,358.61	122.26	28.471		
16,200.00	13,108.00	21,474.00	13,035.88	59.71	131.20	-87.431	-557.36	1,355.56	3,569.84	3,448.58	121.26	29.439		
16,300.00	13,108.00	21,474.00	13,035.88	60.97	131.20	-87.431	-557.36	1,355.56	3,659.39	3,539.08	120.31	30.416		
16,400.00	13,108.00	21,474.00	13,035.88	62.25	131.20	-87.431	-557.36	1,355.56	3,749.47	3,630.06	119.41	31.400		
16,500.00	13,108.00	21,474.00	13,035.88	63.53	131.20	-87.431	-557.36	1,355.56	3,840.04	3,721.49	118.55	32.391		
16,600.00	13,108.00	21,474.00	13,035.88	64.83	131.20	-87.431	-557.36	1,355.56	3,931.06	3,813.33	117.74	33.388		
16,700.00	13,108.00	21,474.00	13,035.88	66.13	131.20	-87.431	-557.36	1,355.56	4,022.52	3,905.55	116.97	34.391		
16,800.00	13,108.00	21,474.00	13,035.88	67.45	131.20	-87.431	-557.36	1,355.56	4,114.37	3,998.14	116.23	35.398		
16,900.00	13,108.00	21,474.00	13,035.88	68.77	131.20	-87.431	-557.36	1,355.56	4,206.59	4,091.05	115.53	36.410		
17,000.00	13,108.00	21,474.00	13,035.88	70.10	131.20	-87.431	-557.36	1,355.56	4,299.16	4,184.29	114.87	37.426		
17,100.00	13,108.00	21,474.00	13,035.88	71.43	131.20	-87.431	-557.36	1,355.56	4,392.05	4,277.81	114.24	38.445		
17,200.00	13,108.00	21,474.00	13,035.88	72.77	131.20	-87.431	-557.36	1,355.56	4,485.25	4,371.61	113.64	39.468		
17,300.00	13,108.00	21,474.00	13,035.88	74.11	131.20	-87.431	-557.36	1,355.56	4,578.74	4,465.66	113.08	40.493		
17,400.00	13,108.00	21,474.00	13,035.88	75.46	131.20	-87.431	-557.36	1,355.56	4,672.50	4,559.96	112.54	41.520		
17,500.00	13,108.00	21,474.00	13,035.88	76.81	131.20	-87.431	-557.36	1,355.56	4,766.51	4,654.48	112.02	42.549		
17,600.00	13,108.00	21,474.00	13,035.88	78.17	131.20	-87.431	-557.36	1,355.56	4,860.76	4,749.22	111.54	43.580		
17,700.00	13,108.00	21,474.00	13,035.88	79.53	131.20	-87.431	-557.36	1,355.56	4,955.23	4,844.16	111.07	44.612		
17,800.00	13,108.00	21,474.00	13,035.88	80.89	131.20	-87.431	-557.36	1,355.56	5,049.92	4,939.29	110.63	45.645		
17,900.00	13,108.00	21,474.00	13,035.88	82.26	131.20	-87.431	-557.36	1,355.56	5,144.81	5,034.59	110.22	46.679		
18,000.00	13,108.00	21,474.00	13,035.88	83.63	131.20	-87.431	-557.36	1,355.56	5,239.89	5,130.07	109.82	47.714		
18,100.00	13,108.00	21,474.00	13,035.88	85.00	131.20	-87.431	-557.36	1,355.56	5,335.15	5,225.71	109.44	48.749		
18,200.00	13,108.00	21,474.00	13,035.88	86.38	131.20	-87.431	-557.36	1,355.56	5,430.58	5,321.49	109.08	49.784		
18,300.00	13,108.00	21,474.00	13,035.88	87.76	131.20	-87.431	-557.36	1,355.56	5,526.17	5,417.43	108.74	50.818		
18,400.00	13,108.00	21,474.00	13,035.88	89.14	131.20	-87.431	-557.36	1,355.56	5,621.91	5,513.49	108.42	51.853		
18,500.00	13,108.00	21,474.00	13,035.88	90.52	131.20	-87.431	-557.36	1,355.56	5,717.80	5,609.69	108.11	52.887		
18,600.00	13,108.00	21,474.00	13,035.88	91.90	131.20	-87.431	-557.36	1,355.56	5,813.83	5,706.01	107.82	53.921		
18,700.00	13,108.00	21,474.00	13,035.88	93.29	131.20	-87.431	-557.36	1,355.56	5,909.99	5,802.45	107.55	54.953		
18,800.00	13,108.00	21,474.00	13,035.88	94.68	131.20	-87.431	-557.36	1,355.56	6,006.28	5,899.00	107.28	55.985		
18,900.00	13,108.00	21,474.00	13,035.88	96.06	131.20	-87.431	-557.36	1,355.56	6,102.68	5,995.65	107.03	57.016		
19,000.00	13,108.00	21,474.00	13,035.88	97.46	131.20	-87.431	-557.36	1,355.56	6,199.20	6,092.40	106.80	58.045		
19,100.00	13,108.00	21,474.00	13,035.88	98.85	131.20	-87.431	-557.36	1,355.56	6,295.83	6,189.26	106.58	59.074		

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - 513H - OH / 68705 - Surveys (H&P 656)													Offset Site Error:	0.00 usft
Survey Program:		188-MWD+HDGM					Rule Assigned:				Offset Well Error:	1.00 usft		
Reference	Offset	Semi Major Axis		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		
19,200.00	13,108.00	21,474.00	13,035.88	100.24	131.20	-87.431	-557.36	1,355.56	6,392.56	6,286.20	106.36	60.101		
19,300.00	13,108.00	21,474.00	13,035.88	101.64	131.20	-87.431	-557.36	1,355.56	6,489.39	6,383.23	106.16	61.126		
19,400.00	13,108.00	21,474.00	13,035.88	103.03	131.20	-87.431	-557.36	1,355.56	6,586.32	6,480.34	105.97	62.150		
19,500.00	13,108.00	21,474.00	13,035.88	104.43	131.20	-87.431	-557.36	1,355.56	6,683.34	6,577.54	105.80	63.172		
19,600.00	13,108.00	21,474.00	13,035.88	105.83	131.20	-87.431	-557.36	1,355.56	6,780.44	6,674.81	105.63	64.192		
19,700.00	13,108.00	21,474.00	13,035.88	107.23	131.20	-87.431	-557.36	1,355.56	6,877.62	6,772.16	105.47	65.211		
19,800.00	13,108.00	21,474.00	13,035.88	108.63	131.20	-87.431	-557.36	1,355.56	6,974.89	6,869.57	105.32	66.227		
19,900.00	13,108.00	21,474.00	13,035.88	110.03	131.20	-87.431	-557.36	1,355.56	7,072.23	6,967.05	105.18	67.242		
20,000.00	13,108.00	21,474.00	13,035.88	111.43	131.20	-87.431	-557.36	1,355.56	7,169.65	7,064.60	105.04	68.254		
20,100.00	13,108.00	21,474.00	13,035.88	112.84	131.20	-87.431	-557.36	1,355.56	7,267.13	7,162.21	104.92	69.265		
20,200.00	13,108.00	21,474.00	13,035.88	114.24	131.20	-87.431	-557.36	1,355.56	7,364.68	7,259.88	104.80	70.273		
20,300.00	13,108.00	21,474.00	13,035.88	115.65	131.20	-87.431	-557.36	1,355.56	7,462.30	7,357.61	104.69	71.279		
20,400.00	13,108.00	21,474.00	13,035.88	117.05	131.20	-87.431	-557.36	1,355.56	7,559.98	7,455.39	104.59	72.282		
20,500.00	13,108.00	21,474.00	13,035.88	118.46	131.20	-87.431	-557.36	1,355.56	7,657.72	7,553.22	104.49	73.284		
20,600.00	13,108.00	21,474.00	13,035.88	119.87	131.20	-87.431	-557.36	1,355.56	7,755.52	7,651.11	104.41	74.282		
20,700.00	13,108.00	21,474.00	13,035.88	121.28	131.20	-87.431	-557.36	1,355.56	7,853.37	7,749.04	104.32	75.279		
20,800.00	13,108.00	21,474.00	13,035.88	122.68	131.20	-87.431	-557.36	1,355.56	7,951.27	7,847.03	104.25	76.273		
20,900.00	13,108.00	21,474.00	13,035.88	124.09	131.20	-87.431	-557.36	1,355.56	8,049.23	7,945.05	104.18	77.264		
21,000.00	13,108.00	21,474.00	13,035.88	125.51	131.20	-87.431	-557.36	1,355.56	8,147.24	8,043.12	104.11	78.253		
21,100.00	13,108.00	21,474.00	13,035.88	126.92	131.20	-87.431	-557.36	1,355.56	8,245.29	8,141.24	104.06	79.239		
21,200.00	13,108.00	21,474.00	13,035.88	128.33	131.20	-87.431	-557.36	1,355.56	8,343.40	8,239.39	104.00	80.222		
21,300.00	13,108.00	21,474.00	13,035.88	129.74	131.20	-87.431	-557.36	1,355.56	8,441.54	8,337.58	103.96	81.203		
21,400.00	13,108.00	21,474.00	13,035.88	131.15	131.20	-87.431	-557.36	1,355.56	8,539.73	8,435.82	103.91	82.181		
21,500.00	13,108.00	21,474.00	13,035.88	132.57	131.20	-87.431	-557.36	1,355.56	8,637.96	8,534.08	103.88	83.156		
21,600.00	13,108.00	21,474.00	13,035.88	133.98	131.20	-87.431	-557.36	1,355.56	8,736.23	8,632.39	103.84	84.129		
21,700.00	13,108.00	21,474.00	13,035.88	135.39	131.20	-87.431	-557.36	1,355.56	8,834.54	8,730.72	103.82	85.099		
21,800.00	13,108.00	21,474.00	13,035.88	136.81	131.20	-87.431	-557.36	1,355.56	8,932.89	8,829.09	103.79	86.065		
21,900.00	13,108.00	21,474.00	13,035.88	138.22	131.20	-87.431	-557.36	1,355.56	9,031.27	8,927.50	103.77	87.030		
22,000.00	13,108.00	21,474.00	13,035.88	139.64	131.20	-87.431	-557.36	1,355.56	9,129.69	9,025.93	103.76	87.991		
22,100.00	13,108.00	21,474.00	13,035.88	141.06	131.20	-87.431	-557.36	1,355.56	9,228.14	9,124.39	103.75	88.949		
22,200.00	13,108.00	21,474.00	13,035.88	142.47	131.20	-87.431	-557.36	1,355.56	9,326.62	9,222.89	103.74	89.904		
22,300.00	13,108.00	21,474.00	13,035.88	143.89	131.20	-87.431	-557.36	1,355.56	9,425.14	9,321.41	103.74	90.857		
22,400.00	13,108.00	21,474.00	13,035.88	145.31	131.20	-87.431	-557.36	1,355.56	9,523.69	9,419.95	103.74	91.806		
22,500.00	13,108.00	21,474.00	13,035.88	146.72	131.20	-87.431	-557.36	1,355.56	9,622.27	9,518.53	103.74	92.753		
22,600.00	13,108.00	21,474.00	13,035.88	148.14	131.20	-87.431	-557.36	1,355.56	9,720.87	9,617.13	103.75	93.696		
22,700.00	13,108.00	21,474.00	13,035.88	149.56	131.20	-87.431	-557.36	1,355.56	9,819.51	9,715.75	103.76	94.637		
22,800.00	13,108.00	21,474.00	13,035.88	150.98	131.20	-87.431	-557.36	1,355.56	9,918.17	9,814.40	103.77	95.574		
22,900.00	13,108.00	21,474.00	13,035.88	152.40	131.20	-87.431	-557.36	1,355.56	10,016.86	9,913.07	103.79	96.509		
23,000.00	13,108.00	21,474.00	13,035.88	153.82	131.20	-87.431	-557.36	1,355.56	10,115.58	10,011.76	103.81	97.440		
23,100.00	13,108.00	21,474.00	13,035.88	155.24	131.20	-87.431	-557.36	1,355.56	10,214.32	10,110.48	103.84	98.369		
23,200.00	13,108.00	21,474.00	13,035.88	156.66	131.20	-87.431	-557.36	1,355.56	10,313.08	10,209.22	103.86	99.294		
23,247.14	13,108.00	21,474.00	13,035.88	157.33	131.20	-87.431	-557.36	1,355.56	10,359.64	10,255.76	103.88	99.729		

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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		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	-43.00	1.00	1.00	15.289	8,053.28	2,201.48	8,348.87				
100.00	100.00	74.82	31.81	1.08	1.10	15.293	8,053.44	2,202.06	8,349.35	8,347.17	2.18	3,836.398	
200.00	200.00	127.12	84.10	1.60	1.26	15.299	8,053.74	2,203.14	8,350.45	8,347.60	2.85	2,933.976	
300.00	300.00	407.05	363.98	2.01	2.78	15.312	8,054.00	2,205.10	8,350.66	8,345.88	4.78	1,747.379	
400.00	400.00	496.02	452.94	2.35	3.06	15.306	8,053.61	2,204.11	8,349.94	8,344.55	5.39	1,548.063	
500.00	500.00	572.02	528.94	2.65	3.22	15.303	8,053.33	2,203.67	8,349.44	8,343.58	5.86	1,424.644	
600.00	600.00	654.00	610.92	2.93	3.40	15.301	8,053.24	2,203.34	8,349.22	8,342.92	6.30	1,325.137	
700.00	700.00	760.10	717.02	3.18	3.62	15.299	8,053.21	2,202.98	8,349.10	8,342.35	6.76	1,235.646	
800.00	800.00	846.08	803.00	3.41	3.75	15.298	8,053.10	2,202.83	8,348.94	8,341.82	7.12	1,172.296	
813.24	813.24	856.32	813.24	3.44	3.77	15.298	8,053.10	2,202.83	8,348.94	8,341.78	7.17	1,165.222	
900.00	900.00	946.19	903.11	3.64	3.88	15.299	8,053.10	2,202.87	8,348.96	8,341.47	7.48	1,116.055	
1,000.00	1,000.00	1,043.58	1,000.50	3.85	4.02	15.299	8,053.06	2,202.88	8,348.92	8,341.09	7.83	1,066.868	
1,100.00	1,100.00	1,161.90	1,118.82	4.05	4.24	15.297	8,053.00	2,202.65	8,348.82	8,340.59	8.23	1,014.048	
1,163.75	1,163.75	1,206.85	1,163.77	4.17	4.28	15.297	8,052.98	2,202.56	8,348.76	8,340.36	8.40	994.078	
1,200.00	1,200.00	1,235.00	1,191.92	4.24	4.31	15.297	8,053.00	2,202.57	8,348.78	8,340.28	8.50	982.323	
1,300.00	1,300.00	1,337.64	1,294.56	4.43	4.42	15.299	8,052.97	2,202.93	8,348.85	8,340.04	8.81	947.193	
1,400.00	1,400.00	1,420.40	1,377.32	4.61	4.52	15.303	8,052.97	2,203.48	8,349.03	8,339.92	9.11	916.956	
1,500.00	1,500.00	1,510.00	1,466.92	4.78	4.63	15.307	8,052.94	2,204.03	8,349.17	8,339.77	9.40	888.060	
1,600.00	1,599.98	1,564.66	1,521.56	4.99	4.86	165.113	8,052.91	2,205.08	8,351.41	8,341.70	9.70	860.588	
1,638.42	1,638.36	1,603.00	1,559.87	5.04	5.03	165.117	8,052.96	2,206.75	8,353.44	8,343.61	9.84	849.287	
1,700.00	1,699.87	1,603.00	1,559.87	5.10	5.03	165.117	8,052.96	2,206.75	8,357.12	8,347.23	9.90	844.532	
1,800.00	1,799.76	1,644.24	1,601.02	5.26	5.44	165.138	8,053.08	2,209.41	8,363.80	8,353.64	10.16	823.513	
1,900.00	1,899.64	1,696.00	1,652.57	5.44	5.95	165.172	8,053.34	2,214.00	8,371.23	8,360.75	10.48	798.973	
2,000.00	1,999.52	1,804.44	1,760.47	5.64	6.36	165.252	8,053.80	2,224.88	8,379.00	8,368.16	10.84	772.910	
2,100.00	2,099.41	1,856.62	1,812.40	5.84	6.40	165.290	8,054.14	2,230.00	8,386.87	8,375.76	11.11	755.075	
2,200.00	2,199.29	1,932.53	1,887.93	6.07	6.53	165.344	8,054.90	2,237.42	8,395.13	8,383.70	11.43	734.698	
2,300.00	2,299.17	2,026.18	1,981.10	6.30	6.70	165.412	8,055.93	2,246.84	8,403.57	8,391.79	11.79	712.973	
2,400.00	2,399.06	2,122.29	2,076.73	6.54	6.90	165.481	8,057.00	2,256.46	8,412.03	8,399.87	12.16	691.606	
2,500.00	2,498.94	2,228.46	2,182.33	6.79	7.13	165.559	8,058.15	2,267.31	8,420.54	8,407.97	12.57	670.070	
2,600.00	2,598.82	2,335.09	2,288.37	7.04	7.39	165.639	8,059.06	2,278.50	8,428.91	8,415.93	12.98	649.182	
2,700.00	2,698.71	2,452.62	2,405.21	7.31	7.69	165.731	8,059.79	2,291.25	8,437.18	8,423.75	13.43	628.197	
2,800.00	2,798.59	2,685.05	2,636.19	7.58	8.33	165.920	8,058.70	2,316.99	8,444.39	8,430.32	14.07	599.971	
2,900.00	2,898.47	2,796.24	2,746.71	7.85	8.70	166.010	8,057.40	2,329.04	8,450.99	8,436.46	14.53	581.710	
3,000.00	2,998.36	2,883.09	2,833.20	8.13	9.01	166.070	8,056.63	2,336.96	8,457.39	8,442.46	14.93	566.283	
3,100.00	3,098.24	2,941.95	2,891.88	8.41	9.21	166.104	8,056.66	2,341.53	8,464.30	8,448.99	15.30	553.108	
3,200.00	3,198.12	3,015.00	2,964.70	8.70	9.42	166.147	8,056.93	2,347.37	8,471.59	8,455.89	15.70	539.609	
3,300.00	3,298.01	3,109.00	3,058.38	8.99	9.70	166.204	8,057.40	2,355.11	8,479.10	8,462.96	16.14	525.466	
3,400.00	3,397.89	3,186.93	3,136.04	9.28	9.94	166.251	8,057.92	2,361.52	8,486.75	8,470.20	16.55	512.699	
3,500.00	3,497.77	3,257.50	3,206.37	9.58	10.16	166.293	8,058.56	2,367.38	8,494.68	8,477.72	16.96	500.789	
3,600.00	3,597.66	3,329.79	3,278.38	9.88	10.38	166.337	8,059.45	2,373.54	8,502.98	8,485.60	17.38	489.278	
3,700.00	3,697.54	3,408.19	3,356.48	10.18	10.63	166.385	8,060.59	2,380.31	8,511.54	8,493.73	17.81	477.876	
3,800.00	3,797.42	3,489.00	3,436.93	10.49	10.89	166.437	8,061.86	2,387.83	8,520.39	8,502.14	18.26	466.719	
3,900.00	3,897.31	3,704.18	3,651.33	10.79	11.59	166.566	8,064.02	2,405.95	8,528.30	8,509.35	18.95	450.129	
4,000.00	3,997.19	4,068.32	4,014.10	11.10	12.81	166.799	8,060.18	2,436.73	8,534.74	8,514.84	19.90	428.894	
4,100.00	4,097.07	4,134.66	4,080.17	11.41	13.03	166.844	8,058.45	2,442.48	8,539.47	8,519.18	20.29	420.873	
4,200.00	4,196.96	4,239.01	4,184.13	11.72	13.37	166.912	8,056.05	2,451.07	8,544.40	8,523.65	20.74	411.892	
4,300.00	4,296.84	4,321.38	4,266.21	12.03	13.65	166.964	8,054.20	2,457.72	8,549.35	8,528.18	21.17	403.909	
4,400.00	4,396.72	4,412.35	4,356.88	12.35	13.96	167.021	8,052.37	2,464.97	8,554.48	8,532.87	21.60	395.980	
4,500.00	4,496.61	20,641.43	12,509.00	12.66	123.37	-125.137	-188.74	2,816.47	8,517.12	8,434.86	82.26	103.539	
4,600.00	4,596.49	20,641.93	12,508.99	12.98	123.38	-125.128	-189.23	2,816.48	8,424.03	8,341.49	82.54	102.058	
4,700.00	4,696.37	20,642.44	12,508.98	13.29	123.38	-125.118	-189.74	2,816.49	8,331.09	8,248.26	82.83	100.581	
4,800.00	4,796.26	20,642.96	12,508.98	13.61	123.39	-125.109	-190.26	2,816.50	8,238.32	8,155.20	83.13	99.107	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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		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		
4,900.00	4,896.14	20,643.49	12,508.97	13.93	123.40	-125.099	-190.80	2,816.51	8,145.72	8,062.29	83.43	97.636			
5,000.00	4,996.02	20,644.04	12,508.96	14.25	123.41	-125.089	-191.35	2,816.53	8,053.30	7,969.56	83.74	96.168			
5,100.00	5,095.91	20,644.60	12,508.95	14.57	123.41	-125.078	-191.91	2,816.54	7,961.06	7,877.00	84.06	94.704			
5,200.00	5,195.79	20,645.18	12,508.94	14.89	123.42	-125.068	-192.48	2,816.55	7,869.01	7,784.62	84.39	93.244			
5,300.00	5,295.67	20,645.77	12,508.94	15.21	123.43	-125.057	-193.07	2,816.56	7,777.16	7,692.43	84.73	91.788			
5,400.00	5,395.56	20,646.38	12,508.93	15.54	123.44	-125.046	-193.68	2,816.57	7,685.51	7,600.43	85.08	90.336			
5,500.00	5,495.44	20,647.00	12,508.92	15.86	123.45	-125.034	-194.30	2,816.59	7,594.07	7,508.64	85.43	88.889			
5,600.00	5,595.32	20,647.64	12,508.91	16.19	123.46	-125.022	-194.94	2,816.60	7,502.85	7,417.05	85.80	87.446			
5,700.00	5,695.21	20,648.29	12,508.90	16.51	123.46	-125.010	-195.60	2,816.61	7,411.85	7,325.67	86.18	86.007			
5,800.00	5,795.09	20,648.97	12,508.90	16.83	123.47	-124.998	-196.27	2,816.62	7,321.09	7,234.53	86.56	84.574			
5,900.00	5,894.97	20,686.00	12,508.89	17.16	123.99	-124.313	-233.30	2,817.19	7,230.97	7,143.70	87.26	82.864			
6,000.00	5,994.86	20,686.00	12,508.89	17.49	123.99	-124.313	-233.30	2,817.19	7,140.69	7,053.02	87.67	81.453			
6,100.00	6,094.74	20,686.00	12,508.89	17.81	123.99	-124.313	-233.30	2,817.19	7,050.67	6,962.59	88.08	80.047			
6,200.00	6,194.62	20,686.00	12,508.89	18.14	123.99	-124.313	-233.30	2,817.19	6,960.92	6,872.41	88.51	78.647			
6,300.00	6,294.51	20,686.00	12,508.89	18.47	123.99	-124.313	-233.30	2,817.19	6,871.46	6,782.51	88.95	77.253			
6,400.00	6,394.39	20,686.00	12,508.89	18.79	123.99	-124.313	-233.30	2,817.19	6,782.29	6,692.89	89.40	75.865			
6,500.00	6,494.27	20,686.00	12,508.89	19.12	123.99	-124.313	-233.30	2,817.19	6,693.43	6,603.56	89.86	74.483			
6,600.00	6,594.16	20,686.00	12,508.89	19.45	123.99	-124.313	-233.30	2,817.19	6,604.88	6,514.54	90.34	73.109			
6,700.00	6,694.04	20,686.00	12,508.89	19.78	123.99	-124.313	-233.30	2,817.19	6,516.67	6,425.84	90.84	71.741			
6,800.00	6,793.92	20,686.00	12,508.89	20.11	123.99	-124.313	-233.30	2,817.19	6,428.81	6,337.46	91.34	70.380			
6,900.00	6,893.81	20,686.00	12,508.89	20.44	123.99	-124.313	-233.30	2,817.19	6,341.30	6,249.43	91.87	69.027			
7,000.00	6,993.69	20,686.00	12,508.89	20.77	123.99	-124.313	-233.30	2,817.19	6,254.16	6,161.76	92.41	67.682			
7,100.00	7,093.57	20,686.00	12,508.89	21.10	123.99	-124.313	-233.30	2,817.19	6,167.42	6,074.46	92.96	66.344			
7,200.00	7,193.46	20,686.00	12,508.89	21.43	123.99	-124.313	-233.30	2,817.19	6,081.09	5,987.55	93.53	65.015			
7,300.00	7,293.34	20,686.00	12,508.89	21.76	123.99	-124.313	-233.30	2,817.19	5,995.18	5,901.05	94.12	63.695			
7,400.00	7,393.22	20,686.00	12,508.89	22.09	123.99	-124.313	-233.30	2,817.19	5,909.71	5,814.98	94.73	62.384			
7,500.00	7,493.11	20,686.00	12,508.89	22.42	123.99	-124.313	-233.30	2,817.19	5,824.70	5,729.35	95.36	61.083			
7,600.00	7,592.99	20,686.00	12,508.89	22.75	123.99	-124.313	-233.30	2,817.19	5,740.18	5,644.18	96.00	59.791			
7,700.00	7,692.87	20,686.00	12,508.89	23.08	123.99	-124.313	-233.30	2,817.19	5,656.17	5,559.49	96.67	58.510			
7,800.00	7,792.76	20,686.00	12,508.89	23.41	123.99	-124.313	-233.30	2,817.19	5,572.68	5,475.32	97.36	57.239			
7,900.00	7,892.64	20,686.00	12,508.89	23.74	123.99	-124.313	-233.30	2,817.19	5,489.74	5,391.67	98.07	55.979			
8,000.00	7,992.52	20,686.00	12,508.89	24.07	123.99	-124.313	-233.30	2,817.19	5,407.38	5,308.58	98.80	54.731			
8,100.00	8,092.41	20,686.00	12,508.89	24.40	123.99	-124.313	-233.30	2,817.19	5,325.62	5,226.07	99.56	53.494			
8,200.00	8,192.29	20,686.00	12,508.89	24.74	123.99	-124.313	-233.30	2,817.19	5,244.50	5,144.17	100.33	52.270			
8,300.00	8,292.17	20,686.00	12,508.89	25.07	123.99	-124.313	-233.30	2,817.19	5,164.04	5,062.90	101.14	51.059			
8,400.00	8,392.06	20,686.00	12,508.89	25.40	123.99	-124.313	-233.30	2,817.19	5,084.27	4,982.31	101.97	49.862			
8,500.00	8,491.94	20,686.00	12,508.89	25.73	123.99	-124.313	-233.30	2,817.19	5,005.23	4,902.41	102.82	48.678			
8,600.00	8,591.82	20,686.00	12,508.89	26.07	123.99	-124.313	-233.30	2,817.19	4,926.95	4,823.25	103.71	47.509			
8,700.00	8,691.71	20,686.00	12,508.89	26.40	123.99	-124.313	-233.30	2,817.19	4,849.47	4,744.86	104.61	46.355			
8,800.00	8,791.59	20,686.00	12,508.89	26.73	123.99	-124.313	-233.30	2,817.19	4,772.83	4,667.28	105.55	45.217			
8,900.00	8,891.47	20,686.00	12,508.89	27.06	123.99	-124.313	-233.30	2,817.19	4,697.07	4,590.55	106.52	44.096			
9,000.00	8,991.36	20,686.00	12,508.89	27.40	123.99	-124.313	-233.30	2,817.19	4,622.22	4,514.71	107.52	42.991			
9,100.00	9,091.24	20,686.00	12,508.89	27.73	123.99	-124.313	-233.30	2,817.19	4,548.35	4,439.80	108.54	41.904			
9,200.00	9,191.12	20,686.00	12,508.89	28.06	123.99	-124.313	-233.30	2,817.19	4,475.49	4,365.89	109.60	40.835			
9,300.00	9,291.01	20,702.19	12,509.11	28.40	124.21	-124.014	-249.48	2,817.33	4,403.65	4,292.84	110.81	39.739			
9,400.00	9,390.89	20,706.81	12,509.19	28.73	124.27	-123.929	-254.11	2,817.36	4,332.95	4,220.98	111.97	38.698			
9,500.00	9,490.77	20,711.71	12,509.29	29.06	124.34	-123.838	-259.01	2,817.38	4,263.42	4,150.26	113.15	37.678			
9,600.00	9,590.66	20,716.93	12,509.40	29.40	124.41	-123.742	-264.22	2,817.39	4,195.11	4,080.73	114.37	36.679			
9,700.00	9,690.54	20,722.49	12,509.53	29.73	124.49	-123.639	-269.78	2,817.40	4,128.08	4,012.46	115.62	35.703			
9,800.00	9,790.42	20,728.42	12,509.68	30.06	124.57	-123.529	-275.71	2,817.40	4,062.40	3,945.49	116.91	34.749			
9,900.00	9,890.31	20,734.76	12,509.85	30.40	124.66	-123.412	-282.05	2,817.38	3,998.13	3,879.91	118.22	33.820			
10,000.00	9,990.19	20,741.57	12,510.06	30.73	124.76	-123.286	-288.85	2,817.35	3,935.34	3,815.78	119.56	32.914			

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 404H - OH / 67732 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 174-MWD+HRGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Offset												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,100.00	10,090.07	20,748.88	12,510.30	31.07	124.86	-123.151	-296.16	2,817.31	3,874.10	3,753.17	120.94	32.034	
10,200.00	10,189.96	20,756.77	12,510.58	31.40	124.97	-123.005	-304.04	2,817.24	3,814.49	3,692.16	122.34	31.181	
10,300.00	10,289.84	20,765.29	12,510.90	31.74	125.08	-122.848	-312.56	2,817.15	3,756.58	3,632.81	123.76	30.353	
10,400.00	10,389.72	20,774.54	12,511.29	32.07	125.21	-122.677	-321.80	2,817.02	3,700.44	3,575.23	125.21	29.554	
10,500.00	10,489.60	20,784.60	12,511.75	32.40	125.35	-122.491	-331.85	2,816.85	3,646.16	3,519.48	126.68	28.782	
10,600.00	10,589.49	20,792.85	12,512.12	32.74	125.47	-122.339	-340.09	2,816.72	3,593.82	3,465.66	128.15	28.044	
10,700.00	10,689.37	20,801.65	12,512.53	33.07	125.59	-122.176	-348.87	2,816.57	3,543.50	3,413.87	129.63	27.335	
10,800.00	10,789.25	20,810.44	12,512.93	33.41	125.71	-122.014	-357.66	2,816.42	3,495.30	3,364.18	131.12	26.657	
10,900.00	10,889.14	20,819.23	12,513.33	33.74	125.83	-121.851	-366.44	2,816.27	3,449.31	3,316.70	132.61	26.011	
11,000.00	10,989.02	20,828.03	12,513.74	34.08	125.95	-121.688	-375.22	2,816.12	3,405.61	3,271.51	134.10	25.397	
11,100.00	11,088.90	20,836.82	12,514.14	34.41	126.08	-121.526	-384.01	2,815.97	3,364.29	3,228.72	135.57	24.816	
11,200.00	11,188.79	20,845.62	12,514.55	34.75	126.20	-121.363	-392.79	2,815.82	3,325.45	3,188.42	137.03	24.268	
11,300.00	11,288.67	20,854.41	12,514.95	35.08	126.32	-121.200	-401.57	2,815.68	3,289.16	3,150.69	138.47	23.754	
11,400.00	11,388.55	20,863.20	12,515.35	35.42	126.44	-121.037	-410.36	2,815.53	3,255.52	3,115.64	139.88	23.274	
11,500.00	11,488.44	20,872.00	12,515.76	35.75	126.57	-120.874	-419.14	2,815.38	3,224.60	3,083.35	141.25	22.828	
11,600.00	11,588.32	20,880.79	12,516.16	36.09	126.69	-120.712	-427.93	2,815.23	3,196.49	3,053.90	142.59	22.417	
11,700.00	11,688.20	20,889.59	12,516.56	36.42	126.81	-120.549	-436.71	2,815.08	3,171.26	3,027.38	143.88	22.041	
11,800.00	11,788.09	20,898.38	12,516.97	36.76	126.93	-120.386	-445.49	2,814.93	3,148.98	3,003.86	145.12	21.699	
11,900.00	11,887.97	20,907.17	12,517.37	37.09	127.05	-120.223	-454.28	2,814.78	3,129.72	2,983.41	146.31	21.392	
11,908.72	11,896.68	20,907.94	12,517.40	37.12	127.06	-120.209	-455.04	2,814.77	3,128.18	2,981.78	146.41	21.366	
12,000.00	11,987.91	20,914.70	12,517.72	37.41	127.16	-119.813	-461.80	2,814.66	3,112.81	2,965.41	147.39	21.119	
12,047.14	12,035.04	20,917.20	12,517.83	37.47	127.19	90.556	-464.29	2,814.61	3,105.32	2,957.50	147.82	21.008	
12,100.00	12,087.91	20,919.63	12,517.94	37.47	127.23	90.601	-466.72	2,814.57	3,097.54	2,949.31	148.23	20.897	
12,200.00	12,187.91	20,924.22	12,518.15	37.48	127.29	90.687	-471.30	2,814.49	3,085.24	2,936.28	148.96	20.711	
12,300.00	12,287.91	20,928.81	12,518.36	37.48	127.35	90.773	-475.88	2,814.42	3,076.14	2,926.51	149.63	20.558	
12,400.00	12,387.91	20,933.40	12,518.57	37.49	127.42	90.858	-480.47	2,814.34	3,070.27	2,920.05	150.22	20.439	
12,500.00	12,487.91	20,937.98	12,518.78	37.50	127.48	90.944	-485.05	2,814.26	3,067.64	2,916.91	150.73	20.352	
12,530.94	12,518.85	20,939.40	12,518.85	37.49	127.50	90.970	-486.47	2,814.24	3,067.48	2,916.61	150.87	20.332 CC	
12,547.14	12,535.04	20,940.15	12,518.88	37.49	127.51	90.984	-487.21	2,814.23	3,067.52	2,916.59	150.94	20.323 ES	
12,550.00	12,537.91	20,940.29	12,518.89	37.50	127.51	-88.436	-487.35	2,814.22	3,067.54	2,916.59	150.95	20.322	
12,600.00	12,587.83	20,945.00	12,519.11	37.64	127.58	-88.284	-492.06	2,814.14	3,068.19	2,916.98	151.21	20.291	
12,650.00	12,637.36	20,954.04	12,519.52	37.90	127.70	-87.987	-501.08	2,813.99	3,069.50	2,917.98	151.52	20.258	
12,700.00	12,686.10	20,964.00	12,519.98	38.17	127.84	-87.614	-511.03	2,813.82	3,071.43	2,919.56	151.88	20.223	
12,750.00	12,733.70	20,964.00	12,519.98	38.46	127.84	-87.359	-511.03	2,813.82	3,073.98	2,921.76	152.22	20.195	
12,800.00	12,779.78	20,964.00	12,519.98	38.75	127.84	-87.043	-511.03	2,813.82	3,077.14	2,924.55	152.58	20.167	
12,850.00	12,824.00	20,964.00	12,519.98	39.03	127.84	-86.669	-511.03	2,813.82	3,080.88	2,927.90	152.98	20.139	
12,900.00	12,866.02	20,964.00	12,519.98	39.31	127.84	-86.238	-511.03	2,813.82	3,085.17	2,931.78	153.39	20.113	
12,950.00	12,905.52	20,964.00	12,519.98	39.57	127.84	-85.756	-511.03	2,813.82	3,089.98	2,936.16	153.83	20.087	
13,000.00	12,942.21	20,964.00	12,519.98	39.82	127.84	-85.226	-511.03	2,813.82	3,095.27	2,941.00	154.27	20.064	
13,050.00	12,975.79	20,964.00	12,519.98	40.06	127.84	-84.651	-511.03	2,813.82	3,101.00	2,946.27	154.73	20.042	
13,100.00	13,006.02	20,964.00	12,519.98	40.27	127.84	-84.038	-511.03	2,813.82	3,107.12	2,951.93	155.19	20.022	
13,150.00	13,032.66	20,964.00	12,519.98	40.46	127.84	-83.390	-511.03	2,813.82	3,113.58	2,957.94	155.64	20.004	
13,200.00	13,055.52	20,964.00	12,519.98	40.63	127.84	-82.714	-511.03	2,813.82	3,120.33	2,964.23	156.10	19.989	
13,250.00	13,074.42	20,964.00	12,519.98	40.77	127.84	-82.014	-511.03	2,813.82	3,127.32	2,970.78	156.54	19.977	
13,300.00	13,089.21	20,964.00	12,519.98	40.89	127.84	-81.297	-511.03	2,813.82	3,134.49	2,977.52	156.98	19.968	
13,350.00	13,099.79	20,964.00	12,519.98	40.99	127.84	-80.569	-511.03	2,813.82	3,141.79	2,984.40	157.39	19.962	
13,400.00	13,106.06	20,964.00	12,519.98	41.06	127.84	-79.834	-511.03	2,813.82	3,149.16	2,991.38	157.79	19.958	
13,447.14	13,108.00	20,964.00	12,519.98	41.11	127.84	-79.142	-511.03	2,813.82	3,156.13	2,997.99	158.14	19.958 SF	
13,500.00	13,108.00	20,964.00	12,519.98	41.15	127.84	-79.142	-511.03	2,813.82	3,164.36	3,005.86	158.50	19.965	
13,600.00	13,108.00	20,964.00	12,519.98	41.25	127.84	-79.142	-511.03	2,813.82	3,182.27	3,023.18	159.09	20.003	
13,700.00	13,108.00	20,964.00	12,519.98	41.37	127.84	-79.142	-511.03	2,813.82	3,203.21	3,043.65	159.57	20.074	
13,800.00	13,108.00	20,964.00	12,519.98	41.51	127.84	-79.142	-511.03	2,813.82	3,227.12	3,067.19	159.93	20.179	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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	
13,900.00	13,108.00	20,964.00	12,519.98	41.67	127.84	-79.142	-511.03	2,813.82	3,253.92	3,093.75	160.17	20.316		
14,000.00	13,108.00	20,964.00	12,519.98	41.87	127.84	-79.142	-511.03	2,813.82	3,283.55	3,123.25	160.30	20.484		
14,100.00	13,108.00	20,964.00	12,519.98	42.10	127.84	-79.142	-511.03	2,813.82	3,315.93	3,155.62	160.31	20.684		
14,200.00	13,108.00	20,964.00	12,519.98	42.37	127.84	-79.142	-511.03	2,813.82	3,350.98	3,190.76	160.23	20.914		
14,300.00	13,108.00	20,964.00	12,519.98	42.69	127.84	-79.142	-511.03	2,813.82	3,388.63	3,228.59	160.04	21.174		
14,400.00	13,108.00	20,964.00	12,519.98	43.06	127.84	-79.142	-511.03	2,813.82	3,428.78	3,269.01	159.76	21.462		
14,500.00	13,108.00	20,964.00	12,519.98	43.48	127.84	-79.142	-511.03	2,813.82	3,471.34	3,311.94	159.40	21.778		
14,600.00	13,108.00	20,964.00	12,519.98	43.97	127.84	-79.142	-511.03	2,813.82	3,516.23	3,357.28	158.95	22.122		
14,700.00	13,108.00	20,964.00	12,519.98	44.53	127.84	-79.142	-511.03	2,813.82	3,563.37	3,404.94	158.43	22.492		
14,800.00	13,108.00	20,964.00	12,519.98	45.16	127.84	-79.142	-511.03	2,813.82	3,612.66	3,454.81	157.85	22.887		
14,900.00	13,108.00	20,964.00	12,519.98	45.87	127.84	-79.142	-511.03	2,813.82	3,664.02	3,506.81	157.20	23.308		
15,000.00	13,108.00	20,964.00	12,519.98	46.64	127.84	-79.142	-511.03	2,813.82	3,717.35	3,560.85	156.51	23.752		
15,100.00	13,108.00	20,964.00	12,519.98	47.49	127.84	-79.142	-511.03	2,813.82	3,772.59	3,616.83	155.76	24.220		
15,200.00	13,108.00	20,964.00	12,519.98	48.39	127.84	-79.142	-511.03	2,813.82	3,829.64	3,674.66	154.98	24.711		
15,300.00	13,108.00	20,964.00	12,519.98	49.36	127.84	-79.142	-511.03	2,813.82	3,888.42	3,734.26	154.16	25.223		
15,400.00	13,108.00	20,964.00	12,519.98	50.38	127.84	-79.142	-511.03	2,813.82	3,948.87	3,795.55	153.31	25.757		
15,500.00	13,108.00	20,964.00	12,519.98	51.44	127.84	-79.142	-511.03	2,813.82	4,010.89	3,858.45	152.44	26.311		
15,600.00	13,108.00	20,964.00	12,519.98	52.54	127.84	-79.142	-511.03	2,813.82	4,074.43	3,922.88	151.55	26.886		
15,700.00	13,108.00	20,964.00	12,519.98	53.67	127.84	-79.142	-511.03	2,813.82	4,139.40	3,988.76	150.64	27.479		
15,800.00	13,108.00	20,964.00	12,519.98	54.84	127.84	-79.142	-511.03	2,813.82	4,205.75	4,056.04	149.72	28.092		
15,900.00	13,108.00	20,964.00	12,519.98	56.02	127.84	-79.142	-511.03	2,813.82	4,273.41	4,124.63	148.79	28.722		
16,000.00	13,108.00	20,964.00	12,519.98	57.24	127.84	-79.142	-511.03	2,813.82	4,342.32	4,194.47	147.85	29.370		
16,100.00	13,108.00	20,964.00	12,519.98	58.47	127.84	-79.142	-511.03	2,813.82	4,412.42	4,265.51	146.91	30.034		
16,200.00	13,108.00	20,964.00	12,519.98	59.71	127.84	-79.142	-511.03	2,813.82	4,483.66	4,337.68	145.98	30.715		
16,300.00	13,108.00	20,964.00	12,519.98	60.97	127.84	-79.142	-511.03	2,813.82	4,555.97	4,410.93	145.04	31.412		
16,400.00	13,108.00	20,964.00	12,519.98	62.25	127.84	-79.142	-511.03	2,813.82	4,629.32	4,485.21	144.11	32.124		
16,500.00	13,108.00	20,964.00	12,519.98	63.53	127.84	-79.142	-511.03	2,813.82	4,703.65	4,560.46	143.18	32.850		
16,600.00	13,108.00	20,964.00	12,519.98	64.83	127.84	-79.142	-511.03	2,813.82	4,778.91	4,636.64	142.27	33.591		
16,700.00	13,108.00	20,964.00	12,519.98	66.13	127.84	-79.142	-511.03	2,813.82	4,855.07	4,713.71	141.36	34.346		
16,800.00	13,108.00	20,964.00	12,519.98	67.45	127.84	-79.142	-511.03	2,813.82	4,932.08	4,791.62	140.46	35.113		
16,900.00	13,108.00	20,964.00	12,519.98	68.77	127.84	-79.142	-511.03	2,813.82	5,009.90	4,870.32	139.58	35.894		
17,000.00	13,108.00	20,964.00	12,519.98	70.10	127.84	-79.142	-511.03	2,813.82	5,088.50	4,949.80	138.70	36.687		
17,100.00	13,108.00	20,964.00	12,519.98	71.43	127.84	-79.142	-511.03	2,813.82	5,167.83	5,029.99	137.84	37.492		
17,200.00	13,108.00	20,964.00	12,519.98	72.77	127.84	-79.142	-511.03	2,813.82	5,247.88	5,110.88	136.99	38.308		
17,300.00	13,108.00	20,964.00	12,519.98	74.11	127.84	-79.142	-511.03	2,813.82	5,328.59	5,192.44	136.16	39.135		
17,400.00	13,108.00	20,964.00	12,519.98	75.46	127.84	-79.142	-511.03	2,813.82	5,409.96	5,274.62	135.34	39.973		
17,500.00	13,108.00	20,964.00	12,519.98	76.81	127.84	-79.142	-511.03	2,813.82	5,491.93	5,357.40	134.54	40.821		
17,600.00	13,108.00	20,964.00	12,519.98	78.17	127.84	-79.142	-511.03	2,813.82	5,574.50	5,440.75	133.75	41.680		
17,700.00	13,108.00	20,964.00	12,519.98	79.53	127.84	-79.142	-511.03	2,813.82	5,657.63	5,524.65	132.97	42.547		
17,800.00	13,108.00	20,964.00	12,519.98	80.89	127.84	-79.142	-511.03	2,813.82	5,741.29	5,609.08	132.21	43.424		
17,900.00	13,108.00	20,964.00	12,519.98	82.26	127.84	-79.142	-511.03	2,813.82	5,825.47	5,694.00	131.47	44.310		
18,000.00	13,108.00	20,964.00	12,519.98	83.63	127.84	-79.142	-511.03	2,813.82	5,910.15	5,779.40	130.74	45.204		
18,100.00	13,108.00	20,964.00	12,519.98	85.00	127.84	-79.142	-511.03	2,813.82	5,995.29	5,865.26	130.03	46.106		
18,200.00	13,108.00	20,964.00	12,519.98	86.38	127.84	-79.142	-511.03	2,813.82	6,080.89	5,951.56	129.34	47.017		
18,300.00	13,108.00	20,964.00	12,519.98	87.76	127.84	-79.142	-511.03	2,813.82	6,166.92	6,038.27	128.65	47.934		
18,400.00	13,108.00	20,964.00	12,519.98	89.14	127.84	-79.142	-511.03	2,813.82	6,253.37	6,125.38	127.99	48.859		
18,500.00	13,108.00	20,964.00	12,519.98	90.52	127.84	-79.142	-511.03	2,813.82	6,340.22	6,212.88	127.34	49.791		
18,600.00	13,108.00	20,964.00	12,519.98	91.90	127.84	-79.142	-511.03	2,813.82	6,427.45	6,300.75	126.70	50.729		
18,700.00	13,108.00	20,964.00	12,519.98	93.29	127.84	-79.142	-511.03	2,813.82	6,515.04	6,388.96	126.08	51.674		
18,800.00	13,108.00	20,964.00	12,519.98	94.68	127.84	-79.142	-511.03	2,813.82	6,602.99	6,477.52	125.47	52.625		
18,900.00	13,108.00	20,964.00	12,519.98	96.06	127.84	-79.142	-511.03	2,813.82	6,691.28	6,566.40	124.88	53.582		
19,000.00	13,108.00	20,964.00	12,519.98	97.46	127.84	-79.142	-511.03	2,813.82	6,779.89	6,655.59	124.30	54.544		

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 404H - OH / 67732 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program:		174-MWD+HRGM				Rule Assigned:				Offset Well Error:	1.00 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,100.00	13,108.00	20,964.00	12,519.98	98.85	127.84	-79.142	-511.03	2,813.82	6,868.81	6,745.08	123.74	55.512	
19,200.00	13,108.00	20,964.00	12,519.98	100.24	127.84	-79.142	-511.03	2,813.82	6,958.04	6,834.85	123.18	56.484	
19,300.00	13,108.00	20,964.00	12,519.98	101.64	127.84	-79.142	-511.03	2,813.82	7,047.55	6,924.91	122.65	57.462	
19,400.00	13,108.00	20,964.00	12,519.98	103.03	127.84	-79.142	-511.03	2,813.82	7,137.35	7,015.22	122.12	58.444	
19,500.00	13,108.00	20,964.00	12,519.98	104.43	127.84	-79.142	-511.03	2,813.82	7,227.41	7,105.80	121.61	59.431	
19,600.00	13,108.00	20,964.00	12,519.98	105.83	127.84	-79.142	-511.03	2,813.82	7,317.73	7,196.61	121.11	60.421	
19,700.00	13,108.00	20,964.00	12,519.98	107.23	127.84	-79.142	-511.03	2,813.82	7,408.29	7,287.67	120.62	61.416	
19,800.00	13,108.00	20,964.00	12,519.98	108.63	127.84	-79.142	-511.03	2,813.82	7,499.10	7,378.95	120.15	62.414	
19,900.00	13,108.00	20,964.00	12,519.98	110.03	127.84	-79.142	-511.03	2,813.82	7,590.14	7,470.45	119.69	63.416	
20,000.00	13,108.00	20,964.00	12,519.98	111.43	127.84	-79.142	-511.03	2,813.82	7,681.40	7,562.16	119.24	64.422	
20,100.00	13,108.00	20,964.00	12,519.98	112.84	127.84	-79.142	-511.03	2,813.82	7,772.88	7,654.08	118.80	65.430	
20,200.00	13,108.00	20,964.00	12,519.98	114.24	127.84	-79.142	-511.03	2,813.82	7,864.56	7,746.19	118.37	66.442	
20,300.00	13,108.00	20,964.00	12,519.98	115.65	127.84	-79.142	-511.03	2,813.82	7,956.45	7,838.50	117.95	67.456	
20,400.00	13,108.00	20,964.00	12,519.98	117.05	127.84	-79.142	-511.03	2,813.82	8,048.52	7,930.98	117.54	68.473	
20,500.00	13,108.00	20,964.00	12,519.98	118.46	127.84	-79.142	-511.03	2,813.82	8,140.79	8,023.64	117.15	69.492	
20,600.00	13,108.00	20,964.00	12,519.98	119.87	127.84	-79.142	-511.03	2,813.82	8,233.23	8,116.47	116.76	70.513	
20,700.00	13,108.00	20,964.00	12,519.98	121.28	127.84	-79.142	-511.03	2,813.82	8,325.85	8,209.47	116.39	71.537	
20,800.00	13,108.00	20,964.00	12,519.98	122.68	127.84	-79.142	-511.03	2,813.82	8,418.64	8,302.62	116.02	72.563	
20,900.00	13,108.00	20,964.00	12,519.98	124.09	127.84	-79.142	-511.03	2,813.82	8,511.60	8,395.93	115.66	73.590	
21,000.00	13,108.00	20,964.00	12,519.98	125.51	127.84	-79.142	-511.03	2,813.82	8,604.71	8,489.39	115.32	74.619	
21,100.00	13,108.00	20,964.00	12,519.98	126.92	127.84	-79.142	-511.03	2,813.82	8,697.97	8,582.99	114.98	75.650	
21,200.00	13,108.00	20,964.00	12,519.98	128.33	127.84	-79.142	-511.03	2,813.82	8,791.38	8,676.73	114.65	76.682	
21,300.00	13,108.00	20,964.00	12,519.98	129.74	127.84	-79.142	-511.03	2,813.82	8,884.94	8,770.61	114.33	77.715	
21,400.00	13,108.00	20,964.00	12,519.98	131.15	127.84	-79.142	-511.03	2,813.82	8,978.63	8,864.61	114.02	78.749	
21,500.00	13,108.00	20,964.00	12,519.98	132.57	127.84	-79.142	-511.03	2,813.82	9,072.46	8,958.74	113.71	79.784	
21,600.00	13,108.00	20,964.00	12,519.98	133.98	127.84	-79.142	-511.03	2,813.82	9,166.42	9,053.00	113.42	80.820	
21,700.00	13,108.00	20,964.00	12,519.98	135.39	127.84	-79.142	-511.03	2,813.82	9,260.50	9,147.37	113.13	81.857	
21,800.00	13,108.00	20,964.00	12,519.98	136.81	127.84	-79.142	-511.03	2,813.82	9,354.71	9,241.86	112.85	82.894	
21,900.00	13,108.00	20,964.00	12,519.98	138.22	127.84	-79.142	-511.03	2,813.82	9,449.04	9,336.46	112.58	83.932	
22,000.00	13,108.00	20,964.00	12,519.98	139.64	127.84	-79.142	-511.03	2,813.82	9,543.48	9,431.16	112.32	84.970	
22,100.00	13,108.00	20,964.00	12,519.98	141.06	127.84	-79.142	-511.03	2,813.82	9,638.03	9,525.97	112.06	86.008	
22,200.00	13,108.00	20,964.00	12,519.98	142.47	127.84	-79.142	-511.03	2,813.82	9,732.70	9,620.89	111.81	87.046	
22,300.00	13,108.00	20,964.00	12,519.98	143.89	127.84	-79.142	-511.03	2,813.82	9,827.47	9,715.90	111.57	88.085	
22,400.00	13,108.00	20,964.00	12,519.98	145.31	127.84	-79.142	-511.03	2,813.82	9,922.34	9,811.01	111.33	89.123	
22,500.00	13,108.00	20,964.00	12,519.98	146.72	127.84	-79.142	-511.03	2,813.82	10,017.31	9,906.21	111.10	90.161	
22,600.00	13,108.00	20,964.00	12,519.98	148.14	127.84	-79.142	-511.03	2,813.82	10,112.38	10,001.50	110.88	91.199	
22,700.00	13,108.00	20,964.00	12,519.98	149.56	127.84	-79.142	-511.03	2,813.82	10,207.54	10,096.88	110.67	92.236	
22,800.00	13,108.00	20,964.00	12,519.98	150.98	127.84	-79.142	-511.03	2,813.82	10,302.80	10,192.34	110.46	93.273	
22,900.00	13,108.00	20,964.00	12,519.98	152.40	127.84	-79.142	-511.03	2,813.82	10,398.14	10,287.89	110.26	94.309	
23,000.00	13,108.00	20,964.00	12,519.98	153.82	127.84	-79.142	-511.03	2,813.82	10,493.57	10,383.51	110.06	95.345	
23,100.00	13,108.00	20,964.00	12,519.98	155.24	127.84	-79.142	-511.03	2,813.82	10,589.09	10,479.22	109.87	96.380	
23,200.00	13,108.00	20,964.00	12,519.98	156.66	127.84	-79.142	-511.03	2,813.82	10,684.68	10,575.00	109.68	97.414	
23,247.14	13,108.00	20,964.00	12,519.98	157.33	127.84	-79.142	-511.03	2,813.82	10,729.77	10,620.17	109.60	97.901	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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 (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	103.64	59.63	1.00	1.18	14.887	8,052.58	2,140.65	8,332.46				
100.00	100.00	216.59	172.55	1.08	1.68	14.869	8,052.16	2,137.86	8,331.45	8,328.69	2.76	3,019.385	
200.00	200.00	297.00	252.95	1.60	2.22	14.865	8,051.89	2,137.15	8,330.85	8,327.06	3.79	2,197.905	
300.00	300.00	360.83	316.79	2.01	2.60	14.867	8,051.69	2,137.35	8,330.56	8,326.03	4.52	1,841.831	
400.00	400.00	449.00	404.95	2.35	3.04	14.871	8,051.40	2,137.89	8,330.40	8,325.17	5.23	1,592.641	
422.35	422.35	466.40	422.35	2.42	3.08	14.871	8,051.37	2,137.99	8,330.40	8,325.06	5.34	1,560.723	
500.00	500.00	535.99	491.94	2.65	3.23	14.874	8,051.34	2,138.33	8,330.47	8,324.74	5.73	1,454.843	
600.00	600.00	637.94	593.89	2.93	3.44	14.877	8,051.24	2,138.79	8,330.48	8,324.28	6.20	1,343.261	
700.00	700.00	722.36	678.30	3.18	3.60	14.880	8,051.27	2,139.34	8,330.68	8,324.07	6.61	1,259.740	
800.00	800.00	811.63	767.57	3.41	3.77	14.885	8,051.33	2,140.07	8,330.96	8,323.96	7.01	1,188.708	
900.00	900.00	888.84	844.78	3.64	3.90	14.889	8,051.62	2,140.69	8,331.52	8,324.16	7.36	1,131.738	
1,000.00	1,000.00	1,002.60	958.54	3.85	4.09	14.893	8,052.11	2,141.39	8,332.10	8,324.33	7.77	1,072.916	
1,100.00	1,100.00	1,127.27	1,083.20	4.05	4.29	14.896	8,052.44	2,141.98	8,332.48	8,324.30	8.18	1,019.008	
1,200.00	1,200.00	1,242.09	1,198.02	4.24	4.45	14.898	8,052.46	2,142.25	8,332.55	8,324.02	8.52	977.925	
1,300.00	1,300.00	1,331.85	1,287.78	4.43	4.59	14.899	8,052.49	2,142.41	8,332.63	8,323.78	8.85	941.522	
1,400.00	1,400.00	1,426.58	1,382.52	4.61	4.75	14.900	8,052.60	2,142.69	8,332.82	8,323.63	9.19	907.188	
1,500.00	1,500.00	1,533.94	1,489.88	4.78	4.92	14.901	8,052.74	2,142.86	8,332.98	8,323.44	9.53	874.041	
1,600.00	1,599.98	1,636.34	1,592.28	4.99	5.05	164.705	8,052.83	2,142.90	8,334.76	8,324.88	9.88	843.495	
1,638.42	1,638.36	1,674.21	1,630.15	5.04	5.10	164.699	8,052.87	2,142.89	8,336.34	8,326.35	9.99	834.596	
1,700.00	1,699.87	1,738.11	1,694.04	5.10	5.15	164.704	8,052.95	2,142.83	8,339.26	8,329.13	10.13	822.949	
1,800.00	1,799.76	1,840.08	1,796.01	5.26	5.24	164.711	8,053.06	2,142.61	8,343.97	8,333.56	10.41	801.363	
1,900.00	1,899.64	1,941.44	1,897.38	5.44	5.33	164.719	8,053.13	2,142.50	8,348.67	8,337.96	10.72	779.154	
2,000.00	1,999.52	2,034.96	1,990.89	5.64	5.50	164.731	8,053.05	2,142.96	8,353.38	8,342.31	11.06	755.032	
2,100.00	2,099.41	2,124.33	2,080.22	5.84	5.80	164.755	8,052.59	2,145.26	8,358.20	8,346.76	11.44	730.636	
2,200.00	2,199.29	2,219.33	2,175.11	6.07	6.12	164.794	8,051.66	2,149.76	8,363.14	8,351.34	11.80	708.598	
2,300.00	2,299.17	2,308.67	2,264.31	6.30	6.35	164.837	8,050.63	2,154.74	8,368.13	8,355.98	12.15	688.905	
2,400.00	2,399.06	2,397.17	2,352.66	6.54	6.57	164.879	8,049.74	2,159.73	8,373.29	8,360.79	12.50	669.832	
2,500.00	2,498.94	2,470.32	2,425.70	6.79	6.75	164.914	8,049.09	2,163.90	8,378.61	8,365.77	12.84	652.397	
2,600.00	2,598.82	2,540.00	2,495.26	7.04	6.93	164.947	8,048.92	2,167.86	8,384.46	8,371.27	13.19	635.696	
2,700.00	2,698.71	2,577.48	2,532.68	7.31	7.03	164.964	8,049.05	2,169.98	8,390.81	8,377.31	13.50	621.537	
2,800.00	2,798.59	2,635.00	2,590.10	7.58	7.18	164.989	8,049.49	2,173.27	8,397.71	8,383.86	13.85	606.518	
2,900.00	2,898.47	2,729.00	2,683.92	7.85	7.44	165.034	8,050.37	2,179.01	8,404.88	8,390.62	14.26	589.495	
3,000.00	2,998.36	2,824.00	2,778.70	8.13	7.71	165.083	8,051.17	2,185.46	8,412.15	8,397.47	14.68	573.108	
3,100.00	3,098.24	2,943.93	2,898.40	8.41	8.06	165.140	8,052.21	2,192.90	8,419.30	8,404.15	15.15	555.904	
3,200.00	3,198.12	3,032.56	2,986.89	8.70	8.32	165.178	8,053.12	2,197.72	8,426.39	8,410.83	15.57	541.315	
3,300.00	3,298.01	3,108.00	3,062.21	8.99	8.54	165.210	8,053.99	2,201.93	8,433.67	8,417.70	15.97	528.074	
3,400.00	3,397.89	3,204.00	3,158.04	9.28	8.82	165.252	8,055.25	2,207.48	8,441.15	8,424.73	16.42	514.128	
3,500.00	3,497.77	3,270.10	3,224.01	9.58	9.02	165.282	8,056.27	2,211.39	8,448.88	8,432.06	16.82	502.332	
3,600.00	3,597.66	3,572.55	3,525.99	9.88	10.18	165.412	8,058.02	2,227.93	8,455.54	8,437.76	17.78	475.518	
3,700.00	3,697.54	3,697.27	3,650.69	10.18	10.90	165.438	8,058.24	2,230.38	8,460.92	8,442.39	18.53	456.587	
3,800.00	3,797.42	3,934.13	3,887.52	10.49	11.21	165.468	8,057.82	2,231.99	8,465.97	8,446.95	19.02	445.225	
3,900.00	3,897.31	4,035.82	3,989.20	10.79	11.15	165.472	8,056.76	2,231.00	8,469.38	8,450.07	19.31	438.574	
4,000.00	3,997.19	4,136.93	4,090.31	11.10	11.09	165.477	8,055.93	2,230.16	8,473.04	8,453.42	19.62	431.947	
4,100.00	4,097.07	4,233.04	4,186.41	11.41	11.13	165.481	8,055.07	2,229.34	8,476.62	8,456.60	20.02	423.415	
4,200.00	4,196.96	4,325.68	4,279.04	11.72	11.18	165.486	8,054.24	2,228.82	8,480.29	8,459.84	20.44	414.803	
4,300.00	4,296.84	4,433.16	4,386.51	12.03	11.34	165.495	8,053.21	2,228.52	8,483.96	8,463.03	20.94	405.244	
4,400.00	4,396.72	4,538.77	4,492.12	12.35	11.51	165.505	8,052.01	2,228.44	8,487.53	8,466.07	21.45	395.652	
4,500.00	4,496.61	4,623.00	4,576.34	12.66	11.61	165.517	8,051.03	2,228.87	8,491.22	8,469.40	21.81	389.263	
4,600.00	4,596.49	20,722.46	12,689.92	12.98	119.65	-128.159	-119.11	2,188.91	8,403.73	8,319.27	84.46	99.502	
4,700.00	4,696.37	20,727.25	12,689.95	13.29	119.72	-128.050	-123.89	2,188.83	8,308.25	8,223.48	84.76	98.018	
4,800.00	4,796.26	20,732.03	12,689.98	13.61	119.79	-127.941	-128.68	2,188.75	8,212.86	8,127.79	85.07	96.539	
4,900.00	4,896.14	20,736.81	12,690.00	13.93	119.86	-127.832	-133.46	2,188.67	8,117.59	8,032.20	85.39	95.065	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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 (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,000.00	4,996.02	20,741.59	12,690.03	14.25	119.93	-127.723	-138.24	2,188.58	8,022.43	7,936.72	85.71	93.596	
5,100.00	5,095.91	20,746.38	12,690.06	14.57	120.00	-127.614	-143.02	2,188.50	7,927.38	7,841.34	86.04	92.133	
5,200.00	5,195.79	20,809.71	12,690.02	14.89	120.90	-126.160	-206.34	2,187.96	7,832.45	7,745.62	86.83	90.206	
5,300.00	5,295.67	20,812.10	12,690.00	15.21	120.93	-126.105	-208.73	2,187.97	7,737.62	7,650.47	87.15	88.781	
5,400.00	5,395.56	20,814.49	12,689.98	15.54	120.97	-126.050	-211.12	2,187.98	7,642.92	7,555.44	87.49	87.360	
5,500.00	5,495.44	20,816.88	12,689.96	15.86	121.00	-125.995	-213.51	2,187.99	7,548.36	7,460.53	87.83	85.945	
5,600.00	5,595.32	20,819.27	12,689.94	16.19	121.03	-125.940	-215.90	2,188.00	7,453.94	7,365.76	88.18	84.534	
5,700.00	5,695.21	20,821.66	12,689.92	16.51	121.07	-125.884	-218.30	2,188.02	7,359.66	7,271.13	88.53	83.129	
5,800.00	5,795.09	20,824.06	12,689.90	16.83	121.10	-125.829	-220.69	2,188.03	7,265.54	7,176.64	88.90	81.729	
5,900.00	5,894.97	20,826.45	12,689.88	17.16	121.13	-125.774	-223.08	2,188.05	7,171.57	7,082.30	89.27	80.335	
6,000.00	5,994.86	20,828.85	12,689.86	17.49	121.17	-125.718	-225.48	2,188.06	7,077.77	6,988.12	89.65	78.946	
6,100.00	6,094.74	20,831.24	12,689.84	17.81	121.20	-125.663	-227.87	2,188.08	6,984.14	6,894.09	90.04	77.564	
6,200.00	6,194.62	20,833.64	12,689.82	18.14	121.24	-125.608	-230.27	2,188.10	6,890.68	6,800.24	90.44	76.187	
6,300.00	6,294.51	20,836.03	12,689.80	18.47	121.27	-125.552	-232.67	2,188.12	6,797.42	6,706.56	90.85	74.817	
6,400.00	6,394.39	20,838.43	12,689.78	18.79	121.30	-125.497	-235.06	2,188.14	6,704.34	6,613.07	91.27	73.453	
6,500.00	6,494.27	20,840.83	12,689.76	19.12	121.34	-125.442	-237.46	2,188.16	6,611.47	6,519.76	91.70	72.095	
6,600.00	6,594.16	20,843.23	12,689.74	19.45	121.37	-125.386	-239.86	2,188.18	6,518.80	6,426.66	92.15	70.745	
6,700.00	6,694.04	20,845.63	12,689.72	19.78	121.41	-125.331	-242.26	2,188.20	6,426.36	6,333.76	92.60	69.401	
6,800.00	6,793.92	20,848.02	12,689.70	20.11	121.44	-125.275	-244.66	2,188.23	6,334.14	6,241.08	93.06	68.064	
6,900.00	6,893.81	20,850.42	12,689.68	20.44	121.47	-125.220	-247.06	2,188.25	6,242.16	6,148.62	93.54	66.734	
7,000.00	6,993.69	20,852.83	12,689.66	20.77	121.51	-125.164	-249.46	2,188.27	6,150.43	6,056.40	94.03	65.412	
7,100.00	7,093.57	20,855.23	12,689.64	21.10	121.54	-125.108	-251.86	2,188.30	6,058.96	5,964.43	94.53	64.098	
7,200.00	7,193.46	20,857.63	12,689.62	21.43	121.58	-125.053	-254.26	2,188.33	5,967.76	5,872.72	95.04	62.792	
7,300.00	7,293.34	20,860.03	12,689.60	21.76	121.61	-124.997	-256.66	2,188.36	5,876.85	5,781.28	95.57	61.493	
7,400.00	7,393.22	20,862.44	12,689.58	22.09	121.64	-124.941	-259.06	2,188.38	5,786.24	5,690.12	96.11	60.203	
7,500.00	7,493.11	20,877.00	12,689.46	22.42	121.85	-124.604	-273.63	2,188.58	5,695.95	5,599.19	96.77	58.864	
7,600.00	7,592.99	20,877.00	12,689.46	22.75	121.85	-124.604	-273.63	2,188.58	5,605.97	5,508.65	97.32	57.604	
7,700.00	7,692.87	20,877.00	12,689.46	23.08	121.85	-124.604	-273.63	2,188.58	5,516.34	5,418.45	97.89	56.352	
7,800.00	7,792.76	20,877.00	12,689.46	23.41	121.85	-124.604	-273.63	2,188.58	5,427.06	5,328.59	98.48	55.109	
7,900.00	7,892.64	20,877.00	12,689.46	23.74	121.85	-124.604	-273.63	2,188.58	5,338.17	5,239.09	99.08	53.876	
8,000.00	7,992.52	20,877.00	12,689.46	24.07	121.85	-124.604	-273.63	2,188.58	5,249.68	5,149.97	99.71	52.651	
8,100.00	8,092.41	20,877.00	12,689.46	24.40	121.85	-124.604	-273.63	2,188.58	5,161.61	5,061.26	100.35	51.437	
8,200.00	8,192.29	20,877.00	12,689.46	24.74	121.85	-124.604	-273.63	2,188.58	5,073.98	4,972.97	101.01	50.232	
8,300.00	8,292.17	20,877.00	12,689.46	25.07	121.85	-124.604	-273.63	2,188.58	4,986.81	4,885.12	101.69	49.038	
8,400.00	8,392.06	20,877.00	12,689.46	25.40	121.85	-124.604	-273.63	2,188.58	4,900.14	4,797.74	102.40	47.854	
8,500.00	8,491.94	20,877.00	12,689.46	25.73	121.85	-124.604	-273.63	2,188.58	4,813.98	4,710.86	103.12	46.682	
8,600.00	8,591.82	20,877.00	12,689.46	26.07	121.85	-124.604	-273.63	2,188.58	4,728.37	4,624.50	103.87	45.521	
8,700.00	8,691.71	20,877.00	12,689.46	26.40	121.85	-124.604	-273.63	2,188.58	4,643.33	4,538.69	104.65	44.372	
8,800.00	8,791.59	20,877.00	12,689.46	26.73	121.85	-124.604	-273.63	2,188.58	4,558.90	4,453.46	105.44	43.235	
8,900.00	8,891.47	20,877.00	12,689.46	27.06	121.85	-124.604	-273.63	2,188.58	4,475.11	4,368.85	106.27	42.112	
9,000.00	8,991.36	20,877.00	12,689.46	27.40	121.85	-124.604	-273.63	2,188.58	4,392.00	4,284.89	107.12	41.002	
9,100.00	9,091.24	20,877.00	12,689.46	27.73	121.85	-124.604	-273.63	2,188.58	4,309.61	4,201.62	108.00	39.905	
9,200.00	9,191.12	20,877.00	12,689.46	28.06	121.85	-124.604	-273.63	2,188.58	4,227.98	4,119.08	108.90	38.824	
9,300.00	9,291.01	20,877.00	12,689.46	28.40	121.85	-124.604	-273.63	2,188.58	4,147.15	4,037.31	109.84	37.757	
9,400.00	9,390.89	20,900.71	12,689.32	28.73	122.18	-124.054	-297.33	2,188.94	4,067.04	3,956.04	111.00	36.640	
9,500.00	9,490.77	20,902.69	12,689.32	29.06	122.21	-124.008	-299.32	2,188.98	3,987.95	3,875.93	112.01	35.602	
9,600.00	9,590.66	20,904.72	12,689.31	29.40	122.24	-123.961	-301.35	2,189.01	3,909.80	3,796.74	113.06	34.582	
9,700.00	9,690.54	20,906.80	12,689.31	29.73	122.27	-123.913	-303.42	2,189.05	3,832.68	3,718.54	114.14	33.579	
9,800.00	9,790.42	20,908.92	12,689.31	30.06	122.30	-123.864	-305.54	2,189.08	3,756.63	3,641.38	115.25	32.595	
9,900.00	9,890.31	20,911.09	12,689.30	30.40	122.33	-123.813	-307.72	2,189.12	3,681.72	3,565.32	116.40	31.631	
10,000.00	9,990.19	20,913.32	12,689.30	30.73	122.36	-123.761	-309.94	2,189.16	3,608.03	3,490.45	117.58	30.687	
10,100.00	10,090.07	20,915.60	12,689.30	31.07	122.39	-123.709	-312.22	2,189.20	3,535.62	3,416.84	118.79	29.764	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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			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	
10,200.00	10,189.96	20,917.93	12,689.30	31.40	122.43	-123.654	-314.55	2,189.24	3,464.59	3,344.56	120.03	28.863	
10,300.00	10,289.84	20,920.32	12,689.31	31.74	122.46	-123.599	-316.94	2,189.29	3,395.02	3,273.70	121.31	27.986	
10,400.00	10,389.72	20,922.77	12,689.31	32.07	122.50	-123.542	-319.39	2,189.33	3,326.99	3,204.37	122.62	27.132	
10,500.00	10,489.60	20,925.28	12,689.32	32.40	122.53	-123.484	-321.90	2,189.38	3,260.61	3,136.65	123.96	26.304	
10,600.00	10,589.49	20,927.86	12,689.32	32.74	122.57	-123.424	-324.48	2,189.43	3,195.97	3,070.64	125.32	25.502	
10,700.00	10,689.37	20,930.50	12,689.33	33.07	122.60	-123.362	-327.12	2,189.48	3,133.19	3,006.47	126.71	24.726	
10,800.00	10,789.25	20,933.21	12,689.34	33.41	122.64	-123.299	-329.83	2,189.53	3,072.38	2,944.25	128.12	23.980	
10,900.00	10,889.14	20,936.00	12,689.35	33.74	122.68	-123.235	-332.62	2,189.59	3,013.65	2,884.10	129.55	23.262	
11,000.00	10,989.02	20,938.86	12,689.37	34.08	122.72	-123.168	-335.47	2,189.65	2,957.14	2,826.15	130.99	22.575	
11,100.00	11,088.90	20,941.79	12,689.38	34.41	122.76	-123.100	-338.41	2,189.71	2,902.97	2,770.53	132.44	21.920	
11,200.00	11,188.79	20,944.81	12,689.40	34.75	122.81	-123.030	-341.42	2,189.77	2,851.27	2,717.39	133.88	21.297	
11,300.00	11,288.67	20,947.91	12,689.42	35.08	122.85	-122.958	-344.53	2,189.84	2,802.18	2,666.86	135.32	20.708	
11,400.00	11,388.55	20,951.10	12,689.45	35.42	122.89	-122.884	-347.71	2,189.90	2,755.85	2,619.11	136.74	20.154	
11,500.00	11,488.44	20,954.38	12,689.48	35.75	122.94	-122.808	-350.99	2,189.98	2,712.40	2,574.26	138.14	19.635	
11,600.00	11,588.32	20,972.00	12,689.66	36.09	123.19	-122.398	-368.61	2,190.38	2,672.04	2,532.44	139.61	19.140	
11,700.00	11,688.20	20,972.00	12,689.66	36.42	123.19	-122.398	-368.61	2,190.38	2,634.78	2,493.88	140.90	18.700	
11,800.00	11,788.09	20,972.00	12,689.66	36.76	123.19	-122.398	-368.61	2,190.38	2,600.82	2,458.69	142.13	18.299	
11,900.00	11,887.97	20,972.00	12,689.66	37.09	123.19	-122.398	-368.61	2,190.38	2,570.31	2,427.01	143.30	17.936	
11,908.72	11,896.68	20,972.00	12,689.66	37.12	123.19	-122.398	-368.61	2,190.38	2,567.82	2,424.42	143.40	17.906	
12,000.00	11,987.91	20,972.00	12,689.66	37.41	123.19	-121.954	-368.61	2,190.38	2,542.62	2,398.25	144.38	17.611	
12,047.14	12,035.04	20,972.00	12,689.66	37.47	123.19	-88.455	-368.61	2,190.38	2,530.22	2,385.42	144.79	17.475	
12,100.00	12,087.91	20,972.00	12,689.66	37.47	123.19	88.455	-368.61	2,190.38	2,517.06	2,371.87	145.19	17.336	
12,200.00	12,187.91	20,972.00	12,689.66	37.48	123.19	88.455	-368.61	2,190.38	2,495.04	2,349.16	145.88	17.103	
12,300.00	12,287.91	20,972.00	12,689.66	37.48	123.19	88.455	-368.61	2,190.38	2,476.87	2,330.40	146.47	16.910	
12,400.00	12,387.91	20,972.00	12,689.66	37.49	123.19	88.455	-368.61	2,190.38	2,462.63	2,315.68	146.95	16.759	
12,500.00	12,487.91	20,972.00	12,689.66	37.50	123.19	88.455	-368.61	2,190.38	2,452.38	2,305.07	147.31	16.648	
12,547.14	12,535.04	20,972.00	12,689.66	37.49	123.19	88.455	-368.61	2,190.38	2,448.95	2,301.53	147.43	16.611	
12,550.00	12,537.91	20,972.00	12,689.66	37.50	123.19	-90.988	-368.61	2,190.38	2,448.77	2,301.34	147.44	16.609	
12,600.00	12,587.83	20,972.00	12,689.66	37.64	123.19	-91.243	-368.61	2,190.38	2,446.23	2,298.65	147.58	16.575	
12,650.00	12,637.36	20,984.79	12,689.83	37.90	123.37	-91.092	-381.39	2,190.69	2,444.76	2,296.92	147.84	16.537	
12,693.28	12,679.60	20,992.28	12,689.93	38.14	123.48	-90.960	-388.88	2,190.88	2,444.36	2,296.31	148.05	16.510 CC	
12,700.00	12,686.10	20,993.66	12,689.95	38.17	123.50	-90.928	-390.26	2,190.92	2,444.37	2,296.29	148.08	16.507 ES	
12,750.00	12,733.70	21,005.75	12,690.12	38.46	123.67	-90.595	-402.35	2,191.24	2,445.02	2,296.65	148.37	16.479	
12,800.00	12,779.78	21,020.98	12,690.34	38.75	123.88	-90.107	-417.57	2,191.69	2,446.63	2,297.93	148.70	16.453	
12,850.00	12,824.00	21,039.25	12,690.63	39.03	124.14	-89.483	-435.83	2,192.25	2,449.12	2,300.04	149.07	16.429	
12,900.00	12,866.02	21,067.00	12,691.10	39.31	124.53	-88.621	-463.56	2,193.20	2,452.38	2,302.85	149.53	16.400	
12,950.00	12,905.52	21,089.70	12,691.50	39.57	124.85	-87.825	-486.24	2,194.02	2,456.25	2,306.26	149.98	16.377	
13,000.00	12,942.21	21,124.28	12,692.11	39.82	125.34	-86.814	-520.79	2,195.26	2,460.53	2,309.98	150.55	16.344	
13,050.00	12,975.79	21,131.00	12,692.23	40.06	125.44	-86.234	-527.50	2,195.50	2,465.24	2,314.31	150.93	16.333	
13,100.00	13,006.02	21,131.00	12,692.23	40.27	125.44	-85.691	-527.50	2,195.50	2,470.66	2,319.39	151.27	16.333 SF	
13,150.00	13,032.66	21,131.00	12,692.23	40.46	125.44	-85.079	-527.50	2,195.50	2,476.75	2,325.15	151.60	16.337	
13,200.00	13,055.52	21,131.00	12,692.23	40.63	125.44	-84.404	-527.50	2,195.50	2,483.46	2,331.54	151.93	16.346	
13,250.00	13,074.42	21,131.00	12,692.23	40.77	125.44	-83.672	-527.50	2,195.50	2,490.74	2,338.51	152.24	16.361	
13,300.00	13,089.21	21,131.00	12,692.23	40.89	125.44	-82.890	-527.50	2,195.50	2,498.53	2,346.00	152.53	16.381	
13,350.00	13,099.79	21,131.00	12,692.23	40.99	125.44	-82.063	-527.50	2,195.50	2,506.75	2,353.95	152.80	16.406	
13,400.00	13,106.06	21,131.00	12,692.23	41.06	125.44	-81.199	-527.50	2,195.50	2,515.35	2,362.31	153.04	16.436	
13,447.14	13,108.00	21,131.00	12,692.23	41.11	125.44	-80.358	-527.50	2,195.50	2,523.74	2,370.49	153.25	16.468	
13,500.00	13,108.00	21,131.00	12,692.23	41.15	125.44	-80.358	-527.50	2,195.50	2,533.81	2,380.38	153.44	16.514	
13,600.00	13,108.00	21,131.00	12,692.23	41.25	125.44	-80.358	-527.50	2,195.50	2,555.75	2,402.10	153.66	16.633	
13,700.00	13,108.00	21,131.00	12,692.23	41.37	125.44	-80.358	-527.50	2,195.50	2,581.38	2,427.68	153.70	16.795	
13,800.00	13,108.00	21,131.00	12,692.23	41.51	125.44	-80.358	-527.50	2,195.50	2,610.59	2,457.02	153.56	17.000	
13,900.00	13,108.00	21,131.00	12,692.23	41.67	125.44	-80.358	-527.50	2,195.50	2,643.26	2,489.99	153.27	17.246	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 434H - OH / 67733 - Surveys (H&P 474)													Offset Site Error: 0.00 usft		
Survey Program: 174-MWD+HRGM		Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error: 1.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
14,000.00	13,108.00	21,131.00	12,692.23	41.87	125.44	-80.358	-527.50	2,195.50	2,679.27	2,526.45	152.82	17.532			
14,100.00	13,108.00	21,131.00	12,692.23	42.10	125.44	-80.358	-527.50	2,195.50	2,718.48	2,566.25	152.23	17.857			
14,200.00	13,108.00	21,131.00	12,692.23	42.37	125.44	-80.358	-527.50	2,195.50	2,760.76	2,609.24	151.52	18.221			
14,300.00	13,108.00	21,131.00	12,692.23	42.69	125.44	-80.358	-527.50	2,195.50	2,805.96	2,655.27	150.69	18.620			
14,400.00	13,108.00	21,131.00	12,692.23	43.06	125.44	-80.358	-527.50	2,195.50	2,853.96	2,704.19	149.77	19.056			
14,500.00	13,108.00	21,131.00	12,692.23	43.48	125.44	-80.358	-527.50	2,195.50	2,904.61	2,755.85	148.76	19.525			
14,600.00	13,108.00	21,131.00	12,692.23	43.97	125.44	-80.358	-527.50	2,195.50	2,957.77	2,810.09	147.68	20.028			
14,700.00	13,108.00	21,131.00	12,692.23	44.53	125.44	-80.358	-527.50	2,195.50	3,013.31	2,866.77	146.54	20.563			
14,800.00	13,108.00	21,131.00	12,692.23	45.16	125.44	-80.358	-527.50	2,195.50	3,071.11	2,925.76	145.35	21.129			
14,900.00	13,108.00	21,131.00	12,692.23	45.87	125.44	-80.358	-527.50	2,195.50	3,131.03	2,986.91	144.12	21.725			
15,000.00	13,108.00	21,131.00	12,692.23	46.64	125.44	-80.358	-527.50	2,195.50	3,192.96	3,050.10	142.86	22.350			
15,100.00	13,108.00	21,131.00	12,692.23	47.49	125.44	-80.358	-527.50	2,195.50	3,256.79	3,115.20	141.59	23.002			
15,200.00	13,108.00	21,131.00	12,692.23	48.39	125.44	-80.358	-527.50	2,195.50	3,322.39	3,182.10	140.30	23.681			
15,300.00	13,108.00	21,131.00	12,692.23	49.36	125.44	-80.358	-527.50	2,195.50	3,389.68	3,250.68	139.00	24.386			
15,400.00	13,108.00	21,131.00	12,692.23	50.38	125.44	-80.358	-527.50	2,195.50	3,458.56	3,320.85	137.70	25.116			
15,500.00	13,108.00	21,131.00	12,692.23	51.44	125.44	-80.358	-527.50	2,195.50	3,528.92	3,392.50	136.41	25.869			
15,600.00	13,108.00	21,131.00	12,692.23	52.54	125.44	-80.358	-527.50	2,195.50	3,600.68	3,465.55	135.13	26.646			
15,700.00	13,108.00	21,131.00	12,692.23	53.67	125.44	-80.358	-527.50	2,195.50	3,673.77	3,539.90	133.86	27.444			
15,800.00	13,108.00	21,131.00	12,692.23	54.84	125.44	-80.358	-527.50	2,195.50	3,748.09	3,615.48	132.61	28.264			
15,900.00	13,108.00	21,131.00	12,692.23	56.02	125.44	-80.358	-527.50	2,195.50	3,823.59	3,692.22	131.38	29.104			
16,000.00	13,108.00	21,131.00	12,692.23	57.24	125.44	-80.358	-527.50	2,195.50	3,900.19	3,770.03	130.16	29.964			
16,100.00	13,108.00	21,131.00	12,692.23	58.47	125.44	-80.358	-527.50	2,195.50	3,977.83	3,848.86	128.97	30.842			
16,200.00	13,108.00	21,131.00	12,692.23	59.71	125.44	-80.358	-527.50	2,195.50	4,056.45	3,928.65	127.81	31.739			
16,300.00	13,108.00	21,131.00	12,692.23	60.97	125.44	-80.358	-527.50	2,195.50	4,136.00	4,009.33	126.67	32.652			
16,400.00	13,108.00	21,131.00	12,692.23	62.25	125.44	-80.358	-527.50	2,195.50	4,216.41	4,090.86	125.55	33.583			
16,500.00	13,108.00	21,131.00	12,692.23	63.53	125.44	-80.358	-527.50	2,195.50	4,297.65	4,173.18	124.47	34.529			
16,600.00	13,108.00	21,131.00	12,692.23	64.83	125.44	-80.358	-527.50	2,195.50	4,379.66	4,256.26	123.41	35.490			
16,700.00	13,108.00	21,131.00	12,692.23	66.13	125.44	-80.358	-527.50	2,195.50	4,462.41	4,340.04	122.37	36.466			
16,800.00	13,108.00	21,131.00	12,692.23	67.45	125.44	-80.358	-527.50	2,195.50	4,545.85	4,424.48	121.37	37.456			
16,900.00	13,108.00	21,131.00	12,692.23	68.77	125.44	-80.358	-527.50	2,195.50	4,629.94	4,509.56	120.39	38.459			
17,000.00	13,108.00	21,131.00	12,692.23	70.10	125.44	-80.358	-527.50	2,195.50	4,714.66	4,595.23	119.44	39.475			
17,100.00	13,108.00	21,131.00	12,692.23	71.43	125.44	-80.358	-527.50	2,195.50	4,799.97	4,681.46	118.51	40.502			
17,200.00	13,108.00	21,131.00	12,692.23	72.77	125.44	-80.358	-527.50	2,195.50	4,885.83	4,768.22	117.61	41.542			
17,300.00	13,108.00	21,131.00	12,692.23	74.11	125.44	-80.358	-527.50	2,195.50	4,972.22	4,855.48	116.74	42.592			
17,400.00	13,108.00	21,131.00	12,692.23	75.46	125.44	-80.358	-527.50	2,195.50	5,059.12	4,943.22	115.89	43.653			
17,500.00	13,108.00	21,131.00	12,692.23	76.81	125.44	-80.358	-527.50	2,195.50	5,146.48	5,031.41	115.07	44.724			
17,600.00	13,108.00	21,131.00	12,692.23	78.17	125.44	-80.358	-527.50	2,195.50	5,234.31	5,120.03	114.27	45.805			
17,700.00	13,108.00	21,131.00	12,692.23	79.53	125.44	-80.358	-527.50	2,195.50	5,322.56	5,209.06	113.50	46.894			
17,800.00	13,108.00	21,131.00	12,692.23	80.89	125.44	-80.358	-527.50	2,195.50	5,411.22	5,298.46	112.75	47.992			
17,900.00	13,108.00	21,131.00	12,692.23	82.26	125.44	-80.358	-527.50	2,195.50	5,500.26	5,388.24	112.03	49.099			
18,000.00	13,108.00	21,131.00	12,692.23	83.63	125.44	-80.358	-527.50	2,195.50	5,589.68	5,478.36	111.32	50.212			
18,100.00	13,108.00	21,131.00	12,692.23	85.00	125.44	-80.358	-527.50	2,195.50	5,679.46	5,568.82	110.64	51.333			
18,200.00	13,108.00	21,131.00	12,692.23	86.38	125.44	-80.358	-527.50	2,195.50	5,769.56	5,659.59	109.98	52.461			
18,300.00	13,108.00	21,131.00	12,692.23	87.76	125.44	-80.358	-527.50	2,195.50	5,859.99	5,750.66	109.34	53.596			
18,400.00	13,108.00	21,131.00	12,692.23	89.14	125.44	-80.358	-527.50	2,195.50	5,950.73	5,842.01	108.72	54.736			
18,500.00	13,108.00	21,131.00	12,692.23	90.52	125.44	-80.358	-527.50	2,195.50	6,041.76	5,933.64	108.12	55.883			
18,600.00	13,108.00	21,131.00	12,692.23	91.90	125.44	-80.358	-527.50	2,195.50	6,133.06	6,025.53	107.53	57.034			
18,700.00	13,108.00	21,131.00	12,692.23	93.29	125.44	-80.358	-527.50	2,195.50	6,224.64	6,117.67	106.97	58.191			
18,800.00	13,108.00	21,131.00	12,692.23	94.68	125.44	-80.358	-527.50	2,195.50	6,316.47	6,210.04	106.42	59.352			
18,900.00	13,108.00	21,131.00	12,692.23	96.06	125.44	-80.358	-527.50	2,195.50	6,408.54	6,302.65	105.90	60.518			
19,000.00	13,108.00	21,131.00	12,692.23	97.46	125.44	-80.358	-527.50	2,195.50	6,500.85	6,395.47	105.38	61.687			
19,100.00	13,108.00	21,131.00	12,692.23	98.85	125.44	-80.358	-527.50	2,195.50	6,593.39	6,488.50	104.89	62.861			

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 434H - OH / 67733 - Surveys (H&P 474)													Offset Site Error:	0.00 usft
Survey Program:		174-MWD+HRGM					Rule Assigned:				Offset Well Error:	1.00 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,200.00	13,108.00	21,131.00	12,692.23	100.24	125.44	-80.358	-527.50	2,195.50	6,686.13	6,581.72	104.41	64.037		
19,300.00	13,108.00	21,131.00	12,692.23	101.64	125.44	-80.358	-527.50	2,195.50	6,779.09	6,675.14	103.95	65.217		
19,400.00	13,108.00	21,131.00	12,692.23	103.03	125.44	-80.358	-527.50	2,195.50	6,872.24	6,768.74	103.50	66.400		
19,500.00	13,108.00	21,131.00	12,692.23	104.43	125.44	-80.358	-527.50	2,195.50	6,965.58	6,862.52	103.06	67.585		
19,600.00	13,108.00	21,131.00	12,692.23	105.83	125.44	-80.358	-527.50	2,195.50	7,059.11	6,956.46	102.64	68.773		
19,700.00	13,108.00	21,131.00	12,692.23	107.23	125.44	-80.358	-527.50	2,195.50	7,152.81	7,050.57	102.24	69.963		
19,800.00	13,108.00	21,131.00	12,692.23	108.63	125.44	-80.358	-527.50	2,195.50	7,246.68	7,144.83	101.84	71.155		
19,900.00	13,108.00	21,131.00	12,692.23	110.03	125.44	-80.358	-527.50	2,195.50	7,340.71	7,239.24	101.46	72.348		
20,000.00	13,108.00	21,131.00	12,692.23	111.43	125.44	-80.358	-527.50	2,195.50	7,434.89	7,333.79	101.10	73.543		
20,100.00	13,108.00	21,131.00	12,692.23	112.84	125.44	-80.358	-527.50	2,195.50	7,529.23	7,428.49	100.74	74.738		
20,200.00	13,108.00	21,131.00	12,692.23	114.24	125.44	-80.358	-527.50	2,195.50	7,623.71	7,523.31	100.40	75.935		
20,300.00	13,108.00	21,131.00	12,692.23	115.65	125.44	-80.358	-527.50	2,195.50	7,718.33	7,618.26	100.07	77.133		
20,400.00	13,108.00	21,131.00	12,692.23	117.05	125.44	-80.358	-527.50	2,195.50	7,813.08	7,713.33	99.74	78.331		
20,500.00	13,108.00	21,131.00	12,692.23	118.46	125.44	-80.358	-527.50	2,195.50	7,907.96	7,808.53	99.43	79.529		
20,600.00	13,108.00	21,131.00	12,692.23	119.87	125.44	-80.358	-527.50	2,195.50	8,002.97	7,903.83	99.14	80.728		
20,700.00	13,108.00	21,131.00	12,692.23	121.28	125.44	-80.358	-527.50	2,195.50	8,098.10	7,999.25	98.85	81.926		
20,800.00	13,108.00	21,131.00	12,692.23	122.68	125.44	-80.358	-527.50	2,195.50	8,193.34	8,094.77	98.57	83.125		
20,900.00	13,108.00	21,131.00	12,692.23	124.09	125.44	-80.358	-527.50	2,195.50	8,288.70	8,190.40	98.30	84.323		
21,000.00	13,108.00	21,131.00	12,692.23	125.51	125.44	-80.358	-527.50	2,195.50	8,384.16	8,286.12	98.04	85.520		
21,100.00	13,108.00	21,131.00	12,692.23	126.92	125.44	-80.358	-527.50	2,195.50	8,479.73	8,381.94	97.79	86.717		
21,200.00	13,108.00	21,131.00	12,692.23	128.33	125.44	-80.358	-527.50	2,195.50	8,575.40	8,477.85	97.54	87.913		
21,300.00	13,108.00	21,131.00	12,692.23	129.74	125.44	-80.358	-527.50	2,195.50	8,671.16	8,573.85	97.31	89.108		
21,400.00	13,108.00	21,131.00	12,692.23	131.15	125.44	-80.358	-527.50	2,195.50	8,767.03	8,669.94	97.09	90.302		
21,500.00	13,108.00	21,131.00	12,692.23	132.57	125.44	-80.358	-527.50	2,195.50	8,862.98	8,766.11	96.87	91.494		
21,600.00	13,108.00	21,131.00	12,692.23	133.98	125.44	-80.358	-527.50	2,195.50	8,959.02	8,862.36	96.66	92.686		
21,700.00	13,108.00	21,131.00	12,692.23	135.39	125.44	-80.358	-527.50	2,195.50	9,055.15	8,958.69	96.46	93.875		
21,800.00	13,108.00	21,131.00	12,692.23	136.81	125.44	-80.358	-527.50	2,195.50	9,151.36	9,055.09	96.27	95.063		
21,900.00	13,108.00	21,131.00	12,692.23	138.22	125.44	-80.358	-527.50	2,195.50	9,247.65	9,151.57	96.08	96.250		
22,000.00	13,108.00	21,131.00	12,692.23	139.64	125.44	-80.358	-527.50	2,195.50	9,344.02	9,248.12	95.90	97.434		
22,100.00	13,108.00	21,131.00	12,692.23	141.06	125.44	-80.358	-527.50	2,195.50	9,440.46	9,344.73	95.73	98.617		
22,200.00	13,108.00	21,131.00	12,692.23	142.47	125.44	-80.358	-527.50	2,195.50	9,536.98	9,441.41	95.56	99.797		
22,300.00	13,108.00	21,131.00	12,692.23	143.89	125.44	-80.358	-527.50	2,195.50	9,633.57	9,538.16	95.41	100.975		
22,400.00	13,108.00	21,131.00	12,692.23	145.31	125.44	-80.358	-527.50	2,195.50	9,730.22	9,634.97	95.25	102.151		
22,500.00	13,108.00	21,131.00	12,692.23	146.72	125.44	-80.358	-527.50	2,195.50	9,826.95	9,731.84	95.11	103.325		
22,600.00	13,108.00	21,131.00	12,692.23	148.14	125.44	-80.358	-527.50	2,195.50	9,923.74	9,828.77	94.97	104.496		
22,700.00	13,108.00	21,131.00	12,692.23	149.56	125.44	-80.358	-527.50	2,195.50	10,020.59	9,925.76	94.83	105.664		
22,800.00	13,108.00	21,131.00	12,692.23	150.98	125.44	-80.358	-527.50	2,195.50	10,117.50	10,022.80	94.71	106.830		
22,900.00	13,108.00	21,131.00	12,692.23	152.40	125.44	-80.358	-527.50	2,195.50	10,214.48	10,119.89	94.58	107.993		
23,000.00	13,108.00	21,131.00	12,692.23	153.82	125.44	-80.358	-527.50	2,195.50	10,311.51	10,217.04	94.47	109.153		
23,100.00	13,108.00	21,131.00	12,692.23	155.24	125.44	-80.358	-527.50	2,195.50	10,408.59	10,314.24	94.36	110.310		
23,200.00	13,108.00	21,131.00	12,692.23	156.66	125.44	-80.358	-527.50	2,195.50	10,505.74	10,411.48	94.25	111.465		
23,247.14	13,108.00	21,131.00	12,692.23	157.33	125.44	-80.358	-527.50	2,195.50	10,551.54	10,457.34	94.20	112.008		

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 514H - OH / 67734 - Surveys (H&P 474)														Offset Site Error: 0.00 usft
Survey Program: 174-MWD+HDGM+MS														Offset Well Error: 1.00 usft
Rule Assigned:														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	60.58	17.57	1.00	1.00	15.093	8,052.88	2,171.75	8,340.60					
100.00	100.00	201.38	158.35	1.08	1.05	15.113	8,051.49	2,174.45	8,340.15	8,338.02	2.13	3,914.574		
200.00	200.00	265.29	222.25	1.60	1.16	15.119	8,051.04	2,175.25	8,339.75	8,336.99	2.76	3,019.846		
300.00	300.00	353.13	310.09	2.01	1.35	15.123	8,050.77	2,175.67	8,339.58	8,336.22	3.36	2,481.615		
381.06	381.06	424.10	381.06	2.29	1.53	15.124	8,050.67	2,175.84	8,339.52	8,335.70	3.82	2,183.313		
400.00	400.00	438.69	395.65	2.35	1.57	15.124	8,050.66	2,175.88	8,339.52	8,335.59	3.93	2,124.472		
500.00	500.00	520.95	477.90	2.65	1.81	15.127	8,050.71	2,176.28	8,339.70	8,335.24	4.46	1,868.795		
600.00	600.00	629.26	586.21	2.93	2.14	15.130	8,050.83	2,176.87	8,339.96	8,334.90	5.06	1,647.608		
700.00	700.00	730.05	687.00	3.18	2.44	15.126	8,051.10	2,176.24	8,340.05	8,334.43	5.62	1,484.454		
800.00	800.00	814.63	771.57	3.41	2.70	15.117	8,051.63	2,175.12	8,340.31	8,334.19	6.11	1,364.038		
900.00	900.00	916.64	873.57	3.64	3.03	15.106	8,052.42	2,173.68	8,340.68	8,334.02	6.66	1,252.035		
1,000.00	1,000.00	1,047.34	1,004.25	3.85	3.46	15.094	8,053.08	2,171.96	8,340.84	8,333.53	7.30	1,142.432		
1,020.32	1,020.32	1,063.40	1,020.32	3.89	3.51	15.092	8,053.14	2,171.74	8,340.83	8,333.44	7.40	1,127.829		
1,100.00	1,100.00	1,136.00	1,092.91	4.05	3.75	15.085	8,053.45	2,170.73	8,340.87	8,333.07	7.80	1,069.514		
1,200.00	1,200.00	1,236.70	1,193.60	4.24	4.09	15.078	8,053.82	2,169.71	8,340.96	8,332.63	8.33	1,000.985		
1,300.00	1,300.00	1,339.49	1,296.39	4.43	4.44	15.073	8,054.04	2,169.12	8,341.02	8,332.15	8.87	940.342		
1,400.00	1,400.00	1,444.99	1,401.89	4.61	4.80	15.070	8,054.19	2,168.66	8,341.05	8,331.64	9.41	886.197		
1,500.00	1,500.00	1,551.52	1,508.39	4.78	5.17	15.086	8,053.51	2,170.84	8,340.96	8,331.01	9.95	838.317		
1,502.95	1,502.95	1,554.37	1,511.24	4.79	5.18	164.896	8,053.48	2,170.95	8,340.96	8,330.99	9.96	837.085		
1,600.00	1,599.98	1,651.53	1,608.28	4.99	5.51	164.923	8,052.18	2,175.40	8,342.55	8,332.07	10.48	796.006		
1,638.42	1,638.36	1,691.30	1,648.00	5.04	5.64	164.932	8,051.61	2,177.34	8,344.06	8,333.39	10.67	782.134		
1,700.00	1,699.87	1,759.17	1,715.78	5.10	5.88	164.962	8,050.59	2,180.73	8,346.83	8,335.87	10.96	761.431		
1,800.00	1,799.76	1,845.23	1,801.71	5.26	6.18	165.001	8,049.25	2,185.20	8,351.36	8,339.95	11.41	731.766		
1,900.00	1,899.64	1,927.17	1,883.53	5.44	6.46	165.040	8,048.12	2,189.61	8,356.12	8,344.24	11.88	703.526		
2,000.00	1,999.52	2,015.61	1,971.82	5.64	6.77	165.082	8,047.03	2,194.55	8,361.06	8,348.68	12.38	675.386		
2,100.00	2,099.41	2,105.46	2,061.52	5.84	7.08	165.125	8,045.97	2,199.70	8,366.11	8,353.21	12.90	648.524		
2,200.00	2,199.29	2,189.83	2,145.73	6.07	7.38	165.168	8,045.06	2,204.75	8,371.32	8,357.90	13.41	624.098		
2,300.00	2,299.17	2,272.06	2,227.80	6.30	7.67	165.209	8,044.30	2,209.81	8,376.73	8,362.80	13.93	601.357		
2,400.00	2,399.06	2,348.00	2,303.59	6.54	7.94	165.249	8,043.71	2,214.62	8,382.35	8,367.92	14.43	580.779		
2,500.00	2,498.94	2,428.67	2,384.08	6.79	8.23	165.291	8,043.23	2,219.95	8,388.23	8,373.27	14.96	560.645		
2,600.00	2,598.82	2,507.13	2,462.35	7.04	8.51	165.334	8,042.96	2,225.34	8,394.41	8,378.92	15.49	541.916		
2,700.00	2,698.71	2,592.33	2,547.34	7.31	8.81	165.381	8,042.81	2,231.32	8,400.80	8,384.75	16.05	523.415		
2,800.00	2,798.59	2,669.88	2,624.69	7.58	9.09	165.423	8,042.79	2,236.85	8,407.38	8,390.79	16.59	506.829		
2,900.00	2,898.47	2,939.37	2,893.64	7.85	10.06	165.559	8,041.05	2,253.66	8,413.13	8,395.30	17.83	471.905		
3,000.00	2,998.36	3,012.00	2,966.13	8.13	10.32	165.596	8,039.98	2,257.97	8,418.01	8,399.65	18.36	458.500		
3,100.00	3,098.24	3,089.79	3,043.76	8.41	10.60	165.636	8,038.98	2,262.88	8,423.18	8,404.27	18.92	445.311		
3,200.00	3,198.12	3,152.94	3,106.78	8.70	10.83	165.668	8,038.39	2,266.88	8,428.71	8,409.29	19.42	434.004		
3,300.00	3,298.01	3,202.00	3,155.75	8.99	11.01	165.692	8,038.22	2,269.78	8,434.72	8,414.84	19.88	424.332		
3,400.00	3,397.89	3,280.96	3,234.58	9.28	11.29	165.728	8,038.28	2,274.45	8,441.13	8,420.68	20.45	412.838		
3,500.00	3,497.77	3,352.90	3,306.37	9.58	11.55	165.763	8,038.57	2,278.95	8,447.91	8,426.92	20.99	402.420		
3,600.00	3,597.66	3,423.56	3,376.88	9.88	11.80	165.798	8,039.03	2,283.58	8,455.02	8,433.48	21.54	392.582		
3,700.00	3,697.54	3,486.00	3,439.17	10.18	12.03	165.831	8,039.58	2,287.95	8,462.50	8,440.45	22.05	383.735		
3,800.00	3,797.42	3,552.93	3,505.91	10.49	12.27	165.867	8,040.39	2,292.84	8,470.40	8,447.81	22.59	374.998		
3,900.00	3,897.31	3,617.62	3,570.41	10.79	12.51	165.901	8,041.45	2,297.68	8,478.73	8,455.62	23.12	366.789		
4,000.00	3,997.19	3,708.66	3,661.18	11.10	12.84	165.950	8,043.29	2,304.55	8,487.44	8,463.70	23.74	357.447		
4,100.00	4,097.07	3,844.05	3,796.25	11.41	13.33	166.014	8,045.80	2,313.49	8,495.71	8,471.17	24.54	346.193		
4,200.00	4,196.96	3,939.68	3,891.65	11.72	13.68	166.059	8,047.50	2,319.81	8,503.95	8,478.76	25.19	337.604		
4,300.00	4,296.84	4,037.54	3,989.26	12.03	14.03	166.108	8,049.17	2,326.64	8,512.24	8,486.39	25.85	329.310		
4,400.00	4,396.72	4,189.21	4,140.53	12.35	14.58	166.186	8,051.20	2,337.51	8,520.24	8,493.53	26.71	318.953		
4,500.00	4,496.61	4,298.60	4,249.64	12.66	14.98	166.242	8,052.28	2,345.07	8,527.83	8,500.41	27.42	311.008		
4,600.00	4,596.49	4,406.85	4,357.64	12.98	15.38	166.296	8,053.32	2,352.52	8,535.39	8,507.27	28.12	303.493		
4,700.00	4,696.37	4,495.57	4,446.14	13.29	15.70	166.340	8,054.12	2,358.59	8,542.91	8,514.15	28.76	297.087		

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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		
4,800.00	4,796.26	4,570.87	4,521.26	13.61	15.97	166.378	8,054.98	2,363.75	8,550.66	8,521.32	29.34	291.457		
4,900.00	4,896.14	5,007.35	4,956.73	13.93	17.57	166.599	8,053.50	2,392.61	8,558.02	8,526.75	31.27	273.702		
5,000.00	4,996.02	21,341.00	13,038.03	14.25	121.71	-119.592	-508.66	2,669.84	8,508.08	8,422.44	85.64	99.350		
5,100.00	5,095.91	21,341.00	13,038.03	14.57	121.71	-119.592	-508.66	2,669.84	8,414.34	8,328.38	85.96	97.888		
5,200.00	5,195.79	21,341.00	13,038.03	14.89	121.71	-119.592	-508.66	2,669.84	8,320.75	8,234.47	86.29	96.431		
5,300.00	5,295.67	21,341.00	13,038.03	15.21	121.71	-119.592	-508.66	2,669.84	8,227.32	8,140.69	86.62	94.978		
5,400.00	5,395.56	21,341.00	13,038.03	15.54	121.71	-119.592	-508.66	2,669.84	8,134.04	8,047.07	86.97	93.530		
5,500.00	5,495.44	21,341.00	13,038.03	15.86	121.71	-119.592	-508.66	2,669.84	8,040.92	7,953.60	87.32	92.087		
5,600.00	5,595.32	21,341.00	13,038.03	16.19	121.71	-119.592	-508.66	2,669.84	7,947.97	7,860.29	87.68	90.649		
5,700.00	5,695.21	21,341.00	13,038.03	16.51	121.71	-119.592	-508.66	2,669.84	7,855.19	7,767.14	88.05	89.216		
5,800.00	5,795.09	21,341.00	13,038.03	16.83	121.71	-119.592	-508.66	2,669.84	7,762.59	7,674.16	88.42	87.789		
5,900.00	5,894.97	21,341.00	13,038.03	17.16	121.71	-119.592	-508.66	2,669.84	7,670.17	7,581.36	88.81	86.368		
6,000.00	5,994.86	21,341.00	13,038.03	17.49	121.71	-119.592	-508.66	2,669.84	7,577.95	7,488.75	89.20	84.952		
6,100.00	6,094.74	21,341.00	13,038.03	17.81	121.71	-119.592	-508.66	2,669.84	7,485.93	7,396.32	89.61	83.542		
6,200.00	6,194.62	21,341.00	13,038.03	18.14	121.71	-119.592	-508.66	2,669.84	7,394.12	7,304.10	90.02	82.139		
6,300.00	6,294.51	21,341.00	13,038.03	18.47	121.71	-119.592	-508.66	2,669.84	7,302.52	7,212.07	90.44	80.742		
6,400.00	6,394.39	21,341.00	13,038.03	18.79	121.71	-119.592	-508.66	2,669.84	7,211.14	7,120.26	90.88	79.352		
6,500.00	6,494.27	21,341.00	13,038.03	19.12	121.71	-119.592	-508.66	2,669.84	7,120.00	7,028.68	91.32	77.969		
6,600.00	6,594.16	21,341.00	13,038.03	19.45	121.71	-119.592	-508.66	2,669.84	7,029.09	6,937.32	91.77	76.592		
6,700.00	6,694.04	21,341.00	13,038.03	19.78	121.71	-119.592	-508.66	2,669.84	6,938.44	6,846.20	92.24	75.223		
6,800.00	6,793.92	21,341.00	13,038.03	20.11	121.71	-119.592	-508.66	2,669.84	6,848.05	6,755.33	92.71	73.862		
6,900.00	6,893.81	21,341.00	13,038.03	20.44	121.71	-119.592	-508.66	2,669.84	6,757.92	6,664.72	93.20	72.508		
7,000.00	6,993.69	21,341.00	13,038.03	20.77	121.71	-119.592	-508.66	2,669.84	6,668.08	6,574.38	93.70	71.162		
7,100.00	7,093.57	21,341.00	13,038.03	21.10	121.71	-119.592	-508.66	2,669.84	6,578.53	6,484.32	94.22	69.825		
7,200.00	7,193.46	21,341.00	13,038.03	21.43	121.71	-119.592	-508.66	2,669.84	6,489.29	6,394.55	94.74	68.495		
7,300.00	7,293.34	21,341.00	13,038.03	21.76	121.71	-119.592	-508.66	2,669.84	6,400.37	6,305.09	95.28	67.175		
7,400.00	7,393.22	21,341.00	13,038.03	22.09	121.71	-119.592	-508.66	2,669.84	6,311.78	6,215.94	95.83	65.863		
7,500.00	7,493.11	21,341.00	13,038.03	22.42	121.71	-119.592	-508.66	2,669.84	6,223.53	6,127.13	96.40	64.560		
7,600.00	7,592.99	21,341.00	13,038.03	22.75	121.71	-119.592	-508.66	2,669.84	6,135.64	6,038.66	96.98	63.267		
7,700.00	7,692.87	21,341.00	13,038.03	23.08	121.71	-119.592	-508.66	2,669.84	6,048.13	5,950.56	97.58	61.984		
7,800.00	7,792.76	21,341.00	13,038.03	23.41	121.71	-119.592	-508.66	2,669.84	5,961.02	5,862.83	98.19	60.711		
7,900.00	7,892.64	21,341.00	13,038.03	23.74	121.71	-119.592	-508.66	2,669.84	5,874.31	5,775.49	98.81	59.448		
8,000.00	7,992.52	21,341.00	13,038.03	24.07	121.71	-119.592	-508.66	2,669.84	5,788.03	5,688.57	99.46	58.195		
8,100.00	8,092.41	21,341.00	13,038.03	24.40	121.71	-119.592	-508.66	2,669.84	5,702.20	5,602.08	100.12	56.954		
8,200.00	8,192.29	21,341.00	13,038.03	24.74	121.71	-119.592	-508.66	2,669.84	5,616.84	5,516.04	100.80	55.724		
8,300.00	8,292.17	21,341.00	13,038.03	25.07	121.71	-119.592	-508.66	2,669.84	5,531.97	5,430.48	101.49	54.506		
8,400.00	8,392.06	21,341.00	13,038.03	25.40	121.71	-119.592	-508.66	2,669.84	5,447.61	5,345.41	102.21	53.299		
8,500.00	8,491.94	21,341.00	13,038.03	25.73	121.71	-119.592	-508.66	2,669.84	5,363.79	5,260.85	102.94	52.105		
8,600.00	8,591.82	21,341.00	13,038.03	26.07	121.71	-119.592	-508.66	2,669.84	5,280.54	5,176.84	103.70	50.924		
8,700.00	8,691.71	21,341.00	13,038.03	26.40	121.71	-119.592	-508.66	2,669.84	5,197.87	5,093.41	104.47	49.756		
8,800.00	8,791.59	21,341.00	13,038.03	26.73	121.71	-119.592	-508.66	2,669.84	5,115.83	5,010.57	105.26	48.601		
8,900.00	8,891.47	21,341.00	13,038.03	27.06	121.71	-119.592	-508.66	2,669.84	5,034.43	4,928.35	106.08	47.460		
9,000.00	8,991.36	21,341.00	13,038.03	27.40	121.71	-119.592	-508.66	2,669.84	4,953.71	4,846.80	106.91	46.334		
9,100.00	9,091.24	21,341.00	13,038.03	27.73	121.71	-119.592	-508.66	2,669.84	4,873.71	4,765.94	107.77	45.223		
9,200.00	9,191.12	21,341.00	13,038.03	28.06	121.71	-119.592	-508.66	2,669.84	4,794.46	4,685.81	108.65	44.127		
9,300.00	9,291.01	21,341.00	13,038.03	28.40	121.71	-119.592	-508.66	2,669.84	4,716.00	4,606.45	109.55	43.048		
9,400.00	9,390.89	21,341.00	13,038.03	28.73	121.71	-119.592	-508.66	2,669.84	4,638.37	4,527.89	110.48	41.984		
9,500.00	9,490.77	21,341.00	13,038.03	29.06	121.71	-119.592	-508.66	2,669.84	4,561.61	4,450.18	111.43	40.938		
9,600.00	9,590.66	21,341.00	13,038.03	29.40	121.71	-119.592	-508.66	2,669.84	4,485.76	4,373.36	112.40	39.909		
9,700.00	9,690.54	21,341.00	13,038.03	29.73	121.71	-119.592	-508.66	2,669.84	4,410.88	4,297.49	113.40	38.898		
9,800.00	9,790.42	21,341.00	13,038.03	30.06	121.71	-119.592	-508.66	2,669.84	4,337.01	4,222.60	114.42	37.906		
9,900.00	9,890.31	21,341.00	13,038.03	30.40	121.71	-119.592	-508.66	2,669.84	4,264.21	4,148.75	115.46	36.933		

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: Cattlemen Fed Com - Deep - Cattleman Fed Com 514H - OH / 67734 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 174-MWD+HDGM+MS												Offset Well Error:	1.00 usft
Rule Assigned:												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	
10,000.00	9,990.19	21,341.00	13,038.03	30.73	121.71	-119.592	-508.66	2,669.84	4,192.53	4,076.00	116.52	35.980	
10,100.00	10,090.07	21,341.00	13,038.03	31.07	121.71	-119.592	-508.66	2,669.84	4,122.02	4,004.41	117.61	35.048	
10,200.00	10,189.96	21,341.00	13,038.03	31.40	121.71	-119.592	-508.66	2,669.84	4,052.76	3,934.04	118.72	34.137	
10,300.00	10,289.84	21,341.00	13,038.03	31.74	121.71	-119.592	-508.66	2,669.84	3,984.80	3,864.95	119.85	33.248	
10,400.00	10,389.72	21,341.00	13,038.03	32.07	121.71	-119.592	-508.66	2,669.84	3,918.22	3,797.22	121.00	32.382	
10,500.00	10,489.60	21,341.00	13,038.03	32.40	121.71	-119.592	-508.66	2,669.84	3,853.08	3,730.92	122.17	31.539	
10,600.00	10,589.49	21,341.00	13,038.03	32.74	121.71	-119.592	-508.66	2,669.84	3,789.47	3,666.11	123.36	30.720	
10,700.00	10,689.37	21,341.00	13,038.03	33.07	121.71	-119.592	-508.66	2,669.84	3,727.45	3,602.89	124.56	29.926	
10,800.00	10,789.25	21,341.00	13,038.03	33.41	121.71	-119.592	-508.66	2,669.84	3,667.10	3,541.34	125.77	29.158	
10,900.00	10,889.14	21,341.00	13,038.03	33.74	121.71	-119.592	-508.66	2,669.84	3,608.52	3,481.53	126.99	28.415	
11,000.00	10,989.02	21,341.00	13,038.03	34.08	121.71	-119.592	-508.66	2,669.84	3,551.80	3,423.57	128.22	27.700	
11,100.00	11,088.90	21,341.00	13,038.03	34.41	121.71	-119.592	-508.66	2,669.84	3,497.01	3,367.55	129.46	27.013	
11,200.00	11,188.79	21,341.00	13,038.03	34.75	121.71	-119.592	-508.66	2,669.84	3,444.25	3,313.56	130.69	26.355	
11,300.00	11,288.67	21,341.00	13,038.03	35.08	121.71	-119.592	-508.66	2,669.84	3,393.62	3,261.70	131.92	25.725	
11,400.00	11,388.55	21,341.00	13,038.03	35.42	121.71	-119.592	-508.66	2,669.84	3,345.21	3,212.07	133.14	25.126	
11,500.00	11,488.44	21,341.00	13,038.03	35.75	121.71	-119.592	-508.66	2,669.84	3,299.13	3,164.78	134.34	24.557	
11,600.00	11,588.32	21,341.00	13,038.03	36.09	121.71	-119.592	-508.66	2,669.84	3,255.46	3,119.93	135.53	24.020	
11,700.00	11,688.20	21,341.00	13,038.03	36.42	121.71	-119.592	-508.66	2,669.84	3,214.32	3,077.62	136.69	23.515	
11,800.00	11,788.09	21,341.00	13,038.03	36.76	121.71	-119.592	-508.66	2,669.84	3,175.79	3,037.96	137.82	23.042	
11,900.00	11,887.97	21,341.00	13,038.03	37.09	121.71	-119.592	-508.66	2,669.84	3,139.97	3,001.05	138.92	22.602	
11,908.72	11,896.68	21,341.00	13,038.03	37.12	121.71	-119.592	-508.66	2,669.84	3,136.98	2,997.97	139.02	22.566	
12,000.00	11,987.91	21,341.00	13,038.03	37.41	121.71	-119.024	-508.66	2,669.84	3,106.29	2,966.34	139.95	22.195	
12,047.14	12,035.04	21,341.00	13,038.03	37.47	121.71	91.453	-508.66	2,669.84	3,090.85	2,950.49	140.36	22.020	
12,100.00	12,087.91	21,341.00	13,038.03	37.47	121.71	91.453	-508.66	2,669.84	3,074.10	2,933.33	140.77	21.838	
12,200.00	12,187.91	21,341.00	13,038.03	37.48	121.71	91.453	-508.66	2,669.84	3,044.68	2,903.17	141.51	21.516	
12,300.00	12,287.91	21,341.00	13,038.03	37.48	121.71	91.453	-508.66	2,669.84	3,018.29	2,876.11	142.18	21.228	
12,400.00	12,387.91	21,341.00	13,038.03	37.49	121.71	91.453	-508.66	2,669.84	2,995.00	2,852.21	142.79	20.975	
12,500.00	12,487.91	21,341.00	13,038.03	37.50	121.71	91.453	-508.66	2,669.84	2,974.90	2,831.58	143.32	20.757	
12,547.14	12,535.04	21,341.00	13,038.03	37.49	121.71	91.453	-508.66	2,669.84	2,966.54	2,823.01	143.54	20.668	
12,550.00	12,537.91	21,341.00	13,038.03	37.50	121.71	-88.021	-508.66	2,669.84	2,966.06	2,822.51	143.55	20.662	
12,600.00	12,587.83	21,341.00	13,038.03	37.64	121.71	-88.840	-508.66	2,669.84	2,957.96	2,814.16	143.81	20.569	
12,650.00	12,637.36	21,341.00	13,038.03	37.90	121.71	-89.584	-508.66	2,669.84	2,950.61	2,806.50	144.11	20.475	
12,700.00	12,686.10	21,341.00	13,038.03	38.17	121.71	-90.245	-508.66	2,669.84	2,944.05	2,799.61	144.44	20.382	
12,750.00	12,733.70	21,341.00	13,038.03	38.46	121.71	-90.819	-508.66	2,669.84	2,938.35	2,793.54	144.81	20.291	
12,800.00	12,779.78	21,341.00	13,038.03	38.75	121.71	-91.301	-508.66	2,669.84	2,933.55	2,788.33	145.22	20.201	
12,850.00	12,824.00	21,341.00	13,038.03	39.03	121.71	-91.688	-508.66	2,669.84	2,929.69	2,784.04	145.65	20.114	
12,900.00	12,866.02	21,341.00	13,038.03	39.31	121.71	-91.976	-508.66	2,669.84	2,926.82	2,780.70	146.12	20.030	
12,950.00	12,905.52	21,341.00	13,038.03	39.57	121.71	-92.164	-508.66	2,669.84	2,924.94	2,778.33	146.61	19.951	
13,000.00	12,942.21	21,341.00	13,038.03	39.82	121.71	-92.250	-508.66	2,669.84	2,924.08	2,776.96	147.12	19.876	
13,016.87	12,953.90	21,341.00	13,038.03	39.90	121.71	-92.256	-508.66	2,669.84	2,924.02	2,776.73	147.30	19.851 CC	
13,050.00	12,975.79	21,341.00	13,038.03	40.06	121.71	-92.233	-508.66	2,669.84	2,924.25	2,776.60	147.64	19.806 ES	
13,100.00	13,006.02	21,341.00	13,038.03	40.27	121.71	-92.114	-508.66	2,669.84	2,925.44	2,777.26	148.18	19.743	
13,150.00	13,032.66	21,341.00	13,038.03	40.46	121.71	-91.894	-508.66	2,669.84	2,927.64	2,778.92	148.72	19.685	
13,200.00	13,055.52	21,341.00	13,038.03	40.63	121.71	-91.573	-508.66	2,669.84	2,930.84	2,781.58	149.26	19.635	
13,250.00	13,074.42	21,341.00	13,038.03	40.77	121.71	-91.155	-508.66	2,669.84	2,935.01	2,785.21	149.80	19.593	
13,300.00	13,089.21	21,341.00	13,038.03	40.89	121.71	-90.643	-508.66	2,669.84	2,940.11	2,789.78	150.32	19.558	
13,350.00	13,099.79	21,341.00	13,038.03	40.99	121.71	-90.040	-508.66	2,669.84	2,946.09	2,795.26	150.83	19.532	
13,400.00	13,106.06	21,341.00	13,038.03	41.06	121.71	-89.351	-508.66	2,669.84	2,952.91	2,801.59	151.32	19.514	
13,447.14	13,108.00	21,341.00	13,038.03	41.11	121.71	-88.628	-508.66	2,669.84	2,960.06	2,808.31	151.76	19.505	
13,500.00	13,108.00	21,341.00	13,038.03	41.15	121.71	-88.628	-508.66	2,669.84	2,968.90	2,816.69	152.21	19.505 SF	
13,600.00	13,108.00	21,341.00	13,038.03	41.25	121.71	-88.628	-508.66	2,669.84	2,988.12	2,835.13	152.99	19.531	
13,700.00	13,108.00	21,341.00	13,038.03	41.37	121.71	-88.628	-508.66	2,669.84	3,010.54	2,856.88	153.65	19.593	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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		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	13,108.00	21,341.00	13,038.03	41.51	121.71	-88.628	-508.66	2,669.84	3,036.08	2,881.89	154.19	19.690		
13,900.00	13,108.00	21,341.00	13,038.03	41.67	121.71	-88.628	-508.66	2,669.84	3,064.68	2,910.07	154.61	19.822		
14,000.00	13,108.00	21,341.00	13,038.03	41.87	121.71	-88.628	-508.66	2,669.84	3,096.24	2,941.33	154.92	19.986		
14,100.00	13,108.00	21,341.00	13,038.03	42.10	121.71	-88.628	-508.66	2,669.84	3,130.69	2,975.57	155.11	20.183		
14,200.00	13,108.00	21,341.00	13,038.03	42.37	121.71	-88.628	-508.66	2,669.84	3,167.91	3,012.71	155.21	20.411		
14,300.00	13,108.00	21,341.00	13,038.03	42.69	121.71	-88.628	-508.66	2,669.84	3,207.82	3,052.62	155.20	20.669		
14,400.00	13,108.00	21,341.00	13,038.03	43.06	121.71	-88.628	-508.66	2,669.84	3,250.32	3,095.22	155.10	20.956		
14,500.00	13,108.00	21,341.00	13,038.03	43.48	121.71	-88.628	-508.66	2,669.84	3,295.31	3,140.39	154.92	21.271		
14,600.00	13,108.00	21,341.00	13,038.03	43.97	121.71	-88.628	-508.66	2,669.84	3,342.68	3,188.02	154.66	21.613		
14,700.00	13,108.00	21,341.00	13,038.03	44.53	121.71	-88.628	-508.66	2,669.84	3,392.34	3,238.01	154.33	21.981		
14,800.00	13,108.00	21,341.00	13,038.03	45.16	121.71	-88.628	-508.66	2,669.84	3,444.19	3,290.25	153.94	22.373		
14,900.00	13,108.00	21,341.00	13,038.03	45.87	121.71	-88.628	-508.66	2,669.84	3,498.13	3,344.64	153.50	22.790		
15,000.00	13,108.00	21,341.00	13,038.03	46.64	121.71	-88.628	-508.66	2,669.84	3,554.07	3,401.07	153.00	23.229		
15,100.00	13,108.00	21,341.00	13,038.03	47.49	121.71	-88.628	-508.66	2,669.84	3,611.91	3,459.44	152.46	23.690		
15,200.00	13,108.00	21,341.00	13,038.03	48.39	121.71	-88.628	-508.66	2,669.84	3,671.56	3,519.67	151.89	24.172		
15,300.00	13,108.00	21,341.00	13,038.03	49.36	121.71	-88.628	-508.66	2,669.84	3,732.93	3,581.65	151.29	24.674		
15,400.00	13,108.00	21,341.00	13,038.03	50.38	121.71	-88.628	-508.66	2,669.84	3,795.95	3,645.30	150.66	25.196		
15,500.00	13,108.00	21,341.00	13,038.03	51.44	121.71	-88.628	-508.66	2,669.84	3,860.53	3,710.53	150.01	25.736		
15,600.00	13,108.00	21,341.00	13,038.03	52.54	121.71	-88.628	-508.66	2,669.84	3,926.60	3,777.26	149.34	26.293		
15,700.00	13,108.00	21,341.00	13,038.03	53.67	121.71	-88.628	-508.66	2,669.84	3,994.08	3,845.42	148.66	26.867		
15,800.00	13,108.00	21,341.00	13,038.03	54.84	121.71	-88.628	-508.66	2,669.84	4,062.90	3,914.92	147.97	27.457		
15,900.00	13,108.00	21,341.00	13,038.03	56.02	121.71	-88.628	-508.66	2,669.84	4,132.99	3,985.71	147.28	28.062		
16,000.00	13,108.00	21,341.00	13,038.03	57.24	121.71	-88.628	-508.66	2,669.84	4,204.29	4,057.71	146.58	28.682		
16,100.00	13,108.00	21,341.00	13,038.03	58.47	121.71	-88.628	-508.66	2,669.84	4,276.74	4,130.86	145.89	29.316		
16,200.00	13,108.00	21,341.00	13,038.03	59.71	121.71	-88.628	-508.66	2,669.84	4,350.29	4,205.10	145.19	29.963		
16,300.00	13,108.00	21,341.00	13,038.03	60.97	121.71	-88.628	-508.66	2,669.84	4,424.87	4,280.37	144.50	30.622		
16,400.00	13,108.00	21,341.00	13,038.03	62.25	121.71	-88.628	-508.66	2,669.84	4,500.44	4,356.63	143.81	31.294		
16,500.00	13,108.00	21,341.00	13,038.03	63.53	121.71	-88.628	-508.66	2,669.84	4,576.94	4,433.81	143.13	31.977		
16,600.00	13,108.00	21,341.00	13,038.03	64.83	121.71	-88.628	-508.66	2,669.84	4,654.34	4,511.88	142.46	32.671		
16,700.00	13,108.00	21,341.00	13,038.03	66.13	121.71	-88.628	-508.66	2,669.84	4,732.58	4,590.78	141.80	33.375		
16,800.00	13,108.00	21,341.00	13,038.03	67.45	121.71	-88.628	-508.66	2,669.84	4,811.63	4,670.48	141.15	34.089		
16,900.00	13,108.00	21,341.00	13,038.03	68.77	121.71	-88.628	-508.66	2,669.84	4,891.45	4,750.94	140.51	34.813		
17,000.00	13,108.00	21,341.00	13,038.03	70.10	121.71	-88.628	-508.66	2,669.84	4,971.99	4,832.12	139.88	35.545		
17,100.00	13,108.00	21,341.00	13,038.03	71.43	121.71	-88.628	-508.66	2,669.84	5,053.24	4,913.98	139.26	36.286		
17,200.00	13,108.00	21,341.00	13,038.03	72.77	121.71	-88.628	-508.66	2,669.84	5,135.14	4,996.48	138.66	37.035		
17,300.00	13,108.00	21,341.00	13,038.03	74.11	121.71	-88.628	-508.66	2,669.84	5,217.68	5,079.61	138.07	37.791		
17,400.00	13,108.00	21,341.00	13,038.03	75.46	121.71	-88.628	-508.66	2,669.84	5,300.81	5,163.32	137.49	38.555		
17,500.00	13,108.00	21,341.00	13,038.03	76.81	121.71	-88.628	-508.66	2,669.84	5,384.52	5,247.60	136.92	39.325		
17,600.00	13,108.00	21,341.00	13,038.03	78.17	121.71	-88.628	-508.66	2,669.84	5,468.78	5,332.41	136.37	40.102		
17,700.00	13,108.00	21,341.00	13,038.03	79.53	121.71	-88.628	-508.66	2,669.84	5,553.56	5,417.72	135.83	40.885		
17,800.00	13,108.00	21,341.00	13,038.03	80.89	121.71	-88.628	-508.66	2,669.84	5,638.84	5,503.53	135.31	41.674		
17,900.00	13,108.00	21,341.00	13,038.03	82.26	121.71	-88.628	-508.66	2,669.84	5,724.59	5,589.79	134.80	42.468		
18,000.00	13,108.00	21,341.00	13,038.03	83.63	121.71	-88.628	-508.66	2,669.84	5,810.80	5,676.50	134.30	43.267		
18,100.00	13,108.00	21,341.00	13,038.03	85.00	121.71	-88.628	-508.66	2,669.84	5,897.45	5,763.63	133.82	44.071		
18,200.00	13,108.00	21,341.00	13,038.03	86.38	121.71	-88.628	-508.66	2,669.84	5,984.51	5,851.16	133.35	44.880		
18,300.00	13,108.00	21,341.00	13,038.03	87.76	121.71	-88.628	-508.66	2,669.84	6,071.97	5,939.08	132.89	45.692		
18,400.00	13,108.00	21,341.00	13,038.03	89.14	121.71	-88.628	-508.66	2,669.84	6,159.81	6,027.37	132.44	46.509		
18,500.00	13,108.00	21,341.00	13,038.03	90.52	121.71	-88.628	-508.66	2,669.84	6,248.02	6,116.01	132.01	47.330		
18,600.00	13,108.00	21,341.00	13,038.03	91.90	121.71	-88.628	-508.66	2,669.84	6,336.58	6,204.99	131.59	48.154		
18,700.00	13,108.00	21,341.00	13,038.03	93.29	121.71	-88.628	-508.66	2,669.84	6,425.47	6,294.29	131.18	48.982		
18,800.00	13,108.00	21,341.00	13,038.03	94.68	121.71	-88.628	-508.66	2,669.84	6,514.69	6,383.90	130.78	49.813		
18,900.00	13,108.00	21,341.00	13,038.03	96.06	121.71	-88.628	-508.66	2,669.84	6,604.21	6,473.81	130.40	50.646		

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,000.00	13,108.00	21,341.00	13,038.03	97.46	121.71	-88.628	-508.66	2,669.84	6,694.03	6,564.01	130.03	51.482		
19,100.00	13,108.00	21,341.00	13,038.03	98.85	121.71	-88.628	-508.66	2,669.84	6,784.14	6,654.48	129.66	52.321		
19,200.00	13,108.00	21,341.00	13,038.03	100.24	121.71	-88.628	-508.66	2,669.84	6,874.52	6,745.21	129.31	53.162		
19,300.00	13,108.00	21,341.00	13,038.03	101.64	121.71	-88.628	-508.66	2,669.84	6,965.16	6,836.19	128.97	54.005		
19,400.00	13,108.00	21,341.00	13,038.03	103.03	121.71	-88.628	-508.66	2,669.84	7,056.06	6,927.41	128.64	54.850		
19,500.00	13,108.00	21,341.00	13,038.03	104.43	121.71	-88.628	-508.66	2,669.84	7,147.20	7,018.87	128.32	55.697		
19,600.00	13,108.00	21,341.00	13,038.03	105.83	121.71	-88.628	-508.66	2,669.84	7,238.57	7,110.56	128.01	56.545		
19,700.00	13,108.00	21,341.00	13,038.03	107.23	121.71	-88.628	-508.66	2,669.84	7,330.17	7,202.45	127.71	57.395		
19,800.00	13,108.00	21,341.00	13,038.03	108.63	121.71	-88.628	-508.66	2,669.84	7,421.98	7,294.56	127.42	58.247		
19,900.00	13,108.00	21,341.00	13,038.03	110.03	121.71	-88.628	-508.66	2,669.84	7,514.01	7,386.86	127.14	59.099		
20,000.00	13,108.00	21,341.00	13,038.03	111.43	121.71	-88.628	-508.66	2,669.84	7,606.23	7,479.36	126.87	59.953		
20,100.00	13,108.00	21,341.00	13,038.03	112.84	121.71	-88.628	-508.66	2,669.84	7,698.65	7,572.04	126.61	60.807		
20,200.00	13,108.00	21,341.00	13,038.03	114.24	121.71	-88.628	-508.66	2,669.84	7,791.26	7,664.90	126.35	61.662		
20,300.00	13,108.00	21,341.00	13,038.03	115.65	121.71	-88.628	-508.66	2,669.84	7,884.04	7,757.94	126.11	62.518		
20,400.00	13,108.00	21,341.00	13,038.03	117.05	121.71	-88.628	-508.66	2,669.84	7,977.01	7,851.14	125.87	63.375		
20,500.00	13,108.00	21,341.00	13,038.03	118.46	121.71	-88.628	-508.66	2,669.84	8,070.14	7,944.49	125.64	64.232		
20,600.00	13,108.00	21,341.00	13,038.03	119.87	121.71	-88.628	-508.66	2,669.84	8,163.43	8,038.01	125.42	65.089		
20,700.00	13,108.00	21,341.00	13,038.03	121.28	121.71	-88.628	-508.66	2,669.84	8,256.88	8,131.67	125.20	65.947		
20,800.00	13,108.00	21,341.00	13,038.03	122.68	121.71	-88.628	-508.66	2,669.84	8,350.48	8,225.48	125.00	66.805		
20,900.00	13,108.00	21,341.00	13,038.03	124.09	121.71	-88.628	-508.66	2,669.84	8,444.23	8,319.43	124.80	67.663		
21,000.00	13,108.00	21,341.00	13,038.03	125.51	121.71	-88.628	-508.66	2,669.84	8,538.12	8,413.51	124.61	68.521		
21,100.00	13,108.00	21,341.00	13,038.03	126.92	121.71	-88.628	-508.66	2,669.84	8,632.14	8,507.72	124.42	69.378		
21,200.00	13,108.00	21,341.00	13,038.03	128.33	121.71	-88.628	-508.66	2,669.84	8,726.30	8,602.06	124.24	70.236		
21,300.00	13,108.00	21,341.00	13,038.03	129.74	121.71	-88.628	-508.66	2,669.84	8,820.59	8,696.52	124.07	71.093		
21,400.00	13,108.00	21,341.00	13,038.03	131.15	121.71	-88.628	-508.66	2,669.84	8,915.00	8,791.10	123.90	71.950		
21,500.00	13,108.00	21,341.00	13,038.03	132.57	121.71	-88.628	-508.66	2,669.84	9,009.54	8,885.79	123.75	72.807		
21,600.00	13,108.00	21,341.00	13,038.03	133.98	121.71	-88.628	-508.66	2,669.84	9,104.19	8,980.59	123.59	73.663		
21,700.00	13,108.00	21,341.00	13,038.03	135.39	121.71	-88.628	-508.66	2,669.84	9,198.95	9,075.51	123.45	74.519		
21,800.00	13,108.00	21,341.00	13,038.03	136.81	121.71	-88.628	-508.66	2,669.84	9,293.82	9,170.52	123.30	75.374		
21,900.00	13,108.00	21,341.00	13,038.03	138.22	121.71	-88.628	-508.66	2,669.84	9,388.80	9,265.64	123.17	76.228		
22,000.00	13,108.00	21,341.00	13,038.03	139.64	121.71	-88.628	-508.66	2,669.84	9,483.89	9,360.85	123.04	77.081		
22,100.00	13,108.00	21,341.00	13,038.03	141.06	121.71	-88.628	-508.66	2,669.84	9,579.07	9,456.16	122.91	77.934		
22,200.00	13,108.00	21,341.00	13,038.03	142.47	121.71	-88.628	-508.66	2,669.84	9,674.35	9,551.56	122.79	78.786		
22,300.00	13,108.00	21,341.00	13,038.03	143.89	121.71	-88.628	-508.66	2,669.84	9,769.72	9,647.04	122.68	79.637		
22,400.00	13,108.00	21,341.00	13,038.03	145.31	121.71	-88.628	-508.66	2,669.84	9,865.19	9,742.62	122.57	80.487		
22,500.00	13,108.00	21,341.00	13,038.03	146.72	121.71	-88.628	-508.66	2,669.84	9,960.74	9,838.28	122.46	81.336		
22,600.00	13,108.00	21,341.00	13,038.03	148.14	121.71	-88.628	-508.66	2,669.84	10,056.39	9,934.02	122.37	82.183		
22,700.00	13,108.00	21,341.00	13,038.03	149.56	121.71	-88.628	-508.66	2,669.84	10,152.11	10,029.84	122.27	83.030		
22,800.00	13,108.00	21,341.00	13,038.03	150.98	121.71	-88.628	-508.66	2,669.84	10,247.92	10,125.74	122.18	83.876		
22,900.00	13,108.00	21,341.00	13,038.03	152.40	121.71	-88.628	-508.66	2,669.84	10,343.80	10,221.71	122.09	84.720		
23,000.00	13,108.00	21,341.00	13,038.03	153.82	121.71	-88.628	-508.66	2,669.84	10,439.77	10,317.76	122.01	85.563		
23,100.00	13,108.00	21,341.00	13,038.03	155.24	121.71	-88.628	-508.66	2,669.84	10,535.81	10,413.87	121.94	86.405		
23,200.00	13,108.00	21,341.00	13,038.03	156.66	121.71	-88.628	-508.66	2,669.84	10,631.92	10,510.06	121.86	87.246		
23,247.14	13,108.00	21,341.00	13,038.03	157.33	121.71	-88.628	-508.66	2,669.84	10,677.25	10,555.42	121.83	87.641		

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 214H - OH / 68221 - Surveys (H&P 474)													Offset Site Error: 0.00 usft
Survey Program: 179-MWD+HDGM													Offset Well Error: 1.00 usft
Reference	Offset	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)			
0.00	0.00	0.00	2.00	1.00	1.00	90.122	-5.32	2,492.33	2,492.34				
100.00	100.00	109.14	111.14	1.08	1.01	90.122	-5.32	2,492.09	2,492.12	2,490.02	2.10	1,187.868	
200.00	200.00	216.72	218.71	1.60	1.08	90.122	-5.32	2,491.40	2,491.47	2,488.80	2.68	930.038	
300.00	300.00	319.58	321.57	2.01	1.27	90.125	-5.43	2,490.59	2,490.69	2,487.42	3.28	760.256	
400.00	400.00	425.20	427.19	2.35	1.53	90.130	-5.65	2,489.51	2,489.66	2,485.78	3.88	641.506	
500.00	500.00	519.65	521.64	2.65	1.80	90.136	-5.92	2,488.53	2,488.64	2,484.18	4.45	558.994	
600.00	600.00	616.28	618.26	2.93	2.10	90.145	-6.28	2,487.83	2,487.91	2,482.89	5.02	495.498	
700.00	700.00	715.77	717.75	3.18	2.41	90.150	-6.53	2,487.07	2,487.14	2,481.55	5.59	444.820	
800.00	800.00	808.47	810.44	3.41	2.72	90.160	-6.95	2,486.52	2,486.55	2,480.42	6.13	405.552	
900.00	900.00	904.93	906.91	3.64	3.04	90.167	-7.25	2,486.23	2,486.25	2,479.57	6.68	372.463	
1,000.00	1,000.00	1,002.33	1,004.30	3.85	3.37	90.177	-7.67	2,485.99	2,486.01	2,478.79	7.21	344.612	
1,100.00	1,100.00	1,111.83	1,113.80	4.05	3.74	90.188	-8.16	2,485.67	2,485.72	2,477.94	7.79	319.146	
1,200.00	1,200.00	1,198.83	1,200.80	4.24	4.04	90.205	-8.91	2,485.34	2,485.36	2,477.08	8.28	300.220	
1,204.60	1,204.60	1,202.64	1,204.60	4.25	4.05	90.206	-8.95	2,485.34	2,485.35	2,477.05	8.30	299.440	
1,300.00	1,300.00	1,285.06	1,287.02	4.43	4.33	90.232	-10.08	2,485.59	2,485.65	2,476.89	8.76	283.819	
1,400.00	1,400.00	1,383.27	1,385.21	4.61	4.67	90.274	-11.89	2,486.21	2,486.28	2,477.01	9.27	268.167	
1,500.00	1,500.00	1,500.56	1,502.48	4.78	5.07	90.316	-13.72	2,486.58	2,486.61	2,476.76	9.85	252.435	
1,514.92	1,514.92	1,519.45	1,521.37	4.81	5.13	-119.871	-13.92	2,486.54	2,486.61	2,476.67	9.94	250.199	
1,600.00	1,599.98	1,636.95	1,638.86	4.99	5.55	-119.904	-14.46	2,485.49	2,486.71	2,476.23	10.48	237.389	
1,638.42	1,638.36	1,686.78	1,688.69	5.04	5.72	-119.946	-14.35	2,484.60	2,486.82	2,476.15	10.67	233.066	
1,700.00	1,699.87	1,766.73	1,768.61	5.10	6.00	-120.033	-13.90	2,482.69	2,486.83	2,475.84	10.99	226.314	
1,800.00	1,799.76	1,905.22	1,907.02	5.26	6.48	-120.181	-13.26	2,477.86	2,485.79	2,474.19	11.60	214.380	
1,900.00	1,899.64	2,004.19	2,005.89	5.44	6.83	-120.289	-12.70	2,473.56	2,483.87	2,471.78	12.09	205.508	
2,000.00	1,999.52	2,108.34	2,109.94	5.64	7.19	-120.406	-11.99	2,469.01	2,481.94	2,469.34	12.60	196.990	
2,100.00	2,099.41	2,212.56	2,214.05	5.84	7.56	-120.523	-11.27	2,464.36	2,479.92	2,466.81	13.12	189.067	
2,200.00	2,199.29	2,352.19	2,353.48	6.07	8.06	-120.661	-11.18	2,456.84	2,477.01	2,463.25	13.76	180.042	
2,300.00	2,299.17	2,454.57	2,455.64	6.30	8.43	-120.741	-12.02	2,450.21	2,472.99	2,458.71	14.28	173.196	
2,400.00	2,399.06	2,550.47	2,551.35	6.54	8.77	-120.818	-12.75	2,444.27	2,469.24	2,454.46	14.78	167.058	
2,500.00	2,498.94	2,647.81	2,648.50	6.79	9.12	-120.896	-13.48	2,438.31	2,465.59	2,450.30	15.29	161.248	
2,600.00	2,598.82	2,738.94	2,739.47	7.04	9.45	-120.968	-14.23	2,432.93	2,462.16	2,446.37	15.78	156.007	
2,700.00	2,698.71	2,829.05	2,829.45	7.31	9.78	-121.040	-14.96	2,427.97	2,459.13	2,442.85	16.27	151.118	
2,800.00	2,798.59	2,924.98	2,925.25	7.58	10.12	-121.118	-15.66	2,422.99	2,456.42	2,439.63	16.79	146.342	
2,900.00	2,898.47	3,035.22	3,035.32	7.85	10.52	-121.202	-16.71	2,417.16	2,453.61	2,436.26	17.35	141.424	
3,000.00	2,998.36	3,133.88	3,133.82	8.13	10.88	-121.265	-18.20	2,411.67	2,450.52	2,432.65	17.88	137.085	
3,100.00	3,098.24	3,226.69	3,226.49	8.41	11.22	-121.320	-19.74	2,406.70	2,447.64	2,429.25	18.38	133.136	
3,200.00	3,198.12	3,314.70	3,314.37	8.70	11.54	-121.371	-21.27	2,402.32	2,445.14	2,426.26	18.88	129.524	
3,300.00	3,298.01	3,400.32	3,399.89	8.99	11.85	-121.419	-22.84	2,398.52	2,443.18	2,423.82	19.36	126.170	
3,400.00	3,397.89	3,478.89	3,478.39	9.28	12.13	-121.465	-24.21	2,395.58	2,441.93	2,422.10	19.83	123.166	
3,500.00	3,497.77	3,565.31	3,564.77	9.58	12.44	-121.519	-25.52	2,393.11	2,441.55	2,421.23	20.32	120.175	
3,600.00	3,597.66	3,661.59	3,661.01	9.88	12.79	-121.593	-26.40	2,390.54	2,441.39	2,420.54	20.84	117.128	
3,629.31	3,626.93	3,689.33	3,688.74	9.97	12.89	-121.612	-26.74	2,389.84	2,441.38	2,420.38	21.00	116.273	
3,700.00	3,697.54	3,756.88	3,756.26	10.18	13.13	-121.652	-27.83	2,388.20	2,441.42	2,420.06	21.37	114.255	
3,800.00	3,797.42	3,860.97	3,860.30	10.49	13.50	-121.708	-29.80	2,385.74	2,441.55	2,419.62	21.93	111.358	
3,900.00	3,897.31	3,979.13	3,978.40	10.79	13.93	-121.779	-31.72	2,382.35	2,441.18	2,418.65	22.53	108.330	
4,000.00	3,997.19	4,075.86	4,075.07	11.10	14.28	-121.839	-33.25	2,379.19	2,440.42	2,417.35	23.07	105.788	
4,100.00	4,097.07	4,168.16	4,167.31	11.41	14.61	-121.894	-34.75	2,376.43	2,439.93	2,416.35	23.59	103.438	
4,163.00	4,160.00	4,223.19	4,222.32	11.60	14.81	-121.927	-35.66	2,374.95	2,439.82	2,415.92	23.90	102.065	
4,200.00	4,196.96	4,255.06	4,254.17	11.72	14.92	-121.945	-36.21	2,374.18	2,439.86	2,415.77	24.09	101.287	
4,300.00	4,296.84	4,369.10	4,368.15	12.03	15.33	-122.012	-38.11	2,371.36	2,439.91	2,415.22	24.69	98.829	
4,400.00	4,396.72	4,478.20	4,477.19	12.35	15.73	-122.083	-39.69	2,367.89	2,439.23	2,413.96	25.27	96.520	
4,473.35	4,469.99	4,533.64	4,532.60	12.58	15.93	-122.117	-40.56	2,366.29	2,438.97	2,413.35	25.61	95.229	
4,500.00	4,496.61	4,558.00	4,556.95	12.66	16.02	-122.131	-40.98	2,365.72	2,439.01	2,413.26	25.75	94.718	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,600.00	4,596.49	4,638.83	4,637.75	12.98	16.31	-122.172	-42.61	2,364.18	2,439.59	2,413.36	26.23	93.008	
4,700.00	4,696.37	4,763.13	4,761.98	13.29	16.75	-122.220	-45.72	2,361.48	2,439.88	2,413.01	26.87	90.808	
4,709.73	4,706.10	4,770.07	4,768.92	13.32	16.78	-122.223	-45.90	2,361.30	2,439.88	2,412.96	26.91	90.661	
4,800.00	4,796.26	4,842.00	4,840.81	13.61	17.03	-122.250	-47.73	2,359.94	2,440.37	2,413.03	27.34	89.252	
4,900.00	4,896.14	4,905.96	4,904.75	13.93	17.26	-122.273	-49.38	2,359.44	2,442.00	2,414.24	27.76	87.983	
5,000.00	4,996.02	5,022.36	5,021.10	14.25	17.66	-122.309	-52.61	2,359.16	2,444.29	2,415.93	28.36	86.183	
5,100.00	5,095.91	5,138.85	5,137.54	14.57	18.08	-122.355	-55.48	2,357.67	2,445.50	2,416.53	28.97	84.403	
5,200.00	5,195.79	5,254.89	5,253.53	14.89	18.49	-122.417	-57.62	2,355.18	2,445.85	2,416.26	29.59	82.660	
5,300.00	5,295.67	5,344.08	5,342.69	15.21	18.82	-122.464	-59.33	2,353.34	2,446.30	2,416.20	30.11	81.255	
5,400.00	5,395.56	5,652.88	5,650.79	15.54	19.94	-122.646	-64.84	2,336.22	2,444.49	2,413.13	31.36	77.949	
5,500.00	5,495.44	5,801.79	5,798.58	15.86	20.49	-122.728	-68.17	2,318.30	2,434.62	2,402.56	32.06	75.938	
5,600.00	5,595.32	5,887.34	5,883.48	16.19	20.81	-122.775	-70.13	2,308.01	2,425.09	2,392.51	32.58	74.429	
5,700.00	5,695.21	5,983.86	5,979.31	16.51	21.17	-122.824	-72.47	2,296.71	2,415.89	2,382.75	33.14	72.908	
5,800.00	5,795.09	6,083.56	6,078.29	16.83	21.55	-122.875	-74.89	2,285.07	2,406.71	2,373.01	33.70	71.417	
5,900.00	5,894.97	6,177.49	6,171.56	17.16	21.90	-122.918	-77.41	2,274.17	2,397.61	2,363.36	34.25	70.010	
6,000.00	5,994.86	6,285.84	6,279.17	17.49	22.31	-122.960	-80.61	2,261.92	2,388.81	2,353.97	34.84	68.574	
6,100.00	6,094.74	6,402.53	6,394.84	17.81	22.75	-122.963	-85.90	2,247.57	2,378.87	2,343.43	35.44	67.118	
6,200.00	6,194.62	6,496.86	6,488.34	18.14	23.12	-122.954	-90.63	2,235.96	2,368.95	2,332.96	35.99	65.822	
6,300.00	6,294.51	6,588.61	6,579.32	18.47	23.47	-122.947	-95.14	2,224.92	2,359.31	2,322.78	36.53	64.585	
6,400.00	6,394.39	6,685.01	6,674.93	18.79	23.83	-122.939	-99.90	2,213.59	2,349.95	2,312.86	37.08	63.369	
6,500.00	6,494.27	6,786.19	6,775.29	19.12	24.22	-122.930	-104.92	2,201.71	2,340.59	2,302.94	37.65	62.166	
6,600.00	6,594.16	6,885.22	6,873.50	19.45	24.60	-122.924	-109.73	2,190.03	2,331.19	2,292.97	38.21	61.006	
6,700.00	6,694.04	6,979.21	6,966.74	19.78	24.96	-122.917	-114.34	2,179.06	2,321.91	2,283.15	38.76	59.905	
6,800.00	6,793.92	7,068.86	7,055.70	20.11	25.31	-122.909	-118.75	2,168.90	2,312.97	2,273.67	39.30	58.861	
6,900.00	6,893.81	7,158.46	7,144.67	20.44	25.65	-122.905	-123.01	2,159.14	2,304.47	2,264.64	39.83	57.856	
7,000.00	6,993.69	7,295.69	7,280.90	20.77	26.18	-122.930	-128.28	2,143.63	2,295.69	2,255.19	40.50	56.677	
7,100.00	7,093.57	7,396.48	7,380.88	21.10	26.56	-122.983	-130.83	2,131.11	2,285.77	2,244.69	41.08	55.643	
7,200.00	7,193.46	7,484.61	7,468.32	21.43	26.90	-123.032	-133.00	2,120.33	2,276.06	2,234.44	41.62	54.686	
7,300.00	7,293.34	7,566.00	7,549.13	21.76	27.21	-123.078	-134.90	2,110.77	2,266.85	2,224.71	42.14	53.791	
7,400.00	7,393.22	7,660.00	7,642.52	22.09	27.57	-123.140	-136.82	2,100.29	2,258.24	2,215.54	42.70	52.885	
7,500.00	7,493.11	7,797.93	7,779.44	22.42	28.10	-123.209	-140.51	2,084.00	2,248.92	2,205.53	43.38	51.838	
7,600.00	7,592.99	7,888.82	7,869.52	22.75	28.45	-123.226	-144.09	2,072.49	2,238.72	2,194.79	43.93	50.960	
7,700.00	7,692.87	7,958.98	7,939.16	23.08	28.72	-123.238	-146.88	2,064.43	2,229.67	2,185.25	44.42	50.196	
7,800.00	7,792.76	8,039.00	8,018.70	23.41	29.03	-123.255	-149.90	2,056.20	2,221.80	2,176.87	44.93	49.447	
7,900.00	7,892.64	8,160.56	8,139.47	23.74	29.50	-123.268	-154.96	2,043.42	2,213.70	2,168.13	45.57	48.581	
8,000.00	7,992.52	8,245.65	8,223.98	24.07	29.83	-123.269	-158.84	2,034.31	2,205.42	2,159.32	46.09	47.845	
8,100.00	8,092.41	8,323.00	8,300.92	24.40	30.12	-123.279	-161.96	2,026.94	2,198.27	2,151.67	46.60	47.175	
8,200.00	8,192.29	8,481.95	8,458.80	24.74	30.73	-123.327	-167.48	2,009.48	2,189.56	2,142.21	47.35	46.244	
8,300.00	8,292.17	8,559.76	8,536.04	25.07	31.03	-123.359	-169.92	2,000.33	2,180.33	2,132.47	47.86	45.554	
8,400.00	8,392.06	8,630.52	8,606.39	25.40	31.31	-123.391	-171.94	1,993.04	2,172.51	2,124.15	48.35	44.931	
8,500.00	8,491.94	8,709.75	8,685.25	25.73	31.61	-123.435	-173.88	1,985.69	2,165.76	2,116.90	48.87	44.320	
8,600.00	8,591.82	8,796.00	8,771.18	26.07	31.93	-123.491	-175.65	1,978.44	2,159.89	2,110.48	49.40	43.720	
8,700.00	8,691.71	8,877.69	8,852.61	26.40	32.24	-123.550	-177.10	1,972.15	2,154.74	2,104.82	49.92	43.162	
8,800.00	8,791.59	8,971.72	8,946.38	26.73	32.59	-123.620	-178.62	1,965.36	2,150.10	2,099.61	50.49	42.589	
8,900.00	8,891.47	9,060.48	9,034.92	27.06	32.92	-123.689	-179.97	1,959.24	2,145.80	2,094.77	51.03	42.050	
9,000.00	8,991.36	9,139.63	9,113.92	27.40	33.21	-123.755	-181.00	1,954.34	2,142.23	2,090.69	51.54	41.566	
9,100.00	9,091.24	9,219.89	9,194.06	27.73	33.50	-123.825	-181.88	1,950.20	2,139.69	2,087.64	52.05	41.109	
9,200.00	9,191.12	9,302.22	9,276.31	28.06	33.80	-123.903	-182.49	1,946.60	2,137.97	2,085.40	52.57	40.671	
9,300.00	9,291.01	9,363.00	9,337.05	28.40	34.02	-123.965	-182.76	1,944.39	2,137.24	2,084.24	52.99	40.330	
9,311.65	9,302.64	9,383.74	9,357.78	28.44	34.09	-123.986	-182.83	1,943.78	2,137.15	2,084.06	53.10	40.249 CC, ES	
9,400.00	9,390.89	9,433.48	9,407.52	28.73	34.26	-124.037	-183.00	1,942.95	2,138.06	2,084.61	53.45	40.003	
9,500.00	9,490.77	9,500.80	9,474.83	29.06	34.48	-124.102	-183.26	1,943.07	2,140.86	2,086.99	53.87	39.739	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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 (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,600.00	9,590.66	9,580.72	9,554.74	29.40	34.74	-124.176	-183.62	1,944.13	2,144.85	2,090.51	54.34	39.469	
9,700.00	9,690.54	9,671.32	9,645.32	29.73	35.02	-124.255	-184.14	1,945.92	2,149.49	2,094.64	54.86	39.185	
9,800.00	9,790.42	9,773.75	9,747.73	30.06	35.35	-124.335	-185.08	1,948.18	2,154.35	2,098.93	55.42	38.873	
9,900.00	9,890.31	9,882.65	9,856.59	30.40	35.70	-124.397	-186.94	1,950.15	2,158.75	2,102.74	56.01	38.539	
10,000.00	9,990.19	10,019.90	9,993.81	30.73	36.15	-124.486	-188.94	1,951.69	2,162.61	2,105.87	56.74	38.115	
10,100.00	10,090.07	10,114.31	10,088.22	31.07	36.46	-124.605	-188.23	1,951.54	2,165.25	2,107.96	57.30	37.791	
10,200.00	10,189.96	10,213.78	10,187.68	31.40	36.79	-124.745	-186.88	1,951.52	2,168.09	2,110.21	57.87	37.462	
10,300.00	10,289.84	10,301.40	10,275.29	31.74	37.07	-124.863	-185.87	1,951.77	2,171.23	2,112.84	58.40	37.181	
10,400.00	10,389.72	10,404.37	10,378.26	32.07	37.40	-124.985	-185.24	1,952.38	2,174.63	2,115.65	58.98	36.871	
10,500.00	10,489.60	10,506.03	10,479.91	32.40	37.73	-125.075	-185.82	1,952.94	2,177.91	2,118.36	59.55	36.570	
10,600.00	10,589.49	10,588.82	10,561.95	32.74	38.01	-124.903	-195.50	1,954.42	2,181.49	2,121.51	59.99	36.366	
10,700.00	10,689.37	10,655.00	10,624.84	33.07	38.24	-124.435	-215.67	1,957.35	2,186.35	2,126.09	60.25	36.285	
10,800.00	10,789.25	10,857.52	10,789.14	33.41	38.88	-121.593	-330.66	1,962.30	2,187.17	2,126.80	60.38	36.225	
10,900.00	10,889.14	10,892.00	10,811.05	33.74	38.98	-120.921	-357.25	1,963.26	2,191.51	2,131.08	60.43	36.267	
11,000.00	10,989.02	10,948.85	10,842.62	34.08	39.15	-119.720	-404.46	1,965.22	2,199.17	2,138.80	60.38	36.424	
11,100.00	11,088.90	11,063.63	10,892.07	34.41	39.52	-117.077	-507.88	1,966.01	2,209.02	2,148.90	60.13	36.739	
11,200.00	11,188.79	11,132.76	10,915.63	34.75	39.77	-115.413	-572.82	1,964.35	2,221.74	2,161.78	59.96	37.052	
11,300.00	11,288.67	11,176.97	10,928.57	35.08	39.94	-114.329	-615.05	1,962.57	2,237.96	2,178.12	59.84	37.400	
11,400.00	11,388.55	11,193.28	10,932.93	35.42	40.01	-113.926	-630.76	1,961.85	2,258.06	2,198.31	59.75	37.790	
11,500.00	11,488.44	11,208.13	10,936.56	35.75	40.07	-113.557	-645.14	1,961.20	2,282.17	2,222.52	59.65	38.262	
11,600.00	11,588.32	11,222.00	10,939.66	36.09	40.12	-113.210	-658.65	1,960.61	2,310.18	2,250.66	59.53	38.810	
11,700.00	11,688.20	11,222.00	10,939.66	36.42	40.12	-113.210	-658.65	1,960.61	2,342.06	2,282.64	59.42	39.416	
11,800.00	11,788.09	11,238.28	10,942.90	36.76	40.19	-112.801	-674.59	1,959.94	2,377.55	2,318.27	59.28	40.110	
11,900.00	11,887.97	11,245.49	10,944.19	37.09	40.22	-112.619	-681.67	1,959.66	2,416.62	2,357.47	59.15	40.856	
11,908.72	11,896.68	11,246.08	10,944.29	37.12	40.22	-112.604	-682.26	1,959.64	2,420.19	2,361.05	59.14	40.923	
12,000.00	11,987.91	11,251.59	10,945.22	37.41	40.24	-113.245	-687.68	1,959.44	2,458.58	2,399.58	59.01	41.666	
12,047.14	12,035.04	11,269.00	10,947.80	37.47	40.31	96.970	-704.89	1,958.84	2,479.23	2,420.35	58.88	42.109	
12,100.00	12,087.91	11,269.00	10,947.80	37.47	40.31	96.970	-704.89	1,958.84	2,502.86	2,444.13	58.74	42.611	
12,200.00	12,187.91	11,269.00	10,947.80	37.48	40.31	96.970	-704.89	1,958.84	2,549.97	2,491.47	58.50	43.586	
12,300.00	12,287.91	11,269.00	10,947.80	37.48	40.31	96.970	-704.89	1,958.84	2,600.07	2,541.78	58.30	44.601	
12,400.00	12,387.91	11,269.00	10,947.80	37.49	40.31	96.970	-704.89	1,958.84	2,653.00	2,594.88	58.11	45.651	
12,500.00	12,487.91	11,269.00	10,947.80	37.50	40.31	96.970	-704.89	1,958.84	2,708.58	2,650.62	57.96	46.732	
12,547.14	12,535.04	11,269.00	10,947.80	37.49	40.31	96.970	-704.89	1,958.84	2,735.66	2,677.77	57.89	47.256	
12,550.00	12,537.91	11,269.00	10,947.80	37.50	40.31	-82.253	-704.89	1,958.84	2,737.32	2,679.44	57.89	47.288	
12,600.00	12,587.83	11,269.00	10,947.80	37.64	40.31	-78.734	-704.89	1,958.84	2,766.37	2,708.53	57.84	47.828	
12,650.00	12,637.36	11,269.00	10,947.80	37.90	40.31	-75.275	-704.89	1,958.84	2,795.32	2,737.49	57.82	48.343	
12,700.00	12,686.10	11,269.00	10,947.80	38.17	40.31	-71.923	-704.89	1,958.84	2,823.96	2,766.13	57.83	48.833	
12,750.00	12,733.70	11,269.00	10,947.80	38.46	40.31	-68.720	-704.89	1,958.84	2,852.08	2,794.22	57.86	49.292	
12,800.00	12,779.78	11,288.97	10,950.12	38.75	40.39	-65.327	-724.71	1,958.28	2,879.15	2,821.23	57.91	49.715	
12,850.00	12,824.00	11,294.26	10,950.62	39.03	40.42	-62.455	-729.98	1,958.16	2,905.45	2,847.46	57.99	50.104	
12,900.00	12,866.02	11,316.00	10,952.16	39.31	40.50	-59.569	-751.66	1,957.79	2,930.83	2,872.75	58.08	50.458	
12,950.00	12,905.52	11,316.00	10,952.16	39.57	40.50	-57.278	-751.66	1,957.79	2,954.51	2,896.31	58.20	50.763	
13,000.00	12,942.21	11,316.00	10,952.16	39.82	40.50	-55.212	-751.66	1,957.79	2,976.77	2,918.43	58.34	51.024	
13,050.00	12,975.79	11,316.00	10,952.16	40.06	40.50	-53.366	-751.66	1,957.79	2,997.46	2,938.96	58.50	51.241	
13,100.00	13,006.02	11,352.45	10,953.75	40.27	40.66	-51.414	-788.07	1,957.27	3,016.08	2,957.40	58.68	51.403	
13,150.00	13,032.66	11,376.69	10,954.44	40.46	40.76	-49.861	-812.29	1,956.84	3,032.59	2,973.72	58.87	51.511	
13,200.00	13,055.52	11,405.80	10,954.92	40.63	40.89	-48.537	-841.40	1,956.26	3,046.82	2,987.72	59.09	51.561	
13,250.00	13,074.42	11,447.14	10,955.35	40.77	41.07	-47.411	-882.73	1,955.34	3,058.46	2,999.12	59.34	51.540	
13,300.00	13,089.21	11,490.00	10,955.61	40.89	41.27	-46.558	-925.57	1,954.30	3,067.36	3,007.75	59.61	51.454	
13,350.00	13,099.79	11,538.58	10,955.72	40.99	41.51	-45.960	-974.14	1,953.02	3,073.37	3,013.44	59.93	51.286	
13,400.00	13,106.06	11,585.00	10,955.71	41.06	41.74	-45.641	-1,020.54	1,951.67	3,076.37	3,016.12	60.26	51.055	
13,447.14	13,108.00	11,618.45	10,955.69	41.11	41.91	-45.592	-1,053.98	1,950.81	3,076.56	3,015.98	60.57	50.789	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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	Offset	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
13,500.00	13,108.00	11,653.60	10,955.71	41.15	42.10	-45.580	-1,089.12	1,950.23	3,075.53	3,014.64	60.89	50.507	
13,600.00	13,108.00	11,717.61	10,955.76	41.25	42.45	-45.569	-1,153.13	1,949.95	3,074.45	3,012.95	61.50	49.994	
13,639.62	13,108.00	11,742.37	10,955.69	41.29	42.59	-45.566	-1,177.88	1,950.04	3,074.35	3,012.60	61.75	49.785	
13,700.00	13,108.00	11,822.50	10,955.57	41.37	43.06	-45.565	-1,258.01	1,950.86	3,074.51	3,012.24	62.26	49.378	
13,800.00	13,108.00	11,988.63	10,961.49	41.51	44.13	-45.653	-1,424.01	1,953.22	3,072.00	3,008.61	63.39	48.464	
13,900.00	13,108.00	12,057.00	10,964.62	41.67	44.59	-45.704	-1,492.29	1,954.66	3,069.63	3,005.42	64.21	47.803	
14,000.00	13,108.00	12,152.00	10,968.43	41.87	45.27	-45.774	-1,587.18	1,957.05	3,067.91	3,002.69	65.22	47.037	
14,100.00	13,108.00	12,227.13	10,971.00	42.10	45.82	-45.826	-1,662.24	1,959.14	3,066.78	3,000.60	66.19	46.335	
14,200.00	13,108.00	12,311.16	10,973.28	42.37	46.47	-45.877	-1,746.21	1,961.61	3,066.28	2,999.04	67.24	45.601	
14,251.57	13,108.00	12,354.72	10,974.20	42.53	46.81	-45.900	-1,789.73	1,962.86	3,066.21	2,998.40	67.81	45.219	
14,300.00	13,108.00	12,394.33	10,974.86	42.69	47.12	-45.919	-1,829.32	1,963.97	3,066.28	2,997.94	68.34	44.871	
14,400.00	13,108.00	12,469.58	10,975.48	43.06	47.73	-45.943	-1,904.55	1,965.98	3,066.92	2,997.50	69.42	44.182	
14,500.00	13,108.00	12,531.00	10,974.86	43.48	48.24	-45.944	-1,965.95	1,967.33	3,068.54	2,998.11	70.43	43.571	
14,600.00	13,108.00	12,609.71	10,972.97	43.97	48.91	-45.931	-2,044.61	1,969.06	3,071.11	2,999.53	71.58	42.904	
14,700.00	13,108.00	12,772.26	10,970.96	44.53	50.34	-45.932	-2,207.10	1,972.81	3,072.76	2,999.35	73.41	41.859	
14,800.00	13,108.00	12,858.08	10,970.73	45.16	51.12	-45.944	-2,292.89	1,974.89	3,073.96	2,999.24	74.72	41.138	
14,900.00	13,108.00	12,942.69	10,970.27	45.87	51.91	-45.959	-2,377.47	1,977.35	3,075.71	2,999.64	76.07	40.434	
15,000.00	13,108.00	13,109.67	10,968.76	46.64	53.51	-45.962	-2,544.40	1,980.85	3,077.48	2,999.32	78.16	39.373	
15,005.38	13,108.00	13,073.84	10,969.05	46.69	53.16	-45.965	-2,508.57	1,980.38	3,077.40	2,999.51	77.88	39.513	
15,100.00	13,108.00	13,174.60	10,967.91	47.49	54.15	-45.947	-2,609.31	1,981.21	3,077.98	2,998.59	79.40	38.767	
15,200.00	13,108.00	13,244.66	10,966.27	48.39	54.86	-45.922	-2,679.35	1,981.68	3,079.39	2,998.70	80.69	38.163	
15,300.00	13,108.00	13,431.72	10,964.66	49.36	56.77	-45.910	-2,866.35	1,984.26	3,080.58	2,997.42	83.16	37.043	
15,400.00	13,108.00	13,547.80	10,968.73	50.38	58.00	-45.988	-2,982.31	1,987.26	3,079.27	2,994.20	85.06	36.200	
15,500.00	13,108.00	13,641.42	10,971.77	51.44	59.00	-46.044	-3,075.86	1,989.35	3,077.89	2,991.14	86.75	35.479	
15,600.00	13,108.00	13,737.43	10,974.28	52.54	60.04	-46.089	-3,171.82	1,991.22	3,076.75	2,988.26	88.49	34.770	
15,700.00	13,108.00	13,825.58	10,976.15	53.67	61.01	-46.122	-3,259.93	1,992.74	3,075.80	2,985.65	90.16	34.117	
15,800.00	13,108.00	13,919.01	10,977.27	54.84	62.04	-46.142	-3,353.35	1,994.03	3,075.25	2,983.36	91.89	33.466	
15,896.58	13,108.00	14,000.17	10,977.78	55.98	62.95	-46.150	-3,434.50	1,994.95	3,074.93	2,981.46	93.48	32.896	
15,900.00	13,108.00	14,002.81	10,977.77	56.02	62.98	-46.150	-3,437.14	1,994.97	3,074.93	2,981.41	93.53	32.877	
16,000.00	13,108.00	14,084.56	10,976.71	57.24	63.90	-46.128	-3,518.88	1,995.20	3,075.30	2,980.16	95.13	32.326	
16,100.00	13,108.00	14,168.69	10,974.51	58.47	64.86	-46.084	-3,602.98	1,994.90	3,076.14	2,979.38	96.76	31.792	
16,200.00	13,108.00	14,348.85	10,971.04	59.71	66.95	-46.007	-3,783.08	1,994.35	3,076.98	2,977.46	99.52	30.918	
16,300.00	13,108.00	14,433.84	10,971.43	60.97	67.94	-45.998	-3,868.08	1,994.15	3,075.77	2,974.54	101.23	30.383	
16,400.00	13,108.00	14,529.72	10,971.35	62.25	69.06	-45.981	-3,963.96	1,993.83	3,074.86	2,971.78	103.08	29.830	
16,500.00	13,108.00	14,624.87	10,970.58	63.53	70.19	-45.947	-4,059.09	1,992.98	3,074.06	2,969.15	104.92	29.299	
16,600.00	13,108.00	14,707.00	10,969.11	64.83	71.17	-45.903	-4,141.21	1,991.94	3,073.68	2,967.08	106.60	28.835	
16,603.21	13,108.00	14,707.00	10,969.11	64.87	71.17	-45.903	-4,141.21	1,991.94	3,073.68	2,967.06	106.62	28.829	
16,700.00	13,108.00	14,783.69	10,966.91	66.13	72.09	-45.850	-4,217.86	1,990.88	3,073.96	2,965.76	108.20	28.410	
16,800.00	13,108.00	14,859.75	10,963.90	67.45	73.01	-45.786	-4,293.84	1,989.82	3,075.00	2,965.22	109.79	28.009	
16,900.00	13,108.00	15,008.91	10,957.37	68.77	74.83	-45.644	-4,442.84	1,987.08	3,076.21	2,963.95	112.27	27.401	
16,901.96	13,108.00	14,975.59	10,958.71	68.79	74.42	-45.676	-4,409.56	1,987.84	3,076.21	2,964.34	111.87	27.498	
17,000.00	13,108.00	15,102.56	10,953.75	70.10	75.97	-45.555	-4,536.39	1,984.88	3,076.50	2,962.42	114.08	26.968	
17,100.00	13,108.00	15,238.48	10,951.51	71.43	77.65	-45.474	-4,672.26	1,982.32	3,075.46	2,958.99	116.47	26.405	
17,200.00	13,108.00	15,322.59	10,950.13	72.77	78.69	-45.424	-4,756.35	1,980.76	3,074.58	2,956.36	118.22	26.008	
17,288.62	13,108.00	15,393.04	10,948.35	73.96	79.57	-45.373	-4,826.77	1,979.40	3,074.30	2,954.60	119.71	25.682	
17,300.00	13,108.00	15,401.73	10,948.08	74.11	79.68	-45.366	-4,835.45	1,979.23	3,074.31	2,954.42	119.89	25.642	
17,400.00	13,108.00	15,500.03	10,944.70	75.46	80.90	-45.285	-4,933.68	1,977.43	3,074.71	2,952.91	121.81	25.243	
17,500.00	13,108.00	15,617.35	10,942.24	76.81	82.38	-45.211	-5,050.95	1,975.46	3,074.22	2,950.23	124.00	24.793	
17,572.99	13,108.00	15,677.62	10,940.99	77.80	83.14	-45.176	-5,111.20	1,974.62	3,074.06	2,948.79	125.27	24.539	
17,600.00	13,108.00	15,698.86	10,940.47	78.17	83.41	-45.163	-5,132.43	1,974.35	3,074.08	2,948.35	125.73	24.450	
17,700.00	13,108.00	15,773.03	10,938.41	79.53	84.35	-45.116	-5,206.57	1,973.61	3,074.65	2,947.29	127.36	24.142	
17,800.00	13,108.00	15,842.00	10,936.58	80.89	85.22	-45.088	-5,275.51	1,974.02	3,076.21	2,947.28	128.93	23.859	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 214H - OH / 68221 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 179-MWD+HDGM												Offset Well Error:	1.00 usft
Reference												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	
17,900.00	13,108.00	15,919.05	10,934.41	82.26	86.21	-45.066	-5,352.53	1,975.30	3,078.66	2,948.03	130.63	23.568	
18,000.00	13,108.00	16,003.94	10,931.55	83.63	87.30	-45.039	-5,437.35	1,976.96	3,081.71	2,949.26	132.44	23.269	
18,100.00	13,108.00	16,089.06	10,928.31	85.00	88.39	-45.009	-5,522.39	1,978.79	3,085.21	2,950.96	134.25	22.981	
18,200.00	13,108.00	16,185.03	10,923.92	86.38	89.63	-44.963	-5,618.24	1,980.65	3,089.11	2,952.90	136.21	22.678	
18,300.00	13,108.00	16,278.63	10,919.21	87.76	90.84	-44.908	-5,711.71	1,982.06	3,093.04	2,954.91	138.13	22.393	
18,400.00	13,108.00	16,451.45	10,911.54	89.14	93.09	-44.808	-5,884.34	1,983.86	3,096.40	2,955.18	141.21	21.927	
18,500.00	13,108.00	16,580.79	10,909.24	90.52	94.77	-44.774	-6,013.65	1,984.83	3,097.43	2,953.71	143.71	21.553	
18,600.00	13,108.00	16,677.34	10,908.71	91.90	96.03	-44.775	-6,110.19	1,986.38	3,098.24	2,952.47	145.78	21.253	
18,700.00	13,108.00	16,758.70	10,907.95	93.29	97.10	-44.772	-6,191.54	1,987.78	3,099.41	2,951.80	147.61	20.998	
18,800.00	13,108.00	16,832.55	10,906.76	94.68	98.07	-44.767	-6,265.35	1,989.30	3,101.31	2,951.99	149.32	20.770	
18,900.00	13,108.00	16,949.11	10,904.03	96.06	99.61	-44.743	-6,381.87	1,991.30	3,103.49	2,951.82	151.67	20.462	
19,000.00	13,108.00	17,108.13	10,901.95	97.46	101.71	-44.710	-6,540.86	1,992.50	3,104.18	2,949.52	154.65	20.072	
19,100.00	13,108.00	17,251.18	10,905.21	98.85	103.61	-44.768	-6,683.85	1,995.09	3,103.01	2,945.49	157.52	19.699	
19,200.00	13,108.00	17,351.92	10,908.42	100.24	104.95	-44.824	-6,784.51	1,997.19	3,101.51	2,941.74	159.77	19.412	
19,300.00	13,108.00	17,443.79	10,910.99	101.64	106.18	-44.868	-6,876.33	1,998.92	3,100.14	2,938.26	161.88	19.151	
19,400.00	13,108.00	17,551.98	10,913.73	103.03	107.62	-44.912	-6,984.47	2,000.62	3,098.75	2,934.52	164.23	18.868	
19,500.00	13,108.00	17,637.00	10,915.74	104.43	108.76	-44.944	-7,069.46	2,001.93	3,097.46	2,931.23	166.23	18.634	
19,600.00	13,108.00	17,732.00	10,917.51	105.83	110.04	-44.973	-7,164.43	2,003.33	3,096.48	2,928.11	168.37	18.391	
19,700.00	13,108.00	17,816.86	10,918.13	107.23	111.17	-44.980	-7,249.28	2,004.06	3,095.87	2,925.54	170.33	18.176	
19,777.61	13,108.00	17,883.21	10,917.83	108.31	112.06	-44.970	-7,315.64	2,004.26	3,095.73	2,923.90	171.83	18.016	
19,800.00	13,108.00	17,902.40	10,917.66	108.63	112.32	-44.965	-7,334.82	2,004.30	3,095.74	2,923.48	172.26	17.972	
19,900.00	13,108.00	17,997.43	10,916.46	110.03	113.60	-44.938	-7,429.85	2,004.34	3,095.95	2,921.64	174.31	17.761	
20,000.00	13,108.00	18,091.76	10,915.18	111.43	114.87	-44.910	-7,524.17	2,004.47	3,096.30	2,919.95	176.35	17.557	
20,100.00	13,108.00	18,185.63	10,914.13	112.84	116.13	-44.892	-7,618.03	2,005.09	3,096.85	2,918.44	178.41	17.358	
20,200.00	13,108.00	18,265.03	10,912.81	114.24	117.21	-44.871	-7,697.41	2,005.59	3,097.78	2,917.55	180.23	17.188	
20,300.00	13,108.00	18,370.24	10,910.36	115.65	118.63	-44.835	-7,802.59	2,006.33	3,099.22	2,916.79	182.43	16.988	
20,400.00	13,108.00	18,463.97	10,909.32	117.05	119.90	-44.827	-7,896.31	2,007.72	3,100.36	2,915.85	184.51	16.803	
20,500.00	13,108.00	18,601.56	10,908.68	118.46	121.77	-44.835	-8,033.87	2,010.33	3,101.40	2,914.08	187.32	16.557	
20,600.00	13,108.00	18,751.23	10,911.69	119.87	123.81	-44.887	-8,183.48	2,012.82	3,100.30	2,909.92	190.38	16.285	
20,700.00	13,108.00	18,808.00	10,913.10	121.28	124.58	-44.909	-8,240.23	2,013.62	3,099.13	2,907.17	191.96	16.145	
20,702.25	13,108.00	18,808.00	10,913.10	121.31	124.58	-44.909	-8,240.23	2,013.62	3,099.13	2,907.15	191.98	16.143	
20,800.00	13,108.00	18,808.00	10,913.10	122.68	124.58	-44.909	-8,240.23	2,013.62	3,100.67	2,908.16	192.52	16.106	
20,900.00	13,108.00	18,808.00	10,913.10	124.09	124.58	-44.909	-8,240.23	2,013.62	3,105.43	2,912.53	192.90	16.098 SF	
21,000.00	13,108.00	18,808.00	10,913.10	125.51	124.58	-44.909	-8,240.23	2,013.62	3,113.40	2,920.27	193.13	16.121	
21,100.00	13,108.00	18,808.00	10,913.10	126.92	124.58	-44.909	-8,240.23	2,013.62	3,124.55	2,931.36	193.18	16.174	
21,200.00	13,108.00	18,808.00	10,913.10	128.33	124.58	-44.909	-8,240.23	2,013.62	3,138.85	2,945.76	193.08	16.256	
21,300.00	13,108.00	18,808.00	10,913.10	129.74	124.58	-44.909	-8,240.23	2,013.62	3,156.25	2,963.42	192.83	16.368	
21,400.00	13,108.00	18,808.00	10,913.10	131.15	124.58	-44.909	-8,240.23	2,013.62	3,176.71	2,984.28	192.42	16.509	
21,500.00	13,108.00	18,808.00	10,913.10	132.57	124.58	-44.909	-8,240.23	2,013.62	3,200.16	3,008.28	191.88	16.678	
21,600.00	13,108.00	18,808.00	10,913.10	133.98	124.58	-44.909	-8,240.23	2,013.62	3,226.54	3,035.34	191.20	16.875	
21,700.00	13,108.00	18,808.00	10,913.10	135.39	124.58	-44.909	-8,240.23	2,013.62	3,255.78	3,065.38	190.40	17.099	
21,800.00	13,108.00	18,808.00	10,913.10	136.81	124.58	-44.909	-8,240.23	2,013.62	3,287.80	3,098.32	189.49	17.351	
21,900.00	13,108.00	18,808.00	10,913.10	138.22	124.58	-44.909	-8,240.23	2,013.62	3,322.53	3,134.06	188.47	17.629	
22,000.00	13,108.00	18,808.00	10,913.10	139.64	124.58	-44.909	-8,240.23	2,013.62	3,359.87	3,172.51	187.36	17.933	
22,100.00	13,108.00	18,808.00	10,913.10	141.06	124.58	-44.909	-8,240.23	2,013.62	3,399.75	3,213.59	186.17	18.262	
22,200.00	13,108.00	18,808.00	10,913.10	142.47	124.58	-44.909	-8,240.23	2,013.62	3,442.07	3,257.17	184.90	18.616	
22,300.00	13,108.00	18,808.00	10,913.10	143.89	124.58	-44.909	-8,240.23	2,013.62	3,486.75	3,303.18	183.57	18.994	
22,400.00	13,108.00	18,808.00	10,913.10	145.31	124.58	-44.909	-8,240.23	2,013.62	3,533.69	3,351.51	182.18	19.396	
22,500.00	13,108.00	18,808.00	10,913.10	146.72	124.58	-44.909	-8,240.23	2,013.62	3,582.81	3,402.05	180.75	19.821	
22,600.00	13,108.00	18,808.00	10,913.10	148.14	124.58	-44.909	-8,240.23	2,013.62	3,634.01	3,454.72	179.29	20.269	
22,700.00	13,108.00	18,808.00	10,913.10	149.56	124.58	-44.909	-8,240.23	2,013.62	3,687.22	3,509.42	177.80	20.738	
22,800.00	13,108.00	18,808.00	10,913.10	150.98	124.58	-44.909	-8,240.23	2,013.62	3,742.35	3,566.06	176.28	21.229	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 214H - OH / 68221 - Surveys (H&P 474)														Offset Site Error:	0.00 usft
Survey Program: 179-MWD+HDGM														Offset Well Error:	1.00 usft
Reference		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			
22,900.00	13,108.00	18,808.00	10,913.10	152.40	124.58	-44.909	-8,240.23	2,013.62	3,799.30	3,624.55	174.76	21.740			
23,000.00	13,108.00	18,808.00	10,913.10	153.82	124.58	-44.909	-8,240.23	2,013.62	3,858.01	3,684.79	173.22	22.272			
23,100.00	13,108.00	18,808.00	10,913.10	155.24	124.58	-44.909	-8,240.23	2,013.62	3,918.39	3,746.71	171.69	22.823			
23,200.00	13,108.00	18,808.00	10,913.10	156.66	124.58	-44.909	-8,240.23	2,013.62	3,980.37	3,810.22	170.16	23.393			
23,247.14	13,108.00	18,808.00	10,913.10	157.33	124.58	-44.909	-8,240.23	2,013.62	4,010.12	3,840.68	169.44	23.668			



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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:													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	0.00	2.00	1.00	1.00	90.102	-4.59	2,582.34	2,582.35				
100.00	100.00	100.35	102.35	1.08	1.01	90.108	-4.85	2,582.30	2,582.30	2,580.21	2.10	1,232.141	
200.00	200.00	201.05	203.04	1.60	1.06	90.124	-5.61	2,582.17	2,582.18	2,579.51	2.66	970.435	
274.31	274.31	272.31	274.31	1.90	1.17	90.140	-6.32	2,582.12	2,582.13	2,579.06	3.07	840.104 CC	
300.00	300.00	296.96	298.95	2.01	1.22	90.146	-6.58	2,582.13	2,582.14	2,578.91	3.23	799.017	
400.00	400.00	388.54	390.52	2.35	1.44	90.170	-7.64	2,582.28	2,582.31	2,578.52	3.79	681.579	
500.00	500.00	480.86	482.83	2.65	1.69	90.192	-8.66	2,582.78	2,582.85	2,578.51	4.34	594.842	
600.00	600.00	584.63	586.61	2.93	2.00	90.211	-9.51	2,583.45	2,583.50	2,578.57	4.92	524.569	
700.00	700.00	684.64	686.60	3.18	2.31	90.232	-10.47	2,583.94	2,583.99	2,578.50	5.49	470.406	
800.00	800.00	774.42	776.39	3.41	2.61	90.245	-11.06	2,584.57	2,584.70	2,578.68	6.02	429.318	
900.00	900.00	880.20	882.15	3.64	2.96	90.266	-12.00	2,585.45	2,585.54	2,578.94	6.59	392.047	
1,000.00	1,000.00	993.08	995.02	3.85	3.34	90.290	-13.09	2,585.90	2,585.94	2,578.75	7.19	359.681	
1,100.00	1,100.00	1,092.75	1,094.70	4.05	3.69	90.310	-14.01	2,586.06	2,586.10	2,578.37	7.73	334.402	
1,200.00	1,200.00	1,185.45	1,187.39	4.24	4.01	90.332	-15.01	2,586.36	2,586.44	2,578.19	8.25	313.579 ES	
1,300.00	1,300.00	1,274.44	1,276.37	4.43	4.32	90.361	-16.28	2,586.95	2,587.11	2,578.37	8.74	295.845	
1,400.00	1,400.00	1,365.12	1,367.03	4.61	4.64	90.399	-18.04	2,588.00	2,588.28	2,579.03	9.24	280.034	
1,500.00	1,500.00	1,467.50	1,469.38	4.78	5.00	90.448	-20.24	2,589.24	2,589.50	2,579.72	9.78	264.827	
1,600.00	1,599.98	1,571.21	1,573.06	4.99	5.36	-119.693	-22.52	2,590.39	2,591.50	2,581.20	10.29	251.752	
1,638.42	1,638.36	1,612.06	1,613.88	5.04	5.51	-119.685	-23.42	2,590.79	2,592.67	2,582.21	10.46	247.832	
1,700.00	1,699.87	1,679.18	1,680.99	5.10	5.75	-119.715	-24.89	2,591.34	2,594.66	2,583.92	10.74	241.557	
1,800.00	1,799.76	1,783.82	1,785.61	5.26	6.12	-119.764	-27.07	2,591.97	2,597.67	2,586.43	11.24	231.101	
1,900.00	1,899.64	1,879.68	1,881.45	5.44	6.46	-119.811	-28.95	2,592.52	2,600.66	2,588.94	11.72	221.811	
2,000.00	1,999.52	2,001.35	2,003.09	5.64	6.89	-119.868	-31.46	2,592.98	2,603.48	2,591.17	12.30	211.597	
2,100.00	2,099.41	2,102.90	2,104.61	5.84	7.25	-119.910	-33.82	2,592.79	2,605.71	2,592.90	12.81	203.344	
2,200.00	2,199.29	2,197.99	2,199.68	6.07	7.59	-119.947	-36.11	2,592.75	2,608.08	2,594.78	13.31	196.019	
2,300.00	2,299.17	2,325.51	2,327.14	6.30	8.04	-119.989	-39.54	2,592.04	2,609.96	2,596.04	13.91	187.600	
2,400.00	2,399.06	2,430.56	2,432.14	6.54	8.41	-120.015	-42.73	2,590.64	2,611.04	2,596.60	14.44	180.792	
2,500.00	2,498.94	2,521.65	2,523.19	6.79	8.74	-120.040	-45.42	2,589.63	2,612.36	2,597.43	14.93	175.021	
2,600.00	2,598.82	2,608.18	2,609.67	7.04	9.04	-120.064	-47.94	2,589.01	2,614.07	2,598.68	15.40	169.780	
2,700.00	2,698.71	2,690.83	2,692.29	7.31	9.34	-120.089	-50.25	2,588.93	2,616.40	2,600.55	15.86	165.006	
2,800.00	2,798.59	2,783.83	2,785.25	7.58	9.67	-120.121	-52.66	2,589.43	2,619.36	2,603.01	16.36	160.152	
2,900.00	2,898.47	2,893.91	2,895.30	7.85	10.07	-120.158	-55.56	2,589.65	2,621.97	2,605.06	16.92	154.979	
3,000.00	2,998.36	3,005.63	3,006.98	8.13	10.47	-120.191	-58.76	2,589.67	2,624.44	2,606.95	17.49	150.066	
3,100.00	3,098.24	3,122.08	3,123.34	8.41	10.89	-120.203	-63.06	2,588.89	2,626.19	2,608.11	18.08	145.281	
3,200.00	3,198.12	3,206.07	3,207.26	8.70	11.19	-120.207	-66.39	2,588.30	2,627.93	2,609.38	18.55	141.663	
3,300.00	3,298.01	3,287.81	3,288.94	8.99	11.48	-120.213	-69.51	2,588.30	2,630.36	2,611.34	19.02	138.315	
3,400.00	3,397.89	3,403.15	3,404.20	9.28	11.90	-120.222	-73.91	2,588.61	2,633.09	2,613.48	19.61	134.291	
3,500.00	3,497.77	3,575.14	3,576.02	9.58	12.52	-120.234	-80.55	2,585.57	2,633.63	2,613.24	20.39	129.152	
3,600.00	3,597.66	3,681.77	3,682.54	9.88	12.89	-120.254	-84.08	2,582.16	2,632.86	2,611.91	20.94	125.708	
3,700.00	3,697.54	3,774.21	3,774.87	10.18	13.22	-120.260	-87.67	2,579.30	2,632.19	2,610.74	21.45	122.706	
3,800.00	3,797.42	3,868.28	3,868.82	10.49	13.56	-120.260	-91.58	2,576.66	2,631.81	2,609.84	21.97	119.814	
3,840.31	3,837.69	3,901.24	3,901.74	10.61	13.68	-120.259	-93.01	2,575.79	2,631.73	2,609.57	22.16	118.778	
3,900.00	3,897.31	3,943.36	3,943.80	10.79	13.83	-120.257	-94.84	2,574.91	2,631.93	2,609.51	22.42	117.411	
4,000.00	3,997.19	4,017.76	4,018.13	11.10	14.10	-120.255	-98.03	2,574.00	2,633.12	2,610.26	22.86	115.160	
4,100.00	4,097.07	4,101.38	4,101.67	11.41	14.40	-120.253	-101.62	2,573.67	2,635.14	2,611.79	23.35	112.869	
4,200.00	4,196.96	4,197.94	4,198.15	11.72	14.75	-120.254	-105.61	2,573.56	2,637.46	2,613.58	23.88	110.461	
4,300.00	4,296.84	4,292.97	4,293.11	12.03	15.09	-120.262	-109.22	2,573.61	2,639.94	2,615.54	24.40	108.186	
4,400.00	4,396.72	4,385.96	4,386.04	12.35	15.43	-120.270	-112.74	2,573.84	2,642.62	2,617.70	24.92	106.044	
4,500.00	4,496.61	4,473.22	4,473.23	12.66	15.74	-120.275	-116.12	2,574.40	2,645.69	2,620.28	25.42	104.092	
4,600.00	4,596.49	4,562.19	4,562.14	12.98	16.07	-120.287	-119.30	2,575.45	2,649.30	2,623.38	25.92	102.210	
4,700.00	4,696.37	4,688.25	4,688.10	13.29	16.52	-120.298	-124.01	2,576.48	2,652.54	2,625.98	26.56	99.859	
4,800.00	4,796.26	4,785.24	4,785.01	13.61	16.87	-120.299	-128.04	2,576.63	2,655.13	2,628.03	27.10	97.985	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 404H - OH / 68222 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 176-MWD+HJGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Measured Depth (usft)												Warning	
Vertical Depth (usft)													
Measured Depth (usft)													
Vertical Depth (usft)													
Reference													
Offset													
Semi Major Axis													
Reference													
Offset													
Highside Toolface (°)													
Offset Wellbore Centre													
+N/-S (usft)													
+E/-W (usft)													
Between Centres (usft)													
Between Ellipses (usft)													
Minimum Separation (usft)													
Separation Factor													
4,900.00	4,896.14	4,861.60	4,861.31	13.93	17.15	-120.303	-131.02	2,577.28	2,658.42	2,630.86	27.56	96.475	
5,000.00	4,996.02	4,936.69	4,936.32	14.25	17.42	-120.301	-134.24	2,578.64	2,662.65	2,634.65	28.01	95.071	
5,100.00	5,095.91	5,037.68	5,037.15	14.57	17.79	-120.282	-139.32	2,581.16	2,667.57	2,639.02	28.56	93.414	
5,200.00	5,195.79	5,250.30	5,249.54	14.89	18.56	-120.270	-148.75	2,579.97	2,668.69	2,639.18	29.52	90.415	
5,300.00	5,295.67	5,346.87	5,346.02	15.21	18.90	-120.277	-152.48	2,578.07	2,669.16	2,639.11	30.05	88.824	
5,400.00	5,395.56	5,442.23	5,441.29	15.54	19.25	-120.284	-156.11	2,576.37	2,669.81	2,639.23	30.58	87.304	
5,500.00	5,495.44	5,539.50	5,538.47	15.86	19.60	-120.291	-159.84	2,574.77	2,670.59	2,639.47	31.12	85.820	
5,600.00	5,595.32	5,638.06	5,636.95	16.19	19.95	-120.298	-163.63	2,573.22	2,671.45	2,639.79	31.66	84.375	
5,700.00	5,695.21	5,735.88	5,734.68	16.51	20.31	-120.306	-167.34	2,571.73	2,672.35	2,640.15	32.20	82.985	
5,800.00	5,795.09	5,833.43	5,832.17	16.83	20.66	-120.318	-170.84	2,570.35	2,673.37	2,640.63	32.74	81.646	
5,900.00	5,894.97	5,920.88	5,919.56	17.16	20.97	-120.335	-173.72	2,569.27	2,674.58	2,641.33	33.25	80.442	
6,000.00	5,994.86	6,001.25	5,999.88	17.49	21.26	-120.351	-176.32	2,568.83	2,676.46	2,642.74	33.73	79.353	
6,100.00	6,094.74	6,087.17	6,085.76	17.81	21.58	-120.365	-179.25	2,568.98	2,679.06	2,644.83	34.23	78.271	
6,200.00	6,194.62	6,186.30	6,184.83	18.14	21.93	-120.382	-182.59	2,569.30	2,681.82	2,647.04	34.78	77.114	
6,300.00	6,294.51	6,279.97	6,278.45	18.47	22.27	-120.400	-185.65	2,569.77	2,684.75	2,649.44	35.31	76.041	
6,400.00	6,394.39	6,374.94	6,373.37	18.79	22.62	-120.419	-188.71	2,570.45	2,687.89	2,652.05	35.84	74.996	
6,500.00	6,494.27	6,471.41	6,469.78	19.12	22.96	-120.438	-191.82	2,571.29	2,691.19	2,654.81	36.38	73.974	
6,600.00	6,594.16	6,569.70	6,568.02	19.45	23.32	-120.462	-194.81	2,572.23	2,694.59	2,657.66	36.93	72.970	
6,700.00	6,694.04	6,667.64	6,665.92	19.78	23.67	-120.490	-197.54	2,573.22	2,698.04	2,660.56	37.47	71.998	
6,800.00	6,793.92	6,767.72	6,765.97	20.11	24.03	-120.526	-200.01	2,574.31	2,701.56	2,663.53	38.03	71.040	
6,900.00	6,893.81	6,868.72	6,866.93	20.44	24.39	-120.566	-202.29	2,575.33	2,705.01	2,666.42	38.59	70.100	
7,000.00	6,993.69	6,984.20	6,982.39	20.77	24.81	-120.619	-204.59	2,576.29	2,708.31	2,669.10	39.20	69.084	
7,100.00	7,093.57	7,095.41	7,093.59	21.10	25.20	-120.685	-206.10	2,576.49	2,710.93	2,671.12	39.80	68.106	
7,200.00	7,193.46	7,192.48	7,190.65	21.43	25.55	-120.748	-207.13	2,576.54	2,713.44	2,673.09	40.35	67.241	
7,300.00	7,293.34	7,282.66	7,280.82	21.76	25.87	-120.808	-208.07	2,576.80	2,716.19	2,675.32	40.88	66.447	
7,400.00	7,393.22	7,377.45	7,375.61	22.09	26.21	-120.868	-209.12	2,577.34	2,719.23	2,677.82	41.42	65.653	
7,500.00	7,493.11	7,473.33	7,471.48	22.42	26.55	-120.929	-210.22	2,578.05	2,722.44	2,680.48	41.96	64.879	
7,600.00	7,592.99	7,569.25	7,567.39	22.75	26.89	-120.988	-211.36	2,578.90	2,725.79	2,683.29	42.51	64.126	
7,700.00	7,692.87	7,658.70	7,656.83	23.08	27.21	-121.041	-212.55	2,579.92	2,729.41	2,686.38	43.03	63.437	
7,800.00	7,792.76	7,775.03	7,773.14	23.41	27.62	-121.115	-213.81	2,581.17	2,732.96	2,689.32	43.65	62.617	
7,900.00	7,892.64	7,883.18	7,881.28	23.74	27.98	-121.217	-213.38	2,581.70	2,735.96	2,691.73	44.22	61.868	
8,000.00	7,992.52	7,976.63	7,974.73	24.07	28.29	-121.315	-212.56	2,582.18	2,739.00	2,694.26	44.74	61.220	
8,100.00	8,092.41	8,073.60	8,071.70	24.40	28.60	-121.414	-211.82	2,582.89	2,742.26	2,696.99	45.27	60.573	
8,200.00	8,192.29	8,180.76	8,178.86	24.74	28.96	-121.517	-211.27	2,583.55	2,745.41	2,699.56	45.85	59.884	
8,300.00	8,292.17	8,281.04	8,279.13	25.07	29.29	-121.609	-211.01	2,583.96	2,748.36	2,701.96	46.39	59.240	
8,400.00	8,392.06	8,378.18	8,376.27	25.40	29.61	-121.700	-210.58	2,584.50	2,751.46	2,704.52	46.93	58.626	
8,500.00	8,491.94	8,477.36	8,475.44	25.73	29.94	-121.798	-209.93	2,585.04	2,754.57	2,707.09	47.48	58.017	
8,600.00	8,591.82	8,575.08	8,573.16	26.07	30.26	-121.896	-209.24	2,585.65	2,757.76	2,709.74	48.02	57.428	
8,700.00	8,691.71	8,671.53	8,669.60	26.40	30.59	-121.987	-208.78	2,586.34	2,761.05	2,712.48	48.56	56.856	
8,800.00	8,791.59	8,765.80	8,763.87	26.73	30.91	-122.074	-208.44	2,587.17	2,764.50	2,715.40	49.10	56.305	
8,900.00	8,891.47	8,861.57	8,859.63	27.06	31.23	-122.160	-208.16	2,588.20	2,768.17	2,718.52	49.64	55.761	
9,000.00	8,991.36	8,960.06	8,958.12	27.40	31.57	-122.248	-207.89	2,589.36	2,771.92	2,721.73	50.20	55.218	
9,100.00	9,091.24	9,058.39	9,056.44	27.73	31.90	-122.337	-207.56	2,590.55	2,775.73	2,724.97	50.76	54.688	
9,200.00	9,191.12	9,177.00	9,175.04	28.06	32.31	-122.444	-207.15	2,591.71	2,779.33	2,727.94	51.39	54.085	
9,300.00	9,291.01	9,326.78	9,324.82	28.40	32.81	-122.581	-206.64	2,590.34	2,780.73	2,728.60	52.13	53.344	
9,400.00	9,390.89	9,408.60	9,406.63	28.73	33.08	-122.653	-206.52	2,589.64	2,782.48	2,729.86	52.62	52.876	
9,500.00	9,490.77	9,495.55	9,493.58	29.06	33.38	-122.732	-206.24	2,589.35	2,784.77	2,731.63	53.14	52.406	
9,600.00	9,590.66	9,590.94	9,588.96	29.40	33.71	-122.803	-206.65	2,589.43	2,787.44	2,733.75	53.69	51.916	
9,700.00	9,690.54	9,694.88	9,692.90	29.73	34.08	-122.865	-207.84	2,589.43	2,790.01	2,735.73	54.28	51.398	
9,800.00	9,790.42	9,792.90	9,790.92	30.06	34.43	-122.937	-208.34	2,589.39	2,792.58	2,737.72	54.85	50.910	
9,900.00	9,890.31	9,886.24	9,884.26	30.40	34.76	-123.011	-208.50	2,589.46	2,795.28	2,739.87	55.41	50.448	
10,000.00	9,990.19	9,977.76	9,975.78	30.73	35.09	-123.080	-208.84	2,589.83	2,798.29	2,742.33	55.96	50.009	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 404H - OH / 68222 - Surveys (H&P 474)													Offset Site Error: 0.00 usft
Survey Program: 176-MWD+HDCM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis		Highside 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)			
10,100.00	10,090.07	10,090.31	10,088.33	31.07	35.49	-123.164	-209.26	2,590.36	2,801.40	2,744.82	56.58	49.511	
10,200.00	10,189.96	10,316.64	10,314.55	31.40	36.29	-123.273	-213.32	2,585.98	2,802.23	2,744.64	57.59	48.655	
10,300.00	10,289.84	10,431.99	10,429.68	31.74	36.69	-123.286	-217.63	2,580.46	2,799.86	2,741.66	58.20	48.107	
10,400.00	10,389.72	10,499.00	10,496.60	32.07	36.93	-123.300	-219.79	2,577.59	2,798.08	2,739.42	58.66	47.701	
10,500.00	10,489.60	10,594.00	10,591.50	32.40	37.26	-123.326	-222.54	2,574.18	2,796.99	2,737.78	59.21	47.240	
10,591.61	10,581.10	10,657.91	10,655.37	32.71	37.48	-123.354	-223.86	2,572.25	2,796.55	2,736.92	59.63	46.896	
10,600.00	10,589.49	10,663.86	10,661.31	32.74	37.50	-123.358	-223.91	2,572.10	2,796.55	2,736.88	59.67	46.865	
10,700.00	10,689.37	10,808.68	10,806.07	33.07	38.00	-123.485	-223.81	2,567.69	2,796.33	2,735.93	60.40	46.299	
10,800.00	10,789.25	10,921.25	10,918.50	33.41	38.38	-123.583	-223.91	2,562.18	2,794.04	2,733.02	61.01	45.795	
10,900.00	10,889.14	10,992.78	10,989.97	33.74	38.63	-123.636	-224.37	2,559.33	2,792.66	2,731.17	61.49	45.416	
11,000.00	10,989.02	11,082.57	11,079.70	34.08	38.94	-123.700	-225.03	2,556.30	2,791.93	2,729.90	62.03	45.009	
11,094.51	11,083.43	11,161.00	11,158.09	34.39	39.21	-123.759	-225.43	2,553.82	2,791.49	2,728.97	62.52	44.651	
11,100.00	11,088.90	11,161.00	11,158.09	34.41	39.21	-123.759	-225.43	2,553.82	2,791.49	2,728.96	62.53	44.642	
11,200.00	11,188.79	11,217.56	11,214.64	34.75	39.40	-123.806	-225.49	2,552.67	2,792.29	2,729.34	62.95	44.357	
11,300.00	11,288.67	11,275.87	11,272.95	35.08	39.60	-123.859	-225.28	2,552.70	2,794.95	2,731.58	63.37	44.104	
11,400.00	11,388.55	11,384.94	11,382.02	35.42	39.97	-123.953	-224.98	2,553.28	2,798.21	2,734.23	63.98	43.734	
11,500.00	11,488.44	11,513.34	11,510.41	35.75	40.42	-124.034	-226.24	2,552.87	2,800.49	2,735.82	64.67	43.304	
11,600.00	11,588.32	11,643.84	11,640.89	36.09	40.88	-124.120	-227.33	2,551.26	2,801.93	2,736.56	65.36	42.867	
11,700.00	11,688.20	11,727.00	11,724.04	36.42	41.16	-124.199	-226.91	2,550.12	2,803.26	2,737.38	65.88	42.551	
11,800.00	11,788.09	11,821.00	11,818.03	36.76	41.48	-124.285	-226.54	2,548.90	2,804.72	2,738.28	66.44	42.215	
11,900.00	11,887.97	11,916.00	11,913.03	37.09	41.81	-124.362	-226.63	2,547.90	2,806.39	2,739.39	67.01	41.883	
11,908.72	11,896.68	11,916.00	11,913.03	37.12	41.81	-124.362	-226.63	2,547.90	2,806.57	2,739.54	67.02	41.874	
12,000.00	11,987.91	11,995.88	11,992.91	37.41	42.08	-124.433	-226.38	2,547.57	2,807.88	2,740.39	67.49	41.605	
12,047.14	12,035.04	12,048.55	12,045.57	37.47	42.25	85.737	-225.81	2,547.41	2,808.00	2,740.30	67.71	41.473	
12,100.00	12,087.91	12,106.22	12,103.23	37.47	42.44	85.715	-224.74	2,547.04	2,807.73	2,739.83	67.90	41.349	
12,192.12	12,180.03	12,183.04	12,180.03	37.47	42.70	85.682	-223.16	2,546.59	2,807.36	2,739.19	68.17	41.180	
12,200.00	12,187.91	12,188.26	12,185.25	37.48	42.72	85.683	-223.18	2,546.59	2,807.36	2,739.17	68.19	41.169	
12,300.00	12,287.91	12,249.04	12,245.96	37.48	42.93	85.734	-225.65	2,547.19	2,808.09	2,739.71	68.38	41.066	
12,400.00	12,387.91	12,282.00	12,278.44	37.49	43.06	85.845	-231.02	2,548.29	2,810.61	2,742.17	68.43	41.070	
12,500.00	12,487.91	12,329.00	12,323.09	37.50	43.23	86.137	-245.18	2,551.29	2,815.31	2,746.83	68.48	41.112	
12,547.14	12,535.04	12,329.00	12,323.09	37.49	43.23	86.137	-245.18	2,551.29	2,818.46	2,750.02	68.44	41.183	
12,550.00	12,537.91	12,329.00	12,323.09	37.50	43.23	-93.266	-245.18	2,551.29	2,818.68	2,750.24	68.44	41.187	
12,600.00	12,587.83	12,358.84	12,350.29	37.64	43.34	-92.632	-257.12	2,554.07	2,822.62	2,754.13	68.49	41.212	
12,650.00	12,637.36	12,376.00	12,365.65	37.90	43.41	-92.038	-264.56	2,555.94	2,827.45	2,758.88	68.56	41.238	
12,700.00	12,686.10	12,376.00	12,365.65	38.17	43.41	-91.464	-264.56	2,555.94	2,833.16	2,764.50	68.66	41.266	
12,750.00	12,733.70	12,402.38	12,388.72	38.46	43.51	-90.714	-276.90	2,559.29	2,839.40	2,770.58	68.82	41.256	
12,800.00	12,779.78	12,424.00	12,407.05	38.75	43.59	-89.948	-287.89	2,562.52	2,846.48	2,777.46	69.02	41.241	
12,850.00	12,824.00	12,424.00	12,407.05	39.03	43.59	-89.175	-287.89	2,562.52	2,854.12	2,784.89	69.24	41.223	
12,900.00	12,866.02	12,424.00	12,407.05	39.31	43.59	-88.320	-287.89	2,562.52	2,862.55	2,793.06	69.49	41.195	
12,950.00	12,905.52	12,447.65	12,426.47	39.57	43.67	-87.450	-300.72	2,566.65	2,871.21	2,801.41	69.80	41.133	
13,000.00	12,942.21	12,472.00	12,445.75	39.82	43.76	-86.578	-314.72	2,571.69	2,880.71	2,810.56	70.15	41.063	
13,050.00	12,975.79	12,472.00	12,445.75	40.06	43.76	-85.606	-314.72	2,571.69	2,890.27	2,819.76	70.52	40.987	
13,100.00	13,006.02	12,472.00	12,445.75	40.27	43.76	-84.582	-314.72	2,571.69	2,900.34	2,829.43	70.91	40.900	
13,150.00	13,032.66	12,489.87	12,459.48	40.46	43.83	-83.656	-325.39	2,575.82	2,910.62	2,839.26	71.36	40.789	
13,200.00	13,055.52	12,501.46	12,468.24	40.63	43.87	-82.691	-332.42	2,578.65	2,921.09	2,849.26	71.83	40.669	
13,250.00	13,074.42	12,519.00	12,481.29	40.77	43.94	-81.793	-343.24	2,583.18	2,931.69	2,859.36	72.33	40.533	
13,300.00	13,089.21	12,519.00	12,481.29	40.89	43.94	-80.721	-343.24	2,583.18	2,942.29	2,869.46	72.83	40.398	
13,350.00	13,099.79	12,734.51	12,618.57	40.99	44.77	-81.919	-499.93	2,634.96	2,951.61	2,878.12	73.49	40.164	
13,400.00	13,106.06	12,755.00	12,629.35	41.06	44.85	-81.326	-516.81	2,639.27	2,959.32	2,885.26	74.06	39.956	
13,447.14	13,108.00	12,755.00	12,629.35	41.11	44.85	-80.599	-516.81	2,639.27	2,966.60	2,891.98	74.62	39.756	
13,500.00	13,108.00	12,755.00	12,629.35	41.15	44.85	-80.599	-516.81	2,639.27	2,975.28	2,900.04	75.25	39.541	
13,600.00	13,108.00	12,782.30	12,642.54	41.25	44.96	-80.873	-539.82	2,645.70	2,993.46	2,917.02	76.43	39.163	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,700.00	13,108.00	12,803.00	12,651.33	41.37	45.04	-81.059	-557.69	2,651.32	3,014.63	2,937.01	77.62	38.838	
13,800.00	13,108.00	12,803.00	12,651.33	41.51	45.04	-81.059	-557.69	2,651.32	3,038.54	2,959.76	78.78	38.570	
13,900.00	13,108.00	12,803.00	12,651.33	41.67	45.04	-81.059	-557.69	2,651.32	3,065.52	2,985.61	79.91	38.362	
14,000.00	13,108.00	12,829.04	12,660.83	41.87	45.15	-81.266	-580.47	2,659.57	3,094.55	3,013.50	81.05	38.182	
14,100.00	13,108.00	13,736.53	12,686.11	42.10	49.73	-82.177	-1,456.21	2,828.21	3,104.29	3,021.25	83.04	37.383	
14,200.00	13,108.00	13,879.52	12,685.97	42.37	50.69	-82.190	-1,598.98	2,835.94	3,108.44	3,023.67	84.76	36.671	
14,300.00	13,108.00	14,007.83	12,685.97	42.69	51.60	-82.199	-1,727.18	2,841.02	3,111.14	3,024.58	86.56	35.943	
14,400.00	13,108.00	14,245.00	12,684.41	43.06	53.38	-82.174	-1,964.23	2,844.71	3,111.17	3,022.39	88.78	35.045	
14,500.00	13,108.00	14,318.75	12,683.23	43.48	53.97	-82.150	-2,037.96	2,844.45	3,110.15	3,019.59	90.56	34.343	
14,600.00	13,108.00	14,426.47	12,681.74	43.97	54.85	-82.122	-2,145.68	2,845.17	3,110.02	3,017.51	92.51	33.618	
14,700.00	13,108.00	14,658.96	12,681.08	44.53	56.83	-82.098	-2,378.08	2,842.90	3,109.07	3,014.01	95.06	32.707	
14,800.00	13,108.00	14,810.00	12,681.91	45.16	58.16	-82.092	-2,528.94	2,836.02	3,103.51	3,006.18	97.33	31.887	
14,900.00	13,108.00	14,865.85	12,682.75	45.87	58.67	-82.097	-2,584.66	2,832.50	3,096.81	2,997.60	99.22	31.212	
15,000.00	13,108.00	14,905.00	12,683.85	46.64	59.02	-82.115	-2,623.79	2,831.74	3,093.07	2,992.05	101.02	30.617	
15,094.31	13,108.00	14,905.00	12,683.85	47.44	59.02	-82.115	-2,623.79	2,831.74	3,091.63	2,989.13	102.51	30.160	
15,100.00	13,108.00	14,905.00	12,683.85	47.49	59.02	-82.115	-2,623.79	2,831.74	3,091.64	2,989.04	102.60	30.134	
15,200.00	13,108.00	15,282.00	12,693.91	48.39	62.65	-82.266	-2,999.61	2,822.30	3,089.00	2,982.63	106.37	29.040	
15,300.00	13,108.00	15,321.38	12,695.16	49.36	63.04	-82.282	-3,038.88	2,819.70	3,081.16	2,972.88	108.28	28.456	
15,400.00	13,108.00	15,376.00	12,696.63	50.38	63.59	-82.303	-3,093.44	2,817.61	3,075.59	2,965.33	110.27	27.892	
15,500.00	13,108.00	15,376.00	12,696.63	51.44	63.59	-82.303	-3,093.44	2,817.61	3,071.89	2,960.00	111.89	27.455	
15,600.00	13,108.00	15,415.46	12,697.75	52.54	64.00	-82.322	-3,132.88	2,817.43	3,070.52	2,956.76	113.75	26.993	
15,604.46	13,108.00	15,416.68	12,697.79	52.59	64.01	-82.323	-3,134.10	2,817.45	3,070.51	2,956.68	113.83	26.974	
15,700.00	13,108.00	15,471.00	12,699.86	53.67	64.58	-82.365	-3,188.34	2,819.56	3,072.07	2,956.34	115.72	26.547	
15,800.00	13,108.00	15,471.00	12,699.86	54.84	64.58	-82.365	-3,188.34	2,819.56	3,075.04	2,957.83	117.21	26.236	
15,900.00	13,108.00	15,565.00	12,700.50	56.02	65.58	-82.386	-3,282.18	2,824.52	3,079.21	2,959.73	119.48	25.771	
16,000.00	13,108.00	15,629.52	12,698.86	57.24	66.27	-82.363	-3,346.58	2,828.04	3,084.19	2,962.70	121.49	25.386	
16,100.00	13,108.00	15,687.10	12,697.82	58.47	66.90	-82.353	-3,403.98	2,832.43	3,090.91	2,967.48	123.43	25.042	
16,200.00	13,108.00	15,769.41	12,696.12	59.71	67.80	-82.338	-3,485.98	2,839.42	3,098.59	2,972.97	125.61	24.668	
16,300.00	13,108.00	15,905.17	12,696.60	60.97	69.32	-82.371	-3,621.25	2,850.85	3,105.90	2,977.52	128.38	24.193	
16,400.00	13,108.00	16,252.98	12,701.81	62.25	73.25	-82.494	-3,968.51	2,865.54	3,109.59	2,976.40	133.19	23.347	
16,500.00	13,108.00	16,319.00	12,700.54	63.53	74.00	-82.468	-4,034.51	2,865.34	3,108.66	2,973.32	135.34	22.970	
16,531.29	13,108.00	16,345.03	12,699.99	63.94	74.30	-82.458	-4,060.53	2,865.42	3,108.55	2,972.49	136.06	22.847	
16,600.00	13,108.00	16,379.89	12,699.75	64.83	74.70	-82.454	-4,095.39	2,865.93	3,108.92	2,971.48	137.44	22.621	
16,700.00	13,108.00	16,442.43	12,700.58	66.13	75.42	-82.472	-4,157.89	2,867.86	3,110.74	2,971.18	139.56	22.290	
16,800.00	13,108.00	16,636.80	12,701.76	67.45	77.70	-82.498	-4,352.17	2,871.62	3,111.64	2,968.68	142.96	21.765	
16,848.42	13,108.00	16,662.21	12,701.59	68.09	78.00	-82.495	-4,377.58	2,871.76	3,111.47	2,967.51	143.96	21.613	
16,900.00	13,108.00	16,698.00	12,701.60	68.77	78.42	-82.495	-4,413.36	2,872.31	3,111.69	2,966.59	145.10	21.445	
17,000.00	13,108.00	16,790.45	12,701.42	70.10	79.51	-82.494	-4,505.80	2,874.05	3,112.57	2,965.03	147.54	21.096	
17,100.00	13,108.00	16,887.00	12,701.18	71.43	80.66	-82.490	-4,602.34	2,875.23	3,112.84	2,962.81	150.03	20.748	
17,200.00	13,108.00	16,946.95	12,701.63	72.77	81.39	-82.500	-4,662.27	2,876.46	3,114.00	2,961.85	152.16	20.466	
17,300.00	13,108.00	17,007.29	12,702.42	74.11	82.12	-82.519	-4,722.55	2,879.07	3,116.99	2,962.71	154.28	20.204	
17,400.00	13,108.00	17,210.14	12,702.27	75.46	84.59	-82.526	-4,925.29	2,885.12	3,119.17	2,961.22	157.94	19.749	
17,500.00	13,108.00	17,523.42	12,698.46	76.81	88.38	-82.426	-5,238.29	2,875.47	3,114.01	2,951.64	162.37	19.178	
17,600.00	13,108.00	17,549.00	12,697.97	78.17	88.69	-82.412	-5,263.82	2,873.94	3,108.19	2,943.86	164.34	18.914	
17,700.00	13,108.00	17,594.88	12,697.14	79.53	89.25	-82.392	-5,309.66	2,872.15	3,104.20	2,937.77	166.42	18.652	
17,800.00	13,108.00	17,643.00	12,696.56	80.89	89.85	-82.380	-5,357.76	2,872.33	3,103.06	2,934.56	168.50	18.416	
17,828.55	13,108.00	17,643.00	12,696.56	81.29	89.85	-82.380	-5,357.76	2,872.33	3,102.93	2,933.99	168.95	18.366	
17,900.00	13,108.00	17,643.00	12,696.56	82.26	89.85	-82.380	-5,357.76	2,872.33	3,103.76	2,933.75	170.01	18.256	
18,000.00	13,108.00	17,684.19	12,696.05	83.63	90.37	-82.374	-5,398.92	2,873.89	3,106.87	2,934.97	171.90	18.073	
18,100.00	13,108.00	17,737.00	12,694.95	85.00	91.03	-82.361	-5,451.60	2,877.37	3,112.28	2,938.38	173.90	17.897	
18,200.00	13,108.00	18,084.59	12,692.38	86.38	95.44	-82.335	-5,798.81	2,889.56	3,116.96	2,937.55	179.41	17.373	
18,300.00	13,108.00	18,197.10	12,690.63	87.76	96.86	-82.296	-5,911.28	2,887.65	3,114.48	2,932.34	182.14	17.099	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 404H - OH / 68222 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 176-MWD+HDGM												Offset Well Error:	1.00 usft
Reference	Offset	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)			
18,400.00	13,108.00	18,351.20	12,691.40	89.14	98.80	-82.294	-6,065.30	2,882.67	3,109.81	2,924.52	185.28	16.784	
18,500.00	13,108.00	18,411.07	12,692.08	90.52	99.56	-82.301	-6,125.14	2,881.16	3,106.13	2,918.58	187.55	16.562	
18,600.00	13,108.00	18,494.00	12,691.38	91.90	100.61	-82.282	-6,208.05	2,879.51	3,103.28	2,913.26	190.02	16.331	
18,700.00	13,108.00	18,575.60	12,689.01	93.29	101.66	-82.233	-6,289.60	2,878.13	3,101.01	2,908.54	192.47	16.112	
18,800.00	13,108.00	18,683.00	12,687.47	94.68	103.04	-82.198	-6,386.97	2,876.40	3,098.58	2,903.39	195.19	15.875	
18,900.00	13,108.00	18,777.00	12,687.92	96.06	104.25	-82.201	-6,490.96	2,875.47	3,096.54	2,898.75	197.79	15.656	
19,000.00	13,108.00	18,844.00	12,687.74	97.46	105.11	-82.197	-6,557.95	2,875.47	3,095.42	2,895.32	200.10	15.469	
19,090.16	13,108.00	18,897.87	12,687.47	98.71	105.81	-82.191	-6,611.82	2,875.64	3,094.96	2,892.86	202.10	15.314	
19,100.00	13,108.00	18,902.09	12,687.44	98.85	105.87	-82.190	-6,616.05	2,875.69	3,094.99	2,892.70	202.29	15.300	
19,200.00	13,108.00	18,965.00	12,687.05	100.24	106.69	-82.186	-6,678.93	2,877.40	3,096.49	2,891.97	204.52	15.140	
19,300.00	13,108.00	19,010.73	12,686.78	101.64	107.29	-82.184	-6,724.62	2,879.32	3,099.33	2,892.84	206.49	15.009	
19,400.00	13,108.00	19,084.40	12,686.44	103.03	108.26	-82.185	-6,798.21	2,882.72	3,103.02	2,894.20	208.82	14.860	
19,500.00	13,108.00	19,288.83	12,684.57	104.43	110.96	-82.167	-7,002.40	2,891.15	3,106.94	2,894.04	212.89	14.594	
19,600.00	13,108.00	19,344.00	12,683.49	105.83	111.69	-82.149	-7,057.55	2,892.30	3,108.39	2,893.38	215.01	14.457	
19,700.00	13,108.00	19,403.01	12,682.37	107.23	112.47	-82.132	-7,116.51	2,894.37	3,111.21	2,894.07	217.14	14.328	
19,800.00	13,108.00	19,459.81	12,681.41	108.63	113.23	-82.120	-7,173.23	2,897.33	3,115.58	2,896.36	219.22	14.212	
19,900.00	13,108.00	19,723.00	12,682.91	110.03	116.72	-82.156	-7,436.13	2,903.26	3,114.74	2,890.61	224.13	13.897	
19,907.13	13,108.00	19,723.00	12,682.91	110.13	116.72	-82.156	-7,436.13	2,903.26	3,114.74	2,890.50	224.24	13.890	
20,000.00	13,108.00	19,789.55	12,684.51	111.43	117.60	-82.187	-7,502.65	2,904.72	3,115.41	2,888.95	226.45	13.757	
20,100.00	13,108.00	20,020.29	12,685.33	112.84	120.66	-82.191	-7,733.32	2,902.47	3,112.41	2,881.77	230.64	13.495	
20,200.00	13,108.00	20,101.00	12,683.04	114.24	121.73	-82.142	-7,813.98	2,900.58	3,109.46	2,876.33	233.13	13.338	
20,300.00	13,108.00	20,212.46	12,680.34	115.65	123.20	-82.084	-7,925.38	2,898.17	3,106.67	2,870.74	235.93	13.168	
20,400.00	13,108.00	20,322.85	12,680.53	117.05	124.67	-82.078	-8,035.73	2,895.57	3,103.31	2,864.56	238.75	12.998	
20,500.00	13,108.00	20,407.47	12,681.11	118.46	125.79	-82.081	-8,120.32	2,893.67	3,100.02	2,858.70	241.32	12.846	
20,600.00	13,108.00	20,477.10	12,683.54	119.87	126.72	-82.123	-8,189.91	2,893.04	3,097.62	2,853.87	243.74	12.708	
20,700.00	13,108.00	20,525.00	12,685.89	121.28	127.37	-82.164	-8,237.75	2,892.90	3,096.10	2,850.20	245.90	12.591	
20,708.60	13,108.00	20,525.00	12,685.89	121.40	127.37	-82.164	-8,237.75	2,892.90	3,096.08	2,850.06	246.03	12.584	
20,800.00	13,108.00	20,525.00	12,685.89	122.68	127.37	-82.164	-8,237.75	2,892.90	3,097.43	2,850.13	247.30	12.525	
20,900.00	13,108.00	20,525.00	12,685.89	124.09	127.37	-82.164	-8,237.75	2,892.90	3,101.99	2,853.52	248.47	12.484	
21,000.00	13,108.00	20,525.00	12,685.89	125.51	127.37	-82.164	-8,237.75	2,892.90	3,109.77	2,860.35	249.41	12.468 SF	
21,100.00	13,108.00	20,525.00	12,685.89	126.92	127.37	-82.164	-8,237.75	2,892.90	3,120.73	2,870.60	250.13	12.477	
21,200.00	13,108.00	20,525.00	12,685.89	128.33	127.37	-82.164	-8,237.75	2,892.90	3,134.84	2,884.23	250.61	12.509	
21,300.00	13,108.00	20,525.00	12,685.89	129.74	127.37	-82.164	-8,237.75	2,892.90	3,152.06	2,901.19	250.88	12.564	
21,400.00	13,108.00	20,525.00	12,685.89	131.15	127.37	-82.164	-8,237.75	2,892.90	3,172.34	2,921.42	250.92	12.643	
21,500.00	13,108.00	20,525.00	12,685.89	132.57	127.37	-82.164	-8,237.75	2,892.90	3,195.63	2,944.87	250.76	12.744	
21,600.00	13,108.00	20,525.00	12,685.89	133.98	127.37	-82.164	-8,237.75	2,892.90	3,221.85	2,971.45	250.40	12.867	
21,700.00	13,108.00	20,525.00	12,685.89	135.39	127.37	-82.164	-8,237.75	2,892.90	3,250.94	3,001.08	249.86	13.011	
21,800.00	13,108.00	20,525.00	12,685.89	136.81	127.37	-82.164	-8,237.75	2,892.90	3,282.82	3,033.68	249.14	13.177	
21,900.00	13,108.00	20,525.00	12,685.89	138.22	127.37	-82.164	-8,237.75	2,892.90	3,317.40	3,069.15	248.26	13.363	
22,000.00	13,108.00	20,525.00	12,685.89	139.64	127.37	-82.164	-8,237.75	2,892.90	3,354.62	3,107.39	247.23	13.569	
22,100.00	13,108.00	20,525.00	12,685.89	141.06	127.37	-82.164	-8,237.75	2,892.90	3,394.37	3,148.31	246.06	13.795	
22,200.00	13,108.00	20,525.00	12,685.89	142.47	127.37	-82.164	-8,237.75	2,892.90	3,436.57	3,191.80	244.77	14.040	
22,300.00	13,108.00	20,525.00	12,685.89	143.89	127.37	-82.164	-8,237.75	2,892.90	3,481.13	3,237.76	243.37	14.304	
22,400.00	13,108.00	20,525.00	12,685.89	145.31	127.37	-82.164	-8,237.75	2,892.90	3,527.97	3,286.09	241.88	14.586	
22,500.00	13,108.00	20,525.00	12,685.89	146.72	127.37	-82.164	-8,237.75	2,892.90	3,576.99	3,336.69	240.30	14.885	
22,600.00	13,108.00	20,525.00	12,685.89	148.14	127.37	-82.164	-8,237.75	2,892.90	3,628.10	3,389.45	238.65	15.203	
22,700.00	13,108.00	20,525.00	12,685.89	149.56	127.37	-82.164	-8,237.75	2,892.90	3,681.22	3,444.28	236.94	15.537	
22,800.00	13,108.00	20,525.00	12,685.89	150.98	127.37	-82.164	-8,237.75	2,892.90	3,736.27	3,501.09	235.18	15.887	
22,900.00	13,108.00	20,525.00	12,685.89	152.40	127.37	-82.164	-8,237.75	2,892.90	3,793.15	3,559.77	233.38	16.253	
23,000.00	13,108.00	20,525.00	12,685.89	153.82	127.37	-82.164	-8,237.75	2,892.90	3,851.79	3,620.24	231.54	16.635	
23,100.00	13,108.00	20,525.00	12,685.89	155.24	127.37	-82.164	-8,237.75	2,892.90	3,912.10	3,682.41	229.69	17.032	
23,200.00	13,108.00	20,525.00	12,685.89	156.66	127.37	-82.164	-8,237.75	2,892.90	3,974.02	3,746.20	227.82	17.444	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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						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		
23,247.14	13,108.00	20,525.00	12,685.89	157.33	127.37	-82.164	-8,237.75	2,892.90	4,003.74	3,776.80	226.93	17.643		



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 434H - OH / 68223 - Surveys (H&P 474)													Offset Site Error: 0.00 usft
Survey Program: 176-MWD+HDGM													Offset Well Error: 1.00 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	2.00	1.00	1.00	90.115	-5.04	2,522.32	2,522.33				
100.00	100.00	99.67	101.67	1.08	1.01	90.117	-5.17	2,522.29	2,522.30	2,520.20	2.10	1,203.611	
200.00	200.00	198.85	200.85	1.60	1.06	90.126	-5.54	2,522.20	2,522.21	2,519.55	2.66	949.067	
210.18	210.18	208.19	210.18	1.64	1.07	90.127	-5.57	2,522.20	2,522.21	2,519.50	2.71	931.217	
300.00	300.00	290.49	292.49	2.01	1.20	90.131	-5.75	2,522.32	2,522.34	2,519.13	3.21	784.922	
400.00	400.00	408.42	410.41	2.35	1.47	90.135	-5.93	2,522.22	2,522.25	2,518.42	3.83	659.120	
500.00	500.00	504.40	506.40	2.65	1.74	90.145	-6.38	2,521.90	2,521.91	2,517.52	4.39	574.007	
600.00	600.00	598.18	600.18	2.93	2.02	90.161	-7.10	2,521.74	2,521.75	2,516.81	4.95	509.673	
601.63	601.63	599.63	601.63	2.93	2.03	90.162	-7.11	2,521.74	2,521.75	2,516.80	4.96	508.791	
700.00	700.00	691.12	693.11	3.18	2.31	90.173	-7.61	2,521.92	2,521.94	2,516.45	5.49	459.150	
800.00	800.00	799.43	801.42	3.41	2.67	90.191	-8.42	2,522.10	2,522.12	2,516.04	6.08	414.757	
900.00	900.00	905.64	907.63	3.64	3.02	90.203	-8.94	2,521.83	2,521.86	2,515.20	6.66	378.832	
1,000.00	1,000.00	1,002.28	1,004.26	3.85	3.35	90.214	-9.42	2,521.58	2,521.60	2,514.41	7.20	350.453	
1,081.68	1,081.68	1,079.69	1,081.67	4.01	3.61	90.222	-9.75	2,521.51	2,521.53	2,513.90	7.62	330.696	
1,100.00	1,100.00	1,096.81	1,098.80	4.05	3.67	90.223	-9.83	2,521.51	2,521.53	2,513.81	7.72	326.591	
1,200.00	1,200.00	1,187.70	1,189.68	4.24	3.99	90.239	-10.50	2,521.69	2,521.73	2,513.51	8.23	306.502	
1,300.00	1,300.00	1,272.38	1,274.35	4.43	4.28	90.259	-11.39	2,522.25	2,522.41	2,513.70	8.70	289.778	
1,400.00	1,400.00	1,358.60	1,360.57	4.61	4.57	90.266	-11.71	2,523.47	2,523.80	2,514.63	9.18	275.031	
1,500.00	1,500.00	1,470.32	1,472.27	4.78	4.94	90.248	-10.93	2,524.92	2,525.10	2,515.38	9.72	259.706	
1,600.00	1,599.98	1,570.14	1,572.09	4.99	5.27	-119.958	-10.23	2,525.95	2,527.00	2,516.79	10.21	247.607	
1,638.42	1,638.36	1,605.47	1,607.42	5.04	5.39	-119.971	-10.01	2,526.36	2,528.25	2,517.90	10.35	244.331	
1,700.00	1,699.87	1,691.41	1,693.35	5.10	5.68	-120.069	-9.29	2,527.09	2,530.28	2,519.60	10.68	236.951	
1,800.00	1,799.76	1,816.53	1,818.44	5.26	6.10	-120.240	-6.96	2,526.70	2,532.38	2,521.15	11.22	225.618	
1,900.00	1,899.64	1,907.83	1,909.71	5.44	6.41	-120.377	-4.68	2,526.22	2,534.29	2,522.61	11.68	217.048	
2,000.00	1,999.52	2,003.32	2,005.18	5.64	6.73	-120.518	-2.41	2,525.92	2,536.43	2,524.29	12.15	208.800	
2,100.00	2,099.41	2,109.51	2,111.34	5.84	7.09	-120.664	-0.39	2,525.58	2,538.59	2,525.93	12.66	200.510	
2,200.00	2,199.29	2,365.46	2,367.11	6.07	7.97	-121.000	3.83	2,518.47	2,539.52	2,525.85	13.67	185.726	
2,300.00	2,299.17	2,511.18	2,512.32	6.30	8.48	-121.214	7.09	2,506.79	2,533.80	2,519.48	14.32	176.906	
2,400.00	2,399.06	2,592.38	2,593.24	6.54	8.76	-121.326	8.54	2,500.21	2,528.23	2,513.46	14.77	171.154	
2,500.00	2,498.94	2,715.71	2,716.20	6.79	9.19	-121.488	10.41	2,490.90	2,523.36	2,508.00	15.36	164.299	
2,600.00	2,598.82	2,830.86	2,830.82	7.04	9.60	-121.660	12.98	2,480.05	2,516.43	2,500.50	15.92	158.037	
2,700.00	2,698.71	2,977.24	2,976.36	7.31	10.13	-121.888	16.57	2,464.85	2,508.54	2,491.96	16.59	151.224	
2,800.00	2,798.59	3,070.64	3,069.17	7.58	10.46	-122.040	19.07	2,454.71	2,500.28	2,483.19	17.09	146.272	
2,900.00	2,898.47	3,189.59	3,187.35	7.85	10.90	-122.200	20.73	2,441.31	2,491.61	2,473.93	17.68	140.932	
3,000.00	2,998.36	3,273.76	3,270.95	8.13	11.20	-122.294	21.00	2,431.58	2,482.67	2,464.51	18.16	136.700	
3,100.00	3,098.24	3,342.74	3,339.56	8.41	11.46	-122.369	21.17	2,424.43	2,474.87	2,456.27	18.60	133.074	
3,200.00	3,198.12	3,416.00	3,412.51	8.70	11.72	-122.450	21.42	2,417.73	2,468.30	2,449.25	19.05	129.584	
3,300.00	3,298.01	3,477.83	3,474.16	8.99	11.95	-122.518	21.63	2,412.88	2,463.02	2,443.56	19.46	126.565	
3,400.00	3,397.89	3,633.80	3,629.59	9.28	12.52	-122.708	22.92	2,400.27	2,457.70	2,437.52	20.18	121.770	
3,500.00	3,497.77	3,742.26	3,737.57	9.58	12.91	-122.847	24.03	2,390.12	2,451.02	2,430.27	20.75	118.100	
3,600.00	3,597.66	3,841.01	3,835.80	9.88	13.28	-122.952	24.05	2,380.02	2,443.42	2,422.12	21.29	114.743	
3,700.00	3,697.54	3,928.20	3,922.63	10.18	13.60	-123.038	23.76	2,372.04	2,436.83	2,415.03	21.80	111.779	
3,800.00	3,797.42	4,100.53	4,093.94	10.49	14.24	-123.223	23.69	2,353.49	2,428.67	2,406.09	22.58	107.581	
3,900.00	3,897.31	4,172.00	4,164.90	10.79	14.51	-123.300	23.63	2,344.93	2,419.43	2,396.39	23.04	105.010	
4,000.00	3,997.19	4,251.05	4,243.47	11.10	14.81	-123.382	23.43	2,336.26	2,411.17	2,387.64	23.53	102.482	
4,100.00	4,097.07	4,344.48	4,336.43	11.41	15.15	-123.483	23.35	2,326.95	2,403.85	2,379.78	24.06	99.902	
4,200.00	4,196.96	4,474.48	4,465.69	11.72	15.64	-123.646	24.17	2,313.04	2,395.83	2,371.12	24.72	96.938	
4,300.00	4,296.84	4,551.00	4,541.73	12.03	15.93	-123.756	25.15	2,304.61	2,387.61	2,362.40	25.20	94.736	
4,400.00	4,396.72	4,612.57	4,603.01	12.35	16.16	-123.843	25.93	2,298.61	2,380.70	2,355.06	25.64	92.850	
4,500.00	4,496.61	4,691.72	4,681.91	12.66	16.45	-123.944	26.55	2,292.32	2,375.43	2,349.30	26.13	90.896	
4,600.00	4,596.49	4,790.90	4,780.76	12.98	16.82	-124.067	27.14	2,284.43	2,370.22	2,343.52	26.69	88.790	
4,700.00	4,696.37	4,992.05	4,980.90	13.29	17.57	-124.360	29.83	2,264.80	2,363.52	2,335.93	27.59	85.664	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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)			
4,800.00	4,796.26	5,095.38	5,083.36	13.61	17.97	-124.525	31.54	2,251.60	2,353.58	2,325.41	28.17	83.537	
4,900.00	4,896.14	5,180.48	5,167.86	13.93	18.30	-124.654	32.67	2,241.50	2,344.54	2,315.84	28.70	81.683	
5,000.00	4,996.02	5,320.77	5,307.04	14.25	18.83	-124.888	35.27	2,224.12	2,335.15	2,305.74	29.40	79.416	
5,100.00	5,095.91	5,377.29	5,363.13	14.57	19.05	-124.984	36.36	2,217.20	2,325.68	2,295.83	29.85	77.910	
5,200.00	5,195.79	5,463.06	5,448.35	14.89	19.38	-125.118	37.62	2,207.63	2,317.40	2,287.02	30.39	76.266	
5,300.00	5,295.67	5,648.32	5,631.91	15.21	20.10	-125.454	41.70	2,183.16	2,306.96	2,275.73	31.23	73.864	
5,400.00	5,395.56	5,738.47	5,721.05	15.54	20.45	-125.631	44.03	2,169.90	2,295.31	2,263.51	31.79	72.191	
5,500.00	5,495.44	5,822.62	5,804.33	15.86	20.78	-125.790	45.92	2,158.00	2,284.22	2,251.88	32.34	70.633	
5,600.00	5,595.32	5,907.25	5,888.19	16.19	21.11	-125.941	47.51	2,146.67	2,273.86	2,240.97	32.89	69.146	
5,700.00	5,695.21	5,999.81	5,979.97	16.51	21.47	-126.097	48.85	2,134.76	2,263.99	2,230.54	33.45	67.674	
5,800.00	5,795.09	6,097.16	6,076.52	16.83	21.85	-126.253	49.92	2,122.35	2,254.25	2,220.21	34.04	66.225	
5,900.00	5,894.97	6,185.59	6,164.25	17.16	22.20	-126.389	50.64	2,111.34	2,244.78	2,210.19	34.60	64.885	
6,000.00	5,994.86	6,270.59	6,248.67	17.49	22.52	-126.510	51.01	2,101.40	2,236.04	2,200.90	35.14	63.628	
6,100.00	6,094.74	6,377.39	6,354.75	17.81	22.94	-126.666	51.56	2,089.01	2,227.41	2,191.65	35.76	62.290	
6,200.00	6,194.62	6,478.18	6,454.81	18.14	23.33	-126.830	52.65	2,076.90	2,218.45	2,182.09	36.36	61.013	
6,300.00	6,294.51	6,565.85	6,541.88	18.47	23.66	-126.966	53.32	2,066.71	2,209.87	2,172.95	36.92	59.856	
6,400.00	6,394.39	6,656.20	6,631.66	18.79	24.01	-127.108	54.12	2,056.67	2,201.82	2,164.33	37.49	58.732	
6,500.00	6,494.27	6,754.28	6,729.14	19.12	24.39	-127.281	55.69	2,045.87	2,193.97	2,155.89	38.09	57.602	
6,600.00	6,594.16	6,849.48	6,823.75	19.45	24.76	-127.454	57.33	2,035.48	2,186.26	2,147.58	38.68	56.521	
6,700.00	6,694.04	6,940.33	6,914.08	19.78	25.10	-127.615	58.78	2,025.86	2,178.87	2,139.61	39.26	55.502	
6,800.00	6,793.92	7,029.17	7,002.45	20.11	25.44	-127.767	59.98	2,016.88	2,171.95	2,132.13	39.83	54.533	
6,900.00	6,893.81	7,122.35	7,095.20	20.44	25.80	-127.920	61.06	2,007.95	2,165.54	2,125.13	40.41	53.585	
7,000.00	6,993.69	7,244.29	7,216.51	20.77	26.26	-128.133	62.81	1,995.74	2,158.78	2,117.68	41.10	52.524	
7,100.00	7,093.57	7,352.46	7,323.99	21.10	26.68	-128.345	65.02	1,983.75	2,151.03	2,109.28	41.75	51.525	
7,200.00	7,193.46	7,438.69	7,409.70	21.43	27.01	-128.514	66.78	1,974.39	2,143.55	2,101.23	42.32	50.650	
7,300.00	7,293.34	7,523.91	7,494.48	21.76	27.34	-128.671	68.18	1,965.83	2,136.64	2,093.95	42.89	49.823	
7,400.00	7,393.22	7,614.90	7,585.05	22.09	27.68	-128.832	69.47	1,957.20	2,130.67	2,087.19	43.48	49.009	
7,500.00	7,493.11	7,710.32	7,680.06	22.42	28.04	-128.991	70.50	1,948.49	2,124.81	2,080.73	44.08	48.207	
7,600.00	7,592.99	7,832.84	7,802.03	22.75	28.51	-129.196	71.74	1,937.05	2,118.83	2,074.05	44.77	47.322	
7,700.00	7,692.87	7,945.31	7,913.80	23.08	28.94	-129.443	74.75	1,924.85	2,111.55	2,066.09	45.45	46.456	
7,800.00	7,792.76	8,029.84	7,997.81	23.41	29.27	-129.635	77.24	1,915.77	2,104.46	2,058.43	46.03	45.715	
7,900.00	7,892.64	8,109.74	8,077.29	23.74	29.57	-129.807	79.31	1,907.91	2,098.25	2,051.65	46.60	45.029	
8,000.00	7,992.52	8,190.87	8,158.09	24.07	29.88	-129.973	81.17	1,900.75	2,093.00	2,045.84	47.16	44.380	
8,100.00	8,092.41	8,270.76	8,237.71	24.40	30.18	-130.122	82.61	1,894.44	2,088.63	2,040.92	47.71	43.774	
8,200.00	8,192.29	8,332.00	8,298.80	24.74	30.40	-130.229	83.52	1,890.24	2,085.42	2,037.23	48.19	43.278	
8,300.00	8,292.17	8,402.50	8,369.19	25.07	30.66	-130.351	84.76	1,886.53	2,083.80	2,035.11	48.69	42.799	
8,335.32	8,327.45	8,426.00	8,392.66	25.19	30.74	-130.394	85.31	1,885.64	2,083.73	2,034.87	48.86	42.649 CC, ES	
8,400.00	8,392.06	8,472.42	8,439.04	25.40	30.90	-130.481	86.52	1,884.21	2,084.06	2,034.88	49.18	42.376	
8,500.00	8,491.94	8,557.60	8,524.17	25.73	31.20	-130.643	88.98	1,882.24	2,085.42	2,035.69	49.74	41.927	
8,600.00	8,591.82	8,654.39	8,620.91	26.07	31.54	-130.816	91.41	1,880.31	2,087.08	2,036.73	50.35	41.452	
8,700.00	8,691.71	8,748.61	8,715.10	26.40	31.87	-130.968	93.28	1,878.75	2,088.99	2,038.05	50.94	41.006	
8,800.00	8,791.59	8,842.69	8,809.16	26.73	32.19	-131.113	94.93	1,877.50	2,091.18	2,039.65	51.54	40.577	
8,900.00	8,891.47	8,938.55	8,904.99	27.06	32.52	-131.255	96.46	1,876.50	2,093.65	2,041.51	52.14	40.158	
9,000.00	8,991.36	9,036.27	9,002.71	27.40	32.86	-131.392	97.79	1,875.64	2,096.24	2,043.49	52.74	39.745	
9,100.00	9,091.24	9,130.84	9,097.26	27.73	33.18	-131.521	98.97	1,874.97	2,098.99	2,045.66	53.33	39.356	
9,200.00	9,191.12	9,224.16	9,190.58	28.06	33.50	-131.644	100.08	1,874.64	2,102.09	2,048.17	53.92	38.988	
9,300.00	9,291.01	9,319.67	9,286.08	28.40	33.82	-131.773	101.37	1,874.51	2,105.44	2,050.93	54.51	38.625	
9,400.00	9,390.89	9,415.28	9,381.68	28.73	34.14	-131.901	102.66	1,874.57	2,108.99	2,053.89	55.10	38.275	
9,500.00	9,490.77	9,510.92	9,477.32	29.06	34.46	-132.021	103.73	1,874.88	2,112.77	2,057.08	55.69	37.938	
9,600.00	9,590.66	9,614.76	9,581.15	29.40	34.80	-132.146	104.73	1,875.33	2,116.63	2,060.32	56.32	37.585	
9,700.00	9,690.54	9,727.05	9,693.43	29.73	35.18	-132.271	105.38	1,875.38	2,120.05	2,063.07	56.98	37.205	
9,800.00	9,790.42	9,818.24	9,784.63	30.06	35.49	-132.372	105.83	1,875.26	2,123.29	2,065.74	57.55	36.894	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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+HDMG													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	9,890.31	9,911.55	9,877.93	30.40	35.79	-132.459	105.83	1,875.71	2,127.01	2,068.89	58.12	36.598	
10,000.00	9,990.19	10,014.64	9,981.02	30.73	36.12	-132.539	105.27	1,876.41	2,130.82	2,072.10	58.72	36.287	
10,100.00	10,090.07	10,116.02	10,082.39	31.07	36.44	-132.609	104.36	1,877.00	2,134.48	2,075.16	59.32	35.985	
10,200.00	10,189.96	10,220.97	10,187.33	31.40	36.78	-132.667	102.89	1,877.59	2,137.99	2,078.06	59.93	35.677	
10,300.00	10,289.84	10,318.64	10,284.99	31.74	37.10	-132.722	101.54	1,878.09	2,141.46	2,080.96	60.51	35.393	
10,400.00	10,389.72	10,430.23	10,396.58	32.07	37.47	-132.802	100.59	1,878.23	2,144.69	2,083.53	61.16	35.069	
10,500.00	10,489.60	10,537.41	10,503.75	32.40	37.84	-132.904	100.49	1,877.68	2,147.45	2,085.65	61.81	34.745	
10,600.00	10,589.49	10,639.05	10,605.39	32.74	38.19	-133.018	101.00	1,876.82	2,150.03	2,087.58	62.44	34.433	
10,700.00	10,689.37	10,738.36	10,704.69	33.07	38.54	-133.133	101.65	1,875.93	2,152.60	2,089.53	63.07	34.132	
10,800.00	10,789.25	10,846.43	10,812.75	33.41	38.91	-133.272	102.80	1,874.76	2,155.10	2,091.36	63.74	33.812	
10,900.00	10,889.14	10,961.25	10,927.54	33.74	39.32	-133.428	104.23	1,872.73	2,156.98	2,092.53	64.44	33.470	
11,000.00	10,989.02	11,056.54	11,022.81	34.08	39.66	-133.553	105.17	1,870.82	2,158.58	2,093.52	65.06	33.177	
11,100.00	11,088.90	11,161.69	11,127.93	34.41	40.03	-133.681	105.90	1,868.86	2,160.26	2,094.54	65.72	32.869	
11,200.00	11,188.79	11,257.00	11,223.23	34.75	40.36	-133.780	105.93	1,867.25	2,161.96	2,095.63	66.33	32.592	
11,300.00	11,288.67	11,366.70	11,332.91	35.08	40.75	-133.918	106.79	1,864.95	2,163.46	2,096.45	67.02	32.282	
11,400.00	11,388.55	11,466.00	11,432.18	35.42	41.03	-134.025	107.72	1,863.29	2,165.10	2,097.53	67.57	32.044	
11,500.00	11,488.44	11,510.49	11,476.67	35.75	41.25	-134.099	108.17	1,862.87	2,168.06	2,100.03	68.03	31.868	
11,600.00	11,588.32	11,581.70	11,547.86	36.09	41.48	-134.167	108.54	1,863.80	2,172.76	2,104.25	68.51	31.714	
11,700.00	11,688.20	11,674.13	11,640.28	36.42	41.78	-134.259	109.30	1,865.69	2,178.31	2,109.22	69.09	31.530	
11,800.00	11,788.09	11,796.93	11,763.05	36.76	42.19	-134.386	110.40	1,867.69	2,183.51	2,113.69	69.81	31.277	
11,900.00	11,887.97	11,889.36	11,855.47	37.09	42.50	-134.504	111.93	1,868.35	2,188.02	2,117.61	70.41	31.076	
11,908.72	11,896.68	11,896.52	11,862.62	37.12	42.52	-134.513	112.04	1,868.44	2,188.44	2,117.99	70.46	31.061	
12,000.00	11,987.91	11,974.43	11,940.52	37.41	42.78	-134.631	113.06	1,869.69	2,192.23	2,121.29	70.94	30.904	
12,047.14	12,035.04	12,015.27	11,981.34	37.47	42.91	75.530	113.44	1,870.56	2,193.59	2,122.48	71.11	30.848	
12,100.00	12,087.91	12,064.18	12,030.24	37.47	43.07	75.531	113.71	1,871.79	2,194.95	2,123.68	71.26	30.801	
12,200.00	12,187.91	12,140.00	12,106.03	37.48	43.32	75.547	113.64	1,873.92	2,197.76	2,126.28	71.48	30.748	
12,300.00	12,287.91	12,209.17	12,175.04	37.48	43.53	75.637	110.95	1,877.43	2,201.85	2,130.23	71.62	30.741	
12,400.00	12,387.91	12,253.80	12,219.28	37.49	43.67	75.772	106.60	1,881.33	2,208.12	2,136.49	71.62	30.829	
12,500.00	12,487.91	12,292.07	12,256.70	37.50	43.78	75.959	100.49	1,886.43	2,217.21	2,145.66	71.55	30.988	
12,547.14	12,535.04	12,316.18	12,280.06	37.49	43.85	76.098	95.89	1,890.23	2,222.37	2,150.85	71.52	31.074	
12,550.00	12,537.91	12,328.00	12,291.46	37.50	43.88	-103.222	93.48	1,892.21	2,222.75	2,151.20	71.55	31.066	
12,600.00	12,587.83	12,360.35	12,322.39	37.64	43.97	-102.417	85.89	1,897.90	2,229.18	2,157.59	71.59	31.139	
12,650.00	12,637.36	12,413.88	12,372.36	37.90	44.11	-101.392	69.59	1,907.96	2,236.56	2,164.85	71.72	31.187	
12,700.00	12,686.10	12,450.30	12,405.13	38.17	44.19	-100.359	55.58	1,915.37	2,244.89	2,173.07	71.82	31.257	
12,750.00	12,733.70	12,482.54	12,432.76	38.46	44.26	-99.228	40.64	1,922.58	2,254.36	2,182.42	71.94	31.337	
12,800.00	12,779.78	12,654.93	12,558.12	38.75	44.53	-96.799	-70.06	1,961.26	2,263.76	2,192.02	71.74	31.553	
12,850.00	12,824.00	12,698.41	12,583.88	39.03	44.58	-95.456	-103.90	1,970.25	2,272.28	2,200.47	71.81	31.644	
12,900.00	12,866.02	12,831.87	12,644.33	39.31	44.66	-92.919	-219.74	1,995.60	2,280.82	2,209.41	71.41	31.938	
12,950.00	12,905.52	12,875.95	12,656.44	39.57	44.68	-91.455	-261.49	2,002.71	2,288.82	2,217.34	71.47	32.025	
13,000.00	12,942.21	12,920.00	12,663.93	39.82	44.69	-89.932	-304.39	2,009.21	2,297.04	2,225.49	71.55	32.104	
13,050.00	12,975.79	12,950.74	12,667.10	40.06	44.71	-88.584	-334.67	2,013.47	2,305.64	2,233.88	71.76	32.132	
13,100.00	13,006.02	12,969.06	12,668.62	40.27	44.72	-87.395	-352.72	2,016.22	2,314.94	2,242.86	72.08	32.114	
13,150.00	13,032.66	12,987.96	12,669.91	40.46	44.75	-86.178	-371.33	2,019.21	2,324.75	2,252.31	72.45	32.089	
13,200.00	13,055.52	13,019.00	12,671.39	40.63	44.80	-84.845	-401.89	2,024.47	2,335.01	2,262.25	72.76	32.092	
13,250.00	13,074.42	13,053.40	12,672.57	40.77	44.88	-83.543	-435.75	2,030.42	2,345.29	2,272.19	73.10	32.084	
13,300.00	13,089.21	13,134.25	12,674.97	40.89	45.08	-82.100	-515.50	2,043.45	2,354.72	2,281.52	73.20	32.166	
13,350.00	13,099.79	13,203.81	12,676.21	40.99	45.28	-80.970	-584.29	2,053.76	2,363.09	2,289.65	73.44	32.177	
13,400.00	13,106.06	13,234.90	12,676.48	41.06	45.37	-80.133	-615.04	2,058.26	2,370.75	2,296.82	73.93	32.069	
13,447.14	13,108.00	13,261.96	12,676.60	41.11	45.46	-79.435	-641.78	2,062.41	2,377.69	2,303.27	74.42	31.951	
13,500.00	13,108.00	13,303.00	12,676.59	41.15	45.60	-79.463	-682.28	2,069.08	2,385.59	2,310.66	74.93	31.837	
13,600.00	13,108.00	13,344.04	12,676.58	41.25	45.75	-79.493	-722.67	2,076.35	2,401.81	2,325.71	76.10	31.561	
13,700.00	13,108.00	13,398.00	12,676.96	41.37	45.95	-79.546	-775.57	2,086.98	2,420.05	2,342.81	77.24	31.333	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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	Offset		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
13,800.00	13,108.00	13,449.42	12,677.08	41.51	46.17	-79.595	-825.79	2,098.04	2,440.13	2,361.70	78.43	31.112	
13,900.00	13,108.00	13,504.73	12,676.21	41.67	46.42	-79.627	-879.63	2,110.67	2,461.91	2,382.30	79.62	30.922	
14,000.00	13,108.00	13,587.00	12,672.97	41.87	46.78	-79.634	-959.32	2,130.84	2,485.64	2,404.86	80.78	30.772	
14,100.00	13,108.00	14,395.58	12,641.85	42.10	51.78	-79.261	-1,752.86	2,218.43	2,504.43	2,421.63	82.80	30.246	
14,200.00	13,108.00	14,434.00	12,638.02	42.37	52.06	-79.165	-1,791.05	2,216.61	2,500.85	2,416.49	84.36	29.644	
14,300.00	13,108.00	14,479.33	12,635.49	42.69	52.41	-79.104	-1,836.29	2,215.92	2,499.59	2,413.62	85.97	29.076	
14,301.10	13,108.00	14,479.76	12,635.48	42.69	52.41	-79.103	-1,836.72	2,215.92	2,499.59	2,413.60	85.98	29.070	
14,400.00	13,108.00	14,528.00	12,636.89	43.06	52.79	-79.139	-1,884.89	2,217.41	2,500.82	2,413.22	87.60	28.548	
14,500.00	13,108.00	14,596.97	12,641.31	43.48	53.34	-79.252	-1,953.62	2,221.15	2,503.81	2,414.46	89.35	28.022	
14,600.00	13,108.00	14,655.89	12,644.30	43.97	53.82	-79.331	-2,012.36	2,224.57	2,507.73	2,416.66	91.07	27.537	
14,700.00	13,108.00	14,896.47	12,644.83	44.53	55.86	-79.368	-2,252.44	2,232.95	2,510.53	2,416.85	93.67	26.801	
14,780.75	13,108.00	14,960.36	12,641.38	45.04	56.42	-79.287	-2,316.23	2,232.72	2,510.25	2,415.09	95.17	26.377	
14,800.00	13,108.00	14,975.57	12,640.43	45.16	56.55	-79.265	-2,331.42	2,232.71	2,510.27	2,414.75	95.52	26.279	
14,900.00	13,108.00	15,145.66	12,632.90	45.87	58.07	-79.078	-2,501.29	2,230.21	2,508.42	2,410.55	97.87	25.631	
15,000.00	13,108.00	15,237.95	12,630.77	46.64	58.92	-79.019	-2,593.54	2,228.55	2,506.09	2,406.21	99.88	25.091	
15,100.00	13,108.00	15,329.19	12,629.10	47.49	59.77	-78.971	-2,684.75	2,227.02	2,503.82	2,401.90	101.92	24.567	
15,200.00	13,108.00	15,407.03	12,628.90	48.39	60.51	-78.961	-2,762.58	2,226.53	2,502.27	2,398.36	103.91	24.082	
15,300.00	13,108.00	15,484.15	12,631.67	49.36	61.27	-79.024	-2,839.64	2,227.40	2,501.69	2,395.75	105.94	23.614	
15,348.02	13,108.00	15,528.16	12,634.20	49.84	61.71	-79.083	-2,883.57	2,228.29	2,501.65	2,394.66	106.99	23.382	
15,400.00	13,108.00	15,575.01	12,637.26	50.38	62.18	-79.154	-2,930.31	2,229.39	2,501.70	2,393.57	108.12	23.138	
15,500.00	13,108.00	15,659.00	12,641.08	51.44	63.03	-79.245	-3,014.18	2,231.39	2,502.20	2,391.95	110.26	22.694	
15,600.00	13,108.00	15,728.98	12,643.45	52.54	63.75	-79.304	-3,084.09	2,233.55	2,503.63	2,391.35	112.28	22.298	
15,700.00	13,108.00	15,826.21	12,647.39	53.67	64.77	-79.406	-3,181.15	2,237.56	2,505.95	2,391.38	114.57	21.873	
15,800.00	13,108.00	15,990.09	12,651.35	54.84	66.50	-79.503	-3,344.93	2,241.15	2,506.57	2,389.11	117.45	21.341	
15,878.87	13,108.00	16,059.47	12,651.54	55.77	67.24	-79.506	-3,414.31	2,241.61	2,506.28	2,387.08	119.20	21.026	
15,900.00	13,108.00	16,072.91	12,651.47	56.02	67.38	-79.505	-3,427.76	2,241.75	2,506.31	2,386.69	119.62	20.951	
16,000.00	13,108.00	16,131.00	12,650.83	57.24	68.00	-79.492	-3,485.83	2,242.79	2,507.35	2,385.79	121.56	20.626	
16,100.00	13,108.00	16,207.86	12,649.43	58.47	68.84	-79.467	-3,562.65	2,245.07	2,509.66	2,385.98	123.68	20.292	
16,200.00	13,108.00	16,293.98	12,647.34	59.71	69.80	-79.430	-3,648.68	2,248.40	2,512.91	2,387.02	125.89	19.961	
16,300.00	13,108.00	16,430.27	12,644.74	60.97	71.32	-79.387	-3,784.84	2,253.32	2,515.88	2,387.25	128.64	19.558	
16,400.00	13,108.00	16,674.72	12,647.98	62.25	74.07	-79.449	-4,029.16	2,253.21	2,514.02	2,381.56	132.46	18.980	
16,500.00	13,108.00	16,777.37	12,647.45	63.53	75.24	-79.421	-4,131.76	2,250.40	2,510.44	2,375.54	134.90	18.610	
16,600.00	13,108.00	16,861.93	12,645.98	64.83	76.20	-79.374	-4,216.28	2,247.85	2,506.82	2,369.63	137.18	18.273	
16,700.00	13,108.00	16,944.03	12,645.39	66.13	77.15	-79.350	-4,298.35	2,246.18	2,503.96	2,364.50	139.46	17.954	
16,800.00	13,108.00	16,982.00	12,644.92	67.45	77.59	-79.335	-4,336.32	2,245.56	2,502.28	2,360.98	141.29	17.710	
16,846.51	13,108.00	17,027.65	12,644.49	68.06	78.13	-79.323	-4,381.97	2,245.43	2,501.77	2,359.34	142.43	17.564	
16,900.00	13,108.00	17,077.00	12,644.58	68.77	78.71	-79.328	-4,431.30	2,246.54	2,502.37	2,358.65	143.72	17.412	
17,000.00	13,108.00	17,125.99	12,644.36	70.10	79.29	-79.327	-4,480.26	2,248.13	2,504.10	2,358.46	145.63	17.195	
17,100.00	13,108.00	17,228.50	12,640.81	71.43	80.52	-79.254	-4,582.68	2,250.67	2,506.19	2,358.05	148.13	16.918	
17,200.00	13,108.00	17,301.10	12,637.97	72.77	81.39	-79.195	-4,655.19	2,252.63	2,508.65	2,358.37	150.28	16.693	
17,300.00	13,108.00	17,738.00	12,633.66	74.11	86.64	-79.045	-5,090.94	2,244.62	2,509.06	2,353.01	156.05	16.078	
17,400.00	13,108.00	17,832.00	12,634.09	75.46	87.76	-79.013	-5,184.53	2,236.03	2,499.01	2,340.49	158.52	15.765	
17,500.00	13,108.00	17,832.00	12,634.09	76.81	87.76	-79.013	-5,184.53	2,236.03	2,491.04	2,330.78	160.26	15.544	
17,600.00	13,108.00	17,893.55	12,635.56	78.17	88.51	-79.032	-5,246.00	2,233.29	2,485.46	2,323.00	162.46	15.299	
17,700.00	13,108.00	17,945.24	12,636.94	79.53	89.15	-79.056	-5,297.66	2,232.31	2,482.05	2,317.51	164.54	15.085	
17,800.00	13,108.00	18,021.00	12,638.29	80.89	90.09	-79.083	-5,373.40	2,232.13	2,480.38	2,313.53	166.86	14.865	
17,900.00	13,108.00	18,103.84	12,637.56	82.26	91.12	-79.063	-5,456.23	2,232.21	2,479.58	2,310.35	169.23	14.652	
17,965.79	13,108.00	18,149.06	12,636.23	83.16	91.69	-79.030	-5,501.44	2,232.16	2,479.25	2,308.59	170.66	14.527	
18,000.00	13,108.00	18,169.87	12,635.84	83.63	91.95	-79.021	-5,522.24	2,232.35	2,479.34	2,307.97	171.37	14.467	
18,100.00	13,108.00	18,210.00	12,635.51	85.00	92.45	-79.016	-5,562.36	2,233.12	2,480.82	2,307.66	173.16	14.327	
18,200.00	13,108.00	18,304.00	12,635.36	86.38	93.64	-79.026	-5,656.27	2,237.06	2,483.97	2,308.28	175.68	14.139	
18,300.00	13,108.00	18,364.54	12,634.21	87.76	94.41	-79.011	-5,716.71	2,240.37	2,488.42	2,310.72	177.70	14.004	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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	Offset	Highside Toolface (°)	Offset Wellbore Centre	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
18,400.00	13,108.00	18,435.52	12,630.75	89.14	95.32	-78.946	-5,787.50	2,244.09	2,493.58	2,313.77	179.82	13.867	
18,500.00	13,108.00	18,494.00	12,628.18	90.52	96.07	-78.904	-5,845.78	2,248.24	2,500.39	2,318.67	181.72	13.759	
18,600.00	13,108.00	18,744.17	12,632.21	91.90	99.30	-79.054	-6,095.19	2,264.22	2,505.95	2,319.15	186.80	13.415	
18,700.00	13,108.00	18,890.75	12,639.60	93.29	101.20	-79.230	-6,241.52	2,268.02	2,506.54	2,316.36	190.18	13.180	
18,725.77	13,108.00	18,910.35	12,640.52	93.65	101.46	-79.251	-6,261.09	2,268.36	2,506.50	2,315.71	190.80	13.137	
18,800.00	13,108.00	18,968.00	12,643.33	94.68	102.20	-79.317	-6,318.66	2,269.68	2,506.77	2,314.19	192.58	13.017	
18,900.00	13,108.00	19,062.44	12,647.73	96.06	103.43	-79.423	-6,412.96	2,272.24	2,507.58	2,312.35	195.23	12.844	
19,000.00	13,108.00	19,157.00	12,651.54	97.46	104.67	-79.515	-6,507.41	2,274.82	2,508.55	2,310.68	197.87	12.678	
19,100.00	13,108.00	19,241.36	12,653.11	98.85	105.77	-79.557	-6,591.72	2,277.16	2,509.95	2,309.61	200.34	12.529	
19,200.00	13,108.00	19,331.58	12,652.73	100.24	106.95	-79.555	-6,681.90	2,279.78	2,511.89	2,309.03	202.86	12.382	
19,300.00	13,108.00	19,422.83	12,652.28	101.64	108.14	-79.554	-6,773.10	2,282.74	2,514.19	2,308.79	205.40	12.240	
19,400.00	13,108.00	19,441.00	12,652.18	103.03	108.38	-79.553	-6,791.26	2,283.37	2,517.99	2,311.24	206.75	12.179	
19,500.00	13,108.00	19,532.30	12,651.61	104.43	109.59	-79.556	-6,882.43	2,288.17	2,522.43	2,313.14	209.28	12.053	
19,600.00	13,108.00	19,582.85	12,651.21	105.83	110.26	-79.562	-6,932.81	2,292.21	2,529.46	2,318.39	211.06	11.984	
19,700.00	13,108.00	19,991.94	12,639.30	107.23	115.64	-79.309	-7,340.84	2,299.44	2,528.82	2,310.67	218.15	11.592	
19,800.00	13,108.00	20,098.91	12,636.08	108.63	117.04	-79.215	-7,447.68	2,295.23	2,524.53	2,303.70	220.84	11.432	
19,900.00	13,108.00	20,212.31	12,634.79	110.03	118.53	-79.163	-7,560.97	2,290.76	2,519.89	2,296.27	223.62	11.269	
20,000.00	13,108.00	20,346.39	12,634.74	111.43	120.28	-79.127	-7,694.89	2,284.09	2,513.97	2,287.38	226.59	11.095	
20,100.00	13,108.00	20,458.04	12,635.14	112.84	121.74	-79.104	-7,806.36	2,277.83	2,507.41	2,278.06	229.35	10.933	
20,200.00	13,108.00	20,538.38	12,635.83	114.24	122.80	-79.097	-7,886.57	2,273.36	2,500.83	2,268.97	231.86	10.786	
20,300.00	13,108.00	20,603.17	12,637.36	115.65	123.65	-79.117	-7,951.29	2,270.70	2,495.41	2,261.19	234.22	10.654	
20,400.00	13,108.00	20,671.00	12,639.82	117.05	124.55	-79.164	-8,019.06	2,269.35	2,491.67	2,255.06	236.61	10.531	
20,500.00	13,108.00	20,776.13	12,643.96	118.46	125.96	-79.247	-8,124.10	2,267.91	2,488.61	2,249.18	239.44	10.394	
20,600.00	13,108.00	20,857.15	12,647.62	119.87	127.04	-79.322	-8,205.03	2,266.89	2,485.53	2,243.55	241.98	10.272	
20,700.00	13,108.00	20,912.00	12,650.39	121.28	127.78	-79.380	-8,259.80	2,266.40	2,483.14	2,238.97	244.17	10.170	
20,724.36	13,108.00	20,912.00	12,650.39	121.62	127.78	-79.380	-8,259.80	2,266.40	2,483.02	2,238.53	244.49	10.156	
20,800.00	13,108.00	20,912.00	12,650.39	122.68	127.78	-79.380	-8,259.80	2,266.40	2,484.17	2,238.81	245.36	10.124	
20,900.00	13,108.00	20,912.00	12,650.39	124.09	127.78	-79.380	-8,259.80	2,266.40	2,489.23	2,243.02	246.21	10.110 SF	
21,000.00	13,108.00	20,912.00	12,650.39	125.51	127.78	-79.380	-8,259.80	2,266.40	2,498.27	2,251.57	246.71	10.126	
21,100.00	13,108.00	20,912.00	12,650.39	126.92	127.78	-79.380	-8,259.80	2,266.40	2,511.27	2,264.41	246.86	10.173	
21,200.00	13,108.00	20,912.00	12,650.39	128.33	127.78	-79.380	-8,259.80	2,266.40	2,528.17	2,281.49	246.68	10.249	
21,300.00	13,108.00	20,912.00	12,650.39	129.74	127.78	-79.380	-8,259.80	2,266.40	2,548.87	2,302.69	246.18	10.354	
21,400.00	13,108.00	20,912.00	12,650.39	131.15	127.78	-79.380	-8,259.80	2,266.40	2,573.30	2,327.92	245.38	10.487	
21,500.00	13,108.00	20,912.00	12,650.39	132.57	127.78	-79.380	-8,259.80	2,266.40	2,601.35	2,357.04	244.30	10.648	
21,600.00	13,108.00	20,912.00	12,650.39	133.98	127.78	-79.380	-8,259.80	2,266.40	2,632.90	2,389.92	242.97	10.836	
21,700.00	13,108.00	20,912.00	12,650.39	135.39	127.78	-79.380	-8,259.80	2,266.40	2,667.82	2,426.41	241.41	11.051	
21,800.00	13,108.00	20,912.00	12,650.39	136.81	127.78	-79.380	-8,259.80	2,266.40	2,705.99	2,466.35	239.64	11.292	
21,900.00	13,108.00	20,912.00	12,650.39	138.22	127.78	-79.380	-8,259.80	2,266.40	2,747.28	2,509.58	237.69	11.558	
22,000.00	13,108.00	20,912.00	12,650.39	139.64	127.78	-79.380	-8,259.80	2,266.40	2,791.53	2,555.94	235.60	11.849	
22,100.00	13,108.00	20,912.00	12,650.39	141.06	127.78	-79.380	-8,259.80	2,266.40	2,838.62	2,605.25	233.37	12.164	
22,200.00	13,108.00	20,912.00	12,650.39	142.47	127.78	-79.380	-8,259.80	2,266.40	2,888.41	2,657.37	231.04	12.502	
22,300.00	13,108.00	20,912.00	12,650.39	143.89	127.78	-79.380	-8,259.80	2,266.40	2,940.75	2,712.13	228.63	12.863	
22,400.00	13,108.00	20,912.00	12,650.39	145.31	127.78	-79.380	-8,259.80	2,266.40	2,995.52	2,769.37	226.15	13.245	
22,500.00	13,108.00	20,912.00	12,650.39	146.72	127.78	-79.380	-8,259.80	2,266.40	3,052.59	2,828.95	223.64	13.650	
22,600.00	13,108.00	20,912.00	12,650.39	148.14	127.78	-79.380	-8,259.80	2,266.40	3,111.82	2,890.72	221.09	14.075	
22,700.00	13,108.00	20,912.00	12,650.39	149.56	127.78	-79.380	-8,259.80	2,266.40	3,173.10	2,954.56	218.54	14.520	
22,800.00	13,108.00	20,912.00	12,650.39	150.98	127.78	-79.380	-8,259.80	2,266.40	3,236.31	3,020.32	215.98	14.984	
22,900.00	13,108.00	20,912.00	12,650.39	152.40	127.78	-79.380	-8,259.80	2,266.40	3,301.33	3,087.89	213.44	15.467	
23,000.00	13,108.00	20,912.00	12,650.39	153.82	127.78	-79.380	-8,259.80	2,266.40	3,368.07	3,157.15	210.92	15.968	
23,100.00	13,108.00	20,912.00	12,650.39	155.24	127.78	-79.380	-8,259.80	2,266.40	3,436.43	3,228.00	208.43	16.487	
23,200.00	13,108.00	20,912.00	12,650.39	156.66	127.78	-79.380	-8,259.80	2,266.40	3,506.31	3,300.33	205.98	17.023	
23,247.14	13,108.00	20,912.00	12,650.39	157.33	127.78	-79.380	-8,259.80	2,266.40	3,539.74	3,334.91	204.84	17.281	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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		Highside		Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
0.00	0.00	0.00	2.00	1.00	1.00	90.108	-4.83	2,552.27	2,552.28				
100.00	100.00	102.78	104.78	1.08	1.01	90.112	-4.98	2,552.18	2,552.19	2,550.09	2.10	1,217.450	
200.00	200.00	207.02	209.02	1.60	1.07	90.122	-5.41	2,551.89	2,551.91	2,549.24	2.67	956.455	
300.00	300.00	310.84	312.84	2.01	1.25	90.131	-5.82	2,551.45	2,551.49	2,548.23	3.26	782.643	
400.00	400.00	409.67	411.66	2.35	1.49	90.146	-6.52	2,550.95	2,550.99	2,547.15	3.84	663.805	
500.00	500.00	513.13	515.12	2.65	1.78	90.156	-6.93	2,550.42	2,550.47	2,546.03	4.44	574.849	
600.00	600.00	607.78	609.77	2.93	2.07	90.172	-7.67	2,549.95	2,549.98	2,544.99	5.00	510.129	
700.00	700.00	705.55	707.53	3.18	2.38	90.196	-8.72	2,549.66	2,549.69	2,544.12	5.56	458.383	
800.00	800.00	815.29	817.26	3.41	2.75	90.216	-9.61	2,549.05	2,549.13	2,542.97	6.16	413.886	
900.00	900.00	909.02	910.99	3.64	3.06	90.228	-10.13	2,548.47	2,548.51	2,541.82	6.70	380.633	
1,000.00	1,000.00	1,002.01	1,003.97	3.85	3.38	90.241	-10.71	2,548.31	2,548.34	2,541.12	7.22	352.895	
1,100.00	1,100.00	1,107.42	1,109.39	4.05	3.74	90.262	-11.64	2,547.91	2,547.95	2,540.17	7.78	327.322	
1,169.29	1,169.29	1,167.33	1,169.29	4.18	3.94	90.275	-12.23	2,547.77	2,547.80	2,539.67	8.12	313.606 CC	
1,200.00	1,200.00	1,192.21	1,194.17	4.24	4.03	90.281	-12.48	2,547.79	2,547.83	2,539.56	8.27	308.127	
1,300.00	1,300.00	1,273.48	1,275.43	4.43	4.31	90.300	-13.34	2,548.28	2,548.43	2,539.70	8.73	291.856	
1,400.00	1,400.00	1,360.17	1,362.11	4.61	4.60	90.325	-14.48	2,549.40	2,549.72	2,540.52	9.21	276.977	
1,500.00	1,500.00	1,530.08	1,531.99	4.78	5.18	90.383	-17.03	2,550.51	2,550.77	2,540.80	9.97	255.972	
1,600.00	1,599.98	1,642.68	1,644.55	4.99	5.58	-119.809	-19.15	2,548.79	2,550.12	2,539.61	10.51	242.613	
1,600.67	1,600.65	1,643.32	1,645.19	4.99	5.58	-119.809	-19.17	2,548.78	2,550.12	2,539.61	10.51	242.551	
1,638.42	1,638.36	1,679.22	1,681.08	5.04	5.71	-119.821	-19.83	2,548.16	2,550.26	2,539.59	10.66	239.175	
1,700.00	1,699.87	1,738.00	1,739.84	5.10	5.92	-119.853	-20.88	2,547.20	2,550.74	2,539.83	10.91	233.745	
1,800.00	1,799.76	1,833.74	1,835.56	5.26	6.26	-119.904	-22.62	2,545.77	2,551.66	2,540.28	11.38	224.234	
1,900.00	1,899.64	1,928.56	1,930.36	5.44	6.59	-119.954	-24.34	2,544.52	2,552.76	2,540.90	11.86	215.239	
2,000.00	1,999.52	2,025.48	2,027.25	5.64	6.94	-120.003	-26.23	2,543.45	2,554.08	2,541.72	12.35	206.775	
2,100.00	2,099.41	2,136.89	2,138.64	5.84	7.33	-120.060	-28.31	2,542.06	2,555.26	2,542.37	12.90	198.110	
2,200.00	2,199.29	2,250.06	2,251.77	6.07	7.74	-120.123	-30.24	2,539.98	2,555.84	2,542.39	13.45	189.988	
2,300.00	2,299.17	2,344.31	2,345.99	6.30	8.07	-120.181	-31.59	2,538.08	2,556.26	2,542.32	13.94	183.333	
2,400.00	2,399.06	2,435.50	2,437.15	6.54	8.40	-120.237	-32.90	2,536.57	2,557.04	2,542.61	14.43	177.248	
2,500.00	2,498.94	2,528.73	2,530.37	6.79	8.73	-120.293	-34.31	2,535.32	2,558.12	2,543.20	14.92	171.461	
2,600.00	2,598.82	2,620.03	2,621.66	7.04	9.05	-120.349	-35.60	2,534.34	2,559.49	2,544.08	15.41	166.109	
2,700.00	2,698.71	2,709.08	2,710.69	7.31	9.37	-120.406	-36.78	2,533.73	2,561.24	2,545.35	15.89	161.173	
2,800.00	2,798.59	2,797.06	2,798.66	7.58	9.69	-120.462	-37.91	2,533.53	2,563.45	2,547.08	16.37	156.587	
2,900.00	2,898.47	2,907.45	2,909.05	7.85	10.08	-120.534	-39.31	2,533.53	2,565.92	2,548.99	16.93	151.539	
3,000.00	2,998.36	3,046.93	3,048.50	8.13	10.57	-120.626	-41.00	2,531.75	2,567.06	2,549.46	17.60	145.856	
3,100.00	3,098.24	3,134.24	3,135.80	8.41	10.89	-120.680	-42.20	2,530.28	2,567.83	2,549.75	18.08	141.994	
3,200.00	3,198.12	3,232.48	3,234.02	8.70	11.24	-120.746	-43.36	2,528.91	2,568.89	2,550.28	18.61	138.050	
3,300.00	3,298.01	3,333.26	3,334.78	8.99	11.59	-120.829	-43.82	2,527.42	2,569.87	2,550.73	19.14	134.263	
3,400.00	3,397.89	3,408.00	3,409.52	9.28	11.86	-120.894	-44.02	2,526.54	2,571.24	2,551.66	19.58	131.313	
3,500.00	3,497.77	3,486.63	3,488.14	9.58	12.13	-120.961	-44.26	2,526.34	2,573.51	2,553.48	20.03	128.481	
3,600.00	3,597.66	3,571.35	3,572.86	9.88	12.41	-121.038	-44.30	2,526.96	2,576.72	2,556.23	20.49	125.735	
3,700.00	3,697.54	3,712.19	3,713.70	10.18	12.89	-121.169	-44.26	2,527.26	2,579.45	2,558.29	21.16	121.888	
3,800.00	3,797.42	3,802.14	3,803.65	10.49	13.21	-121.242	-44.69	2,526.90	2,581.54	2,559.87	21.67	119.153	
3,900.00	3,897.31	3,897.08	3,898.59	10.79	13.55	-121.314	-45.35	2,526.77	2,583.91	2,561.72	22.19	116.451	
4,000.00	3,997.19	3,992.07	3,993.57	11.10	13.89	-121.385	-46.08	2,526.83	2,586.46	2,563.75	22.71	113.884	
4,100.00	4,097.07	4,089.11	4,090.61	11.41	14.23	-121.457	-46.83	2,527.09	2,589.23	2,565.99	23.24	111.407	
4,200.00	4,196.96	4,234.02	4,235.51	11.72	14.74	-121.557	-48.27	2,526.62	2,591.54	2,567.59	23.95	108.216	
4,300.00	4,296.84	4,333.62	4,335.08	12.03	15.10	-121.609	-50.04	2,524.94	2,592.34	2,567.84	24.49	105.840	
4,400.00	4,396.72	4,413.00	4,414.44	12.35	15.39	-121.648	-51.57	2,524.10	2,593.77	2,568.80	24.97	103.892	
4,500.00	4,496.61	4,492.16	4,493.59	12.66	15.67	-121.687	-53.05	2,523.92	2,596.03	2,570.60	25.44	102.060	
4,600.00	4,596.49	4,591.63	4,593.04	12.98	16.02	-121.740	-54.75	2,524.33	2,598.94	2,572.95	25.98	100.032	
4,700.00	4,696.37	4,709.80	4,711.18	13.29	16.44	-121.784	-57.61	2,524.05	2,601.16	2,574.56	26.60	97.801	
4,800.00	4,796.26	4,849.50	4,850.79	13.61	16.95	-121.820	-61.77	2,521.97	2,602.04	2,574.75	27.29	95.350	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 514H - OH / 68224 - Suveys (H&P 474)													Offset Site Error: 0.00 usft
Survey Program: 176-MWD+HDCM													Offset Well Error: 1.00 usft
Reference	Offset	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)			
4,900.00	4,896.14	4,922.00	4,923.25	13.93	17.21	-121.835	-64.11	2,521.08	2,603.20	2,575.46	27.74	93.838	
5,000.00	4,996.02	5,064.91	5,066.04	14.25	17.72	-121.847	-69.47	2,518.92	2,604.23	2,575.78	28.44	91.553	
5,100.00	5,095.91	5,245.97	5,246.74	14.57	18.38	-121.830	-77.90	2,511.31	2,602.37	2,573.11	29.27	88.921	
5,200.00	5,195.79	5,377.32	5,377.68	14.89	18.85	-121.818	-84.09	2,503.09	2,598.53	2,568.61	29.92	86.863	
5,300.00	5,295.67	5,470.18	5,470.21	15.21	19.19	-121.804	-88.69	2,496.75	2,594.11	2,563.66	30.44	85.213	
5,400.00	5,395.56	5,559.93	5,559.65	15.54	19.52	-121.785	-93.39	2,491.02	2,590.12	2,559.16	30.96	83.658	
5,500.00	5,495.44	5,666.79	5,666.16	15.86	19.90	-121.764	-98.91	2,484.34	2,586.28	2,554.74	31.53	82.016	
5,600.00	5,595.32	5,802.77	5,801.65	16.19	20.40	-121.773	-104.33	2,474.17	2,581.13	2,548.93	32.20	80.168	
5,700.00	5,695.21	5,881.87	5,880.48	16.51	20.68	-121.786	-107.17	2,468.28	2,576.11	2,543.42	32.68	78.816	
5,800.00	5,795.09	5,977.39	5,975.70	16.83	21.03	-121.798	-110.74	2,461.67	2,571.62	2,538.40	33.22	77.402	
5,900.00	5,894.97	6,085.57	6,083.54	17.16	21.42	-121.831	-113.93	2,453.71	2,566.70	2,532.90	33.80	75.930	
6,000.00	5,994.86	6,159.67	6,157.46	17.49	21.68	-121.881	-114.86	2,448.67	2,562.41	2,528.13	34.28	74.755	
6,100.00	6,094.74	6,244.00	6,241.64	17.81	21.98	-121.952	-115.28	2,443.66	2,558.99	2,524.21	34.78	73.569	
6,200.00	6,194.62	6,320.89	6,318.43	18.14	22.25	-122.024	-115.34	2,439.66	2,556.32	2,521.06	35.26	72.491	
6,300.00	6,294.51	6,403.08	6,400.53	18.47	22.54	-122.112	-114.91	2,435.96	2,554.39	2,518.63	35.76	71.429	
6,400.00	6,394.39	6,481.51	6,478.90	18.79	22.82	-122.201	-114.27	2,432.98	2,553.20	2,516.96	36.25	70.442	
6,479.16	6,473.46	6,541.91	6,539.28	19.05	23.03	-122.262	-114.06	2,431.19	2,552.91	2,516.29	36.62	69.711	
6,500.00	6,494.27	6,557.85	6,555.21	19.12	23.08	-122.278	-114.03	2,430.80	2,552.93	2,516.21	36.72	69.523	
6,600.00	6,594.16	6,638.62	6,635.97	19.45	23.37	-122.355	-113.94	2,429.24	2,553.57	2,516.36	37.21	68.624	
6,700.00	6,694.04	6,733.96	6,731.29	19.78	23.70	-122.448	-113.73	2,427.64	2,554.50	2,516.75	37.75	67.663	
6,800.00	6,793.92	6,811.00	6,808.32	20.11	23.96	-122.532	-113.17	2,426.94	2,556.19	2,517.97	38.22	66.875	
6,900.00	6,893.81	6,868.09	6,865.40	20.44	24.15	-122.603	-112.33	2,427.14	2,559.14	2,520.53	38.61	66.281	
7,000.00	6,993.69	6,945.54	6,942.83	20.77	24.40	-122.713	-110.51	2,428.45	2,563.49	2,524.42	39.07	65.609	
7,100.00	7,093.57	7,045.83	7,043.08	21.10	24.73	-122.853	-108.21	2,430.30	2,568.06	2,528.44	39.62	64.815	
7,200.00	7,193.46	7,149.71	7,146.91	21.43	25.07	-122.999	-105.76	2,432.20	2,572.63	2,532.45	40.19	64.015	
7,300.00	7,293.34	7,248.14	7,245.28	21.76	25.39	-123.145	-103.13	2,433.80	2,577.03	2,536.29	40.74	63.262	
7,400.00	7,393.22	7,333.70	7,330.79	22.09	25.67	-123.279	-100.46	2,435.44	2,581.77	2,540.53	41.24	62.609	
7,500.00	7,493.11	7,420.34	7,417.36	22.42	25.95	-123.413	-97.80	2,437.66	2,587.16	2,545.42	41.74	61.981	
7,600.00	7,592.99	7,517.14	7,514.08	22.75	26.27	-123.554	-95.13	2,440.44	2,592.85	2,550.56	42.29	61.314	
7,700.00	7,692.87	7,628.60	7,625.47	23.08	26.64	-123.709	-92.41	2,443.51	2,598.44	2,555.54	42.90	60.577	
7,800.00	7,792.76	7,748.08	7,744.90	23.41	27.04	-123.870	-89.75	2,445.98	2,603.33	2,559.80	43.54	59.799	
7,900.00	7,892.64	7,848.76	7,845.53	23.74	27.37	-124.005	-87.52	2,447.65	2,607.83	2,563.73	44.10	59.132	
8,000.00	7,992.52	7,969.15	7,965.89	24.07	27.77	-124.158	-85.26	2,449.18	2,611.94	2,567.19	44.75	58.372	
8,100.00	8,092.41	8,084.75	8,081.47	24.40	28.16	-124.310	-82.90	2,449.86	2,615.39	2,570.02	45.38	57.638	
8,200.00	8,192.29	8,197.30	8,193.99	24.74	28.54	-124.456	-80.73	2,449.86	2,618.26	2,572.26	46.00	56.924	
8,300.00	8,292.17	8,302.88	8,299.57	25.07	28.90	-124.584	-79.08	2,449.53	2,620.81	2,574.22	46.59	56.253	
8,400.00	8,392.06	8,399.86	8,396.53	25.40	29.23	-124.698	-77.74	2,449.18	2,623.30	2,576.15	47.15	55.635	
8,500.00	8,491.94	8,503.36	8,500.02	25.73	29.58	-124.815	-76.53	2,448.86	2,625.85	2,578.11	47.74	55.004	
8,600.00	8,591.82	8,596.26	8,592.92	26.07	29.90	-124.917	-75.53	2,448.60	2,628.41	2,580.12	48.29	54.433	
8,700.00	8,691.71	8,686.82	8,683.47	26.40	30.20	-125.016	-74.56	2,448.63	2,631.32	2,582.49	48.83	53.893	
8,800.00	8,791.59	8,782.49	8,779.13	26.73	30.53	-125.118	-73.66	2,448.95	2,634.50	2,585.12	49.38	53.350	
8,900.00	8,891.47	8,878.97	8,875.61	27.06	30.85	-125.219	-72.75	2,449.39	2,637.82	2,587.88	49.94	52.817	
9,000.00	8,991.36	8,973.10	8,969.73	27.40	31.17	-125.321	-71.70	2,449.96	2,641.32	2,590.82	50.50	52.308	
9,100.00	9,091.24	9,066.87	9,063.50	27.73	31.49	-125.426	-70.49	2,450.73	2,645.05	2,594.00	51.05	51.814	
9,200.00	9,191.12	9,169.69	9,166.30	28.06	31.84	-125.539	-69.23	2,451.66	2,648.87	2,597.23	51.64	51.296	
9,300.00	9,291.01	9,280.72	9,277.32	28.40	32.22	-125.659	-67.96	2,452.32	2,652.38	2,600.12	52.26	50.751	
9,400.00	9,390.89	9,378.26	9,374.85	28.73	32.55	-125.766	-66.81	2,452.75	2,655.76	2,602.93	52.83	50.265	
9,500.00	9,490.77	9,476.74	9,473.32	29.06	32.88	-125.872	-65.66	2,453.28	2,659.23	2,605.82	53.41	49.787	
9,600.00	9,590.66	9,585.39	9,581.97	29.40	33.26	-125.987	-64.53	2,453.79	2,662.65	2,608.62	54.03	49.281	
9,700.00	9,690.54	9,707.89	9,704.46	29.73	33.68	-126.106	-63.80	2,453.57	2,665.37	2,610.67	54.70	48.724	
9,800.00	9,790.42	9,807.93	9,804.50	30.06	34.03	-126.190	-63.85	2,452.95	2,667.60	2,612.31	55.29	48.244	
9,900.00	9,890.31	9,913.63	9,910.21	30.40	34.41	-126.271	-64.28	2,452.38	2,669.88	2,613.98	55.91	47.757	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com - 514H - OH / 68224 - Suveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 176-MWD+HDCM												Offset Well Error:	1.00 usft
Rule Assigned:												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	9,990.19	10,019.69	10,016.25	30.73	34.78	-126.344	-65.10	2,451.54	2,671.87	2,615.36	56.52	47.275	
10,100.00	10,090.07	10,116.64	10,113.20	31.07	35.13	-126.407	-66.01	2,450.75	2,673.83	2,616.73	57.10	46.831	
10,200.00	10,189.96	10,241.63	10,238.17	31.40	35.57	-126.500	-66.71	2,449.13	2,675.35	2,617.56	57.78	46.301	
10,300.00	10,289.84	10,352.79	10,349.30	31.74	35.96	-126.603	-66.47	2,446.75	2,676.11	2,617.69	58.42	45.808	
10,400.00	10,389.72	10,449.17	10,445.66	32.07	36.30	-126.694	-66.21	2,444.60	2,676.81	2,617.80	59.00	45.367	
10,500.00	10,489.60	10,559.40	10,555.87	32.40	36.69	-126.803	-65.63	2,442.15	2,677.57	2,617.93	59.64	44.895	
10,600.00	10,589.49	10,656.77	10,653.20	32.74	37.04	-126.886	-65.82	2,439.68	2,677.92	2,617.69	60.23	44.462	
10,700.00	10,689.37	10,754.20	10,750.61	33.07	37.38	-126.947	-67.00	2,437.57	2,678.53	2,617.72	60.81	44.046	
10,800.00	10,789.25	10,869.03	10,865.39	33.41	37.79	-127.002	-69.19	2,434.93	2,678.93	2,617.48	61.45	43.592	
10,900.00	10,889.14	10,942.33	10,938.65	33.74	38.05	-127.035	-70.67	2,433.36	2,679.48	2,617.54	61.95	43.255	
11,000.00	10,989.02	11,025.49	11,021.79	34.08	38.35	-127.074	-72.18	2,432.32	2,680.92	2,618.45	62.47	42.913	
11,100.00	11,088.90	11,119.56	11,115.84	34.41	38.68	-127.126	-73.48	2,431.47	2,682.77	2,619.72	63.04	42.554	
11,200.00	11,188.79	11,218.19	11,214.46	34.75	39.03	-127.182	-74.77	2,430.66	2,684.71	2,621.08	63.63	42.192	
11,300.00	11,288.67	11,326.19	11,322.45	35.08	39.42	-127.233	-76.65	2,429.74	2,686.58	2,622.33	64.25	41.813	
11,400.00	11,388.55	11,421.13	11,417.36	35.42	39.76	-127.275	-78.45	2,428.79	2,688.29	2,623.46	64.82	41.471	
11,500.00	11,488.44	11,506.36	11,502.56	35.75	40.06	-127.303	-80.51	2,428.34	2,690.39	2,625.04	65.35	41.167	
11,600.00	11,588.32	11,607.87	11,604.03	36.09	40.42	-127.323	-83.48	2,428.25	2,692.87	2,626.93	65.94	40.838	
11,700.00	11,688.20	11,718.63	11,714.74	36.42	40.81	-127.339	-87.05	2,427.83	2,695.02	2,628.46	66.56	40.491	
11,800.00	11,788.09	11,825.22	11,821.24	36.76	41.19	-127.341	-91.19	2,427.13	2,696.82	2,629.66	67.16	40.156	
11,900.00	11,887.97	11,910.00	11,905.95	37.09	41.49	-127.339	-94.63	2,426.64	2,698.69	2,631.01	67.68	39.873	
11,908.72	11,896.68	11,923.51	11,919.45	37.12	41.53	-127.339	-95.16	2,426.59	2,698.87	2,631.12	67.75	39.835	
12,000.00	11,987.91	12,004.00	11,999.88	37.41	41.82	-127.339	-98.15	2,426.47	2,700.10	2,631.88	68.22	39.582	
12,047.14	12,035.04	12,053.21	12,049.06	37.47	41.99	82.880	-99.85	2,426.46	2,700.12	2,631.71	68.42	39.466	
12,100.00	12,087.91	12,110.49	12,106.31	37.47	42.20	82.920	-101.78	2,426.35	2,699.80	2,631.20	68.60	39.355	
12,200.00	12,187.91	12,209.13	12,204.90	37.48	42.54	82.985	-104.91	2,425.99	2,699.04	2,630.11	68.93	39.155	
12,300.00	12,287.91	12,294.55	12,290.30	37.48	42.85	83.026	-106.85	2,425.91	2,698.69	2,629.46	69.22	38.986	
12,400.00	12,387.91	12,400.96	12,396.69	37.49	43.22	83.060	-108.44	2,426.04	2,698.64	2,629.04	69.60	38.776	
12,500.00	12,487.91	12,604.85	12,596.17	37.50	43.94	83.807	-143.75	2,427.04	2,697.75	2,627.66	70.09	38.492	
12,547.14	12,535.04	12,643.89	12,632.12	37.49	44.08	84.128	-158.90	2,427.04	2,695.73	2,625.62	70.11	38.452	
12,550.00	12,537.91	12,644.98	12,633.10	37.50	44.08	-95.297	-159.36	2,427.05	2,695.62	2,625.52	70.11	38.450	
12,600.00	12,587.83	12,660.00	12,646.61	37.64	44.14	-95.292	-165.92	2,427.30	2,694.39	2,624.24	70.16	38.406	
12,646.79	12,634.19	12,676.38	12,661.21	37.88	44.19	-95.194	-173.34	2,427.79	2,694.18	2,623.94	70.24	38.354	
12,650.00	12,637.36	12,677.31	12,662.03	37.90	44.20	-95.186	-173.77	2,427.82	2,694.21	2,623.95	70.25	38.351	
12,700.00	12,686.10	12,707.00	12,688.19	38.17	44.30	-94.943	-187.73	2,429.36	2,695.23	2,624.84	70.39	38.288	
12,750.00	12,733.70	12,707.00	12,688.19	38.46	44.30	-94.765	-187.73	2,429.36	2,697.02	2,626.44	70.57	38.217	
12,800.00	12,779.78	12,738.11	12,715.22	38.75	44.41	-94.407	-202.98	2,431.54	2,699.81	2,629.01	70.80	38.133	
12,850.00	12,824.00	12,769.99	12,742.55	39.03	44.51	-94.022	-219.20	2,434.04	2,703.27	2,632.20	71.07	38.037	
12,900.00	12,866.02	12,802.00	12,769.60	39.31	44.63	-93.617	-236.09	2,436.81	2,707.37	2,635.99	71.38	37.929	
12,950.00	12,905.52	13,053.62	12,937.10	39.57	45.49	-92.430	-419.46	2,453.38	2,709.22	2,637.91	71.30	37.995	
13,000.00	12,942.21	13,095.44	12,956.58	39.82	45.63	-92.013	-456.41	2,455.26	2,710.44	2,638.85	71.59	37.859	
13,050.00	12,975.79	13,138.98	12,973.73	40.06	45.78	-91.558	-496.35	2,457.38	2,711.98	2,640.08	71.91	37.716	
13,100.00	13,006.02	13,181.69	12,987.00	40.27	45.93	-91.079	-536.87	2,459.59	2,713.82	2,641.57	72.25	37.560	
13,150.00	13,032.66	13,227.00	12,996.22	40.46	46.08	-90.536	-581.14	2,461.93	2,715.81	2,643.20	72.61	37.402	
13,200.00	13,055.52	13,247.58	12,998.66	40.63	46.14	-90.138	-601.54	2,463.10	2,718.24	2,645.15	73.10	37.188	
13,250.00	13,074.42	13,275.00	13,000.60	40.77	46.23	-89.659	-628.81	2,465.06	2,721.37	2,647.79	73.58	36.985	
13,300.00	13,089.21	13,292.38	13,001.33	40.89	46.29	-89.217	-646.13	2,466.45	2,724.94	2,650.81	74.14	36.756	
13,350.00	13,099.79	13,337.19	13,003.06	40.99	46.44	-88.677	-690.76	2,470.09	2,728.72	2,654.10	74.61	36.572	
13,400.00	13,106.06	13,370.00	13,004.17	41.06	46.54	-88.226	-723.43	2,472.79	2,732.52	2,657.36	75.16	36.358	
13,447.14	13,108.00	13,414.26	13,004.98	41.11	46.71	-87.836	-767.52	2,476.57	2,736.11	2,660.45	75.66	36.164	
13,500.00	13,108.00	13,452.69	13,004.70	41.15	46.86	-87.832	-805.79	2,480.04	2,740.36	2,664.09	76.27	35.930	
13,600.00	13,108.00	13,522.10	13,002.06	41.25	47.13	-87.782	-874.83	2,486.73	2,749.16	2,671.69	77.47	35.487	
13,700.00	13,108.00	13,967.74	12,986.96	41.37	49.34	-87.481	-1,319.20	2,508.01	2,755.81	2,677.45	78.36	35.166	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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+HJGM		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
13,800.00	13,108.00	14,040.31	12,986.84	41.51	49.76	-87.477	-1,391.76	2,506.83	2,753.18	2,673.32	79.86	34.474			
13,900.00	13,108.00	14,126.10	12,987.59	41.67	50.28	-87.491	-1,477.54	2,506.17	2,751.36	2,669.95	81.41	33.795			
14,000.00	13,108.00	14,206.16	12,987.94	41.87	50.79	-87.498	-1,557.60	2,505.90	2,750.02	2,667.01	83.01	33.128			
14,090.19	13,108.00	14,269.79	12,988.50	42.08	51.21	-87.509	-1,621.22	2,506.26	2,749.60	2,665.13	84.48	32.549			
14,100.00	13,108.00	14,275.90	12,988.57	42.10	51.25	-87.511	-1,627.33	2,506.33	2,749.62	2,664.98	84.64	32.488			
14,200.00	13,108.00	14,346.00	12,989.65	42.37	51.73	-87.534	-1,697.41	2,507.76	2,750.52	2,664.22	86.29	31.874			
14,300.00	13,108.00	14,390.90	12,990.56	42.69	52.05	-87.554	-1,742.26	2,509.38	2,752.90	2,664.98	87.92	31.312			
14,400.00	13,108.00	14,602.52	12,989.40	43.06	53.63	-87.533	-1,953.69	2,515.82	2,755.87	2,665.78	90.09	30.591			
14,500.00	13,108.00	14,702.49	12,985.30	43.48	54.41	-87.447	-2,053.57	2,515.67	2,754.89	2,662.91	91.98	29.951			
14,580.93	13,108.00	14,762.50	12,983.61	43.87	54.90	-87.412	-2,113.56	2,515.93	2,754.54	2,661.08	93.46	29.472			
14,600.00	13,108.00	14,775.68	12,983.32	43.97	55.00	-87.406	-2,126.73	2,516.06	2,754.56	2,660.75	93.81	29.363			
14,700.00	13,108.00	14,857.17	12,982.03	44.53	55.68	-87.379	-2,208.20	2,517.41	2,755.25	2,659.55	95.70	28.790			
14,800.00	13,108.00	14,961.51	12,979.85	45.16	56.56	-87.335	-2,312.50	2,519.24	2,756.10	2,658.37	97.73	28.201			
14,900.00	13,108.00	15,068.90	12,978.95	45.87	57.51	-87.317	-2,419.87	2,520.90	2,756.68	2,656.85	99.83	27.613			
15,000.00	13,108.00	15,174.81	12,979.22	46.64	58.46	-87.323	-2,525.78	2,522.35	2,757.03	2,655.07	101.96	27.041			
15,100.00	13,108.00	15,253.15	12,979.86	47.49	59.17	-87.336	-2,604.10	2,523.58	2,757.58	2,653.62	103.96	26.526			
15,200.00	13,108.00	15,330.52	12,980.00	48.39	59.89	-87.341	-2,681.45	2,525.53	2,759.07	2,653.10	105.97	26.037			
15,300.00	13,108.00	15,420.24	12,979.00	49.36	60.75	-87.322	-2,771.12	2,528.29	2,761.19	2,653.11	108.07	25.549			
15,400.00	13,108.00	15,509.94	12,979.17	50.38	61.61	-87.327	-2,860.77	2,531.24	2,763.48	2,653.27	110.21	25.075			
15,500.00	13,108.00	15,588.81	12,979.71	51.44	62.39	-87.341	-2,939.57	2,534.47	2,766.52	2,654.23	112.28	24.639			
15,600.00	13,108.00	15,690.40	12,979.89	52.54	63.41	-87.348	-3,041.06	2,538.92	2,769.88	2,655.32	114.56	24.179			
15,700.00	13,108.00	15,792.38	12,979.07	53.67	64.44	-87.334	-3,142.95	2,543.15	2,773.06	2,656.20	116.85	23.731			
15,800.00	13,108.00	15,881.33	12,977.66	54.84	65.36	-87.308	-3,231.81	2,547.02	2,776.48	2,657.41	119.06	23.319			
15,900.00	13,108.00	15,969.14	12,976.21	56.02	66.28	-87.281	-3,319.50	2,551.20	2,780.31	2,659.03	121.28	22.925			
16,000.00	13,108.00	16,135.05	12,972.40	57.24	68.05	-87.208	-3,485.19	2,558.66	2,784.39	2,660.16	124.23	22.414			
16,100.00	13,108.00	16,317.87	12,970.86	58.47	70.03	-87.176	-3,668.00	2,560.01	2,783.81	2,656.48	127.33	21.862			
16,200.00	13,108.00	16,457.00	12,972.19	59.71	71.56	-87.200	-3,807.09	2,558.26	2,781.37	2,651.29	130.09	21.381			
16,300.00	13,108.00	16,561.76	12,977.07	60.97	72.73	-87.298	-3,911.73	2,556.98	2,778.95	2,646.36	132.59	20.959			
16,400.00	13,108.00	16,687.99	12,979.10	62.25	74.15	-87.336	-4,037.90	2,553.87	2,775.35	2,640.08	135.27	20.517			
16,500.00	13,108.00	16,781.50	12,979.83	63.53	75.21	-87.348	-4,131.37	2,551.36	2,771.63	2,633.95	137.68	20.131			
16,600.00	13,108.00	16,874.51	12,979.27	64.83	76.27	-87.333	-4,224.35	2,549.06	2,768.19	2,628.09	140.10	19.759			
16,700.00	13,108.00	17,093.02	12,972.66	66.13	78.79	-87.184	-4,442.52	2,539.17	2,762.90	2,619.36	143.53	19.249			
16,800.00	13,108.00	17,125.77	12,971.98	67.45	79.17	-87.168	-4,475.21	2,537.52	2,756.66	2,611.15	145.51	18.945			
16,900.00	13,108.00	17,178.00	12,971.75	68.77	79.78	-87.161	-4,527.42	2,536.04	2,752.61	2,605.01	147.60	18.649			
17,000.00	13,108.00	17,207.91	12,971.87	70.10	80.14	-87.163	-4,557.33	2,535.85	2,750.59	2,601.13	149.46	18.404			
17,042.21	13,108.00	17,225.34	12,971.89	70.66	80.34	-87.163	-4,574.76	2,535.94	2,750.40	2,600.13	150.27	18.303			
17,100.00	13,108.00	17,273.00	12,971.74	71.43	80.91	-87.161	-4,622.41	2,537.00	2,751.00	2,599.38	151.62	18.144			
17,200.00	13,108.00	17,295.43	12,971.65	72.77	81.18	-87.160	-4,644.82	2,537.86	2,753.02	2,599.73	153.28	17.960			
17,300.00	13,108.00	17,367.00	12,972.08	74.11	82.03	-87.172	-4,716.28	2,541.71	2,757.18	2,601.69	155.49	17.732			
17,400.00	13,108.00	17,603.03	12,973.41	75.46	84.89	-87.203	-4,952.17	2,548.00	2,758.65	2,599.00	159.65	17.279			
17,500.00	13,108.00	17,718.33	12,973.52	76.81	86.29	-87.205	-5,067.47	2,548.32	2,757.96	2,595.57	162.39	16.983			
17,594.95	13,108.00	17,778.27	12,972.87	78.10	87.02	-87.191	-5,127.40	2,548.25	2,757.10	2,592.63	164.47	16.764			
17,600.00	13,108.00	17,780.48	12,972.84	78.17	87.05	-87.190	-5,129.62	2,548.27	2,757.10	2,592.54	164.56	16.754			
17,700.00	13,108.00	17,838.00	12,972.11	79.53	87.75	-87.176	-5,187.11	2,549.64	2,758.30	2,591.64	166.66	16.551			
17,800.00	13,108.00	17,877.36	12,971.99	80.89	88.24	-87.175	-5,226.44	2,551.34	2,761.26	2,592.77	168.49	16.388			
17,900.00	13,108.00	18,031.21	12,976.73	82.26	90.16	-87.279	-5,380.00	2,559.19	2,765.79	2,593.96	171.83	16.096			
18,000.00	13,108.00	18,151.84	12,981.39	83.63	91.67	-87.377	-5,500.50	2,562.10	2,766.96	2,592.23	174.74	15.835			
18,100.00	13,108.00	18,226.80	12,983.55	85.00	92.61	-87.423	-5,575.40	2,564.18	2,768.60	2,591.53	177.07	15.636			
18,200.00	13,108.00	18,358.86	12,987.01	86.38	94.28	-87.497	-5,707.35	2,568.27	2,770.73	2,590.60	180.13	15.382			
18,300.00	13,108.00	18,500.87	12,988.01	87.76	96.07	-87.518	-5,849.35	2,569.34	2,770.27	2,587.00	183.28	15.115			
18,400.00	13,108.00	18,612.50	12,987.86	89.14	97.48	-87.514	-5,960.98	2,569.52	2,769.44	2,583.38	186.06	14.885			
18,500.00	13,108.00	18,754.61	12,987.35	90.52	99.29	-87.501	-6,103.08	2,568.38	2,767.65	2,578.47	189.18	14.630			

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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					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		
18,600.00	13,108.00	18,836.29	12,987.20	91.90	100.33	-87.496	-6,184.74	2,566.94	2,764.99	2,573.35	191.63	14.428		
18,700.00	13,108.00	18,914.32	12,987.55	93.29	101.32	-87.502	-6,262.77	2,567.01	2,763.93	2,569.88	194.05	14.243		
18,800.00	13,108.00	19,082.72	12,983.62	94.68	103.48	-87.417	-6,431.09	2,564.28	2,761.29	2,563.84	197.45	13.985		
18,900.00	13,108.00	19,179.72	12,979.60	96.06	104.73	-87.330	-6,527.97	2,561.75	2,757.87	2,557.79	200.08	13.784		
19,000.00	13,108.00	19,272.91	12,977.76	97.46	105.93	-87.288	-6,621.10	2,559.36	2,754.41	2,551.73	202.68	13.590		
19,100.00	13,108.00	19,351.00	12,977.28	98.85	106.93	-87.277	-6,699.19	2,558.16	2,751.83	2,546.71	205.12	13.416		
19,200.00	13,108.00	19,414.35	12,976.98	100.24	107.76	-87.269	-6,762.54	2,557.87	2,750.26	2,542.88	207.39	13.262		
19,300.00	13,108.00	19,518.90	12,977.33	101.64	109.12	-87.276	-6,867.08	2,557.91	2,749.29	2,539.15	210.14	13.083		
19,400.00	13,108.00	19,606.25	12,979.62	103.03	110.26	-87.322	-6,954.40	2,557.88	2,748.15	2,535.45	212.70	12.920		
19,500.00	13,108.00	19,741.69	12,982.03	104.43	112.03	-87.371	-7,089.81	2,557.76	2,747.07	2,531.23	215.84	12.727		
19,596.14	13,108.00	19,780.48	12,981.91	105.77	112.54	-87.368	-7,128.60	2,557.90	2,746.24	2,528.49	217.75	12.612		
19,600.00	13,108.00	19,782.40	12,981.90	105.83	112.57	-87.368	-7,130.51	2,557.92	2,746.24	2,528.41	217.83	12.607		
19,700.00	13,108.00	19,837.95	12,981.25	107.23	113.30	-87.355	-7,186.06	2,559.03	2,747.21	2,527.28	219.93	12.491		
19,800.00	13,108.00	19,919.00	12,980.59	108.63	114.37	-87.343	-7,267.07	2,561.37	2,749.15	2,526.78	222.37	12.363		
19,900.00	13,108.00	20,013.00	12,979.96	110.03	115.61	-87.332	-7,361.01	2,564.54	2,751.55	2,526.54	225.00	12.229		
20,000.00	13,108.00	20,122.94	12,978.48	111.43	117.07	-87.304	-7,470.88	2,568.19	2,753.92	2,526.05	227.87	12.085		
20,100.00	13,108.00	20,224.68	12,976.05	112.84	118.42	-87.255	-7,572.54	2,571.52	2,756.31	2,525.69	230.61	11.952		
20,200.00	13,108.00	20,354.32	12,974.28	114.24	120.15	-87.220	-7,702.13	2,574.46	2,757.54	2,523.78	233.76	11.796		
20,300.00	13,108.00	20,452.64	12,972.99	115.65	121.46	-87.195	-7,800.41	2,576.52	2,758.70	2,522.23	236.47	11.666		
20,400.00	13,108.00	20,602.68	12,968.66	117.05	123.46	-87.105	-7,950.38	2,578.52	2,759.28	2,519.43	239.86	11.504		
20,500.00	13,108.00	20,737.07	12,964.48	118.46	125.25	-87.016	-8,084.69	2,577.48	2,757.54	2,514.55	242.99	11.348		
20,600.00	13,108.00	20,834.99	12,961.81	119.87	126.56	-86.959	-8,182.57	2,576.51	2,755.70	2,510.01	245.69	11.216		
20,700.00	13,108.00	20,918.00	12,960.06	121.28	127.67	-86.920	-8,265.56	2,575.74	2,753.93	2,505.72	248.22	11.095		
20,733.22	13,108.00	20,918.00	12,960.06	121.74	127.67	-86.920	-8,265.56	2,575.74	2,753.73	2,505.04	248.69	11.073		
20,800.00	13,108.00	20,918.00	12,960.06	122.68	127.67	-86.920	-8,265.56	2,575.74	2,754.54	2,504.98	249.56	11.037 ES		
20,900.00	13,108.00	20,918.00	12,960.06	124.09	127.67	-86.920	-8,265.56	2,575.74	2,758.78	2,508.16	250.62	11.008		
21,000.00	13,108.00	20,918.00	12,960.06	125.51	127.67	-86.920	-8,265.56	2,575.74	2,766.63	2,515.24	251.39	11.006 SF		
21,100.00	13,108.00	20,918.00	12,960.06	126.92	127.67	-86.920	-8,265.56	2,575.74	2,778.05	2,526.19	251.86	11.030		
21,200.00	13,108.00	20,918.00	12,960.06	128.33	127.67	-86.920	-8,265.56	2,575.74	2,793.01	2,540.96	252.05	11.081		
21,300.00	13,108.00	20,918.00	12,960.06	129.74	127.67	-86.920	-8,265.56	2,575.74	2,811.46	2,559.49	251.97	11.158		
21,400.00	13,108.00	20,918.00	12,960.06	131.15	127.67	-86.920	-8,265.56	2,575.74	2,833.31	2,581.69	251.62	11.260		
21,500.00	13,108.00	20,918.00	12,960.06	132.57	127.67	-86.920	-8,265.56	2,575.74	2,858.50	2,607.47	251.02	11.387		
21,600.00	13,108.00	20,918.00	12,960.06	133.98	127.67	-86.920	-8,265.56	2,575.74	2,886.93	2,636.74	250.19	11.539		
21,700.00	13,108.00	20,918.00	12,960.06	135.39	127.67	-86.920	-8,265.56	2,575.74	2,918.51	2,669.37	249.14	11.714		
21,800.00	13,108.00	20,918.00	12,960.06	136.81	127.67	-86.920	-8,265.56	2,575.74	2,953.14	2,705.25	247.89	11.913		
21,900.00	13,108.00	20,918.00	12,960.06	138.22	127.67	-86.920	-8,265.56	2,575.74	2,990.72	2,744.26	246.46	12.135		
22,000.00	13,108.00	20,918.00	12,960.06	139.64	127.67	-86.920	-8,265.56	2,575.74	3,031.13	2,786.26	244.87	12.378		
22,100.00	13,108.00	20,918.00	12,960.06	141.06	127.67	-86.920	-8,265.56	2,575.74	3,074.27	2,831.12	243.15	12.644		
22,200.00	13,108.00	20,918.00	12,960.06	142.47	127.67	-86.920	-8,265.56	2,575.74	3,120.01	2,878.72	241.30	12.930		
22,300.00	13,108.00	20,918.00	12,960.06	143.89	127.67	-86.920	-8,265.56	2,575.74	3,168.26	2,928.91	239.34	13.237		
22,400.00	13,108.00	20,918.00	12,960.06	145.31	127.67	-86.920	-8,265.56	2,575.74	3,218.88	2,981.58	237.31	13.564		
22,500.00	13,108.00	20,918.00	12,960.06	146.72	127.67	-86.920	-8,265.56	2,575.74	3,271.78	3,036.58	235.20	13.911		
22,600.00	13,108.00	20,918.00	12,960.06	148.14	127.67	-86.920	-8,265.56	2,575.74	3,326.85	3,093.81	233.03	14.276		
22,700.00	13,108.00	20,918.00	12,960.06	149.56	127.67	-86.920	-8,265.56	2,575.74	3,383.97	3,153.14	230.83	14.660		
22,800.00	13,108.00	20,918.00	12,960.06	150.98	127.67	-86.920	-8,265.56	2,575.74	3,443.05	3,214.46	228.59	15.062		
22,900.00	13,108.00	20,918.00	12,960.06	152.40	127.67	-86.920	-8,265.56	2,575.74	3,503.99	3,277.65	226.34	15.481		
23,000.00	13,108.00	20,918.00	12,960.06	153.82	127.67	-86.920	-8,265.56	2,575.74	3,566.70	3,342.62	224.08	15.917		
23,100.00	13,108.00	20,918.00	12,960.06	155.24	127.67	-86.920	-8,265.56	2,575.74	3,631.07	3,409.25	221.82	16.369		
23,200.00	13,108.00	20,918.00	12,960.06	156.66	127.67	-86.920	-8,265.56	2,575.74	3,697.03	3,477.45	219.58	16.837		
23,247.14	13,108.00	20,918.00	12,960.06	157.33	127.67	-86.920	-8,265.56	2,575.74	3,728.65	3,510.12	218.52	17.063		

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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	0.00	1.00	1.00	-90.535	-0.28	-30.01	30.01				
100.00	100.00	100.00	100.00	1.08	1.08	-90.535	-0.28	-30.01	30.01	27.84	2.17	13.841	
200.00	200.00	200.00	200.00	1.60	1.60	-90.535	-0.28	-30.01	30.01	26.81	3.20	9.387	
300.00	300.00	300.00	300.00	2.01	2.01	-90.535	-0.28	-30.01	30.01	25.99	4.02	7.467	
400.00	400.00	400.00	400.00	2.35	2.35	-90.535	-0.28	-30.01	30.01	25.31	4.71	6.378	
500.00	500.00	500.00	500.00	2.65	2.65	-90.535	-0.28	-30.01	30.01	24.70	5.31	5.654	
600.00	600.00	600.00	600.00	2.93	2.93	-90.535	-0.28	-30.01	30.01	24.16	5.85	5.127	
700.00	700.00	700.00	700.00	3.18	3.18	-90.535	-0.28	-30.01	30.01	23.65	6.36	4.721	
800.00	800.00	800.00	800.00	3.41	3.41	-90.535	-0.28	-30.01	30.01	23.18	6.83	4.396	
900.00	900.00	900.00	900.00	3.64	3.64	-90.535	-0.28	-30.01	30.01	22.74	7.27	4.128	
1,000.00	1,000.00	1,000.00	1,000.00	3.85	3.85	-90.535	-0.28	-30.01	30.01	22.32	7.69	3.902	
1,100.00	1,100.00	1,100.00	1,100.00	4.05	4.05	-90.535	-0.28	-30.01	30.01	21.92	8.09	3.708	
1,200.00	1,200.00	1,200.00	1,200.00	4.24	4.24	-90.535	-0.28	-30.01	30.01	21.53	8.48	3.538	
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	-90.535	-0.28	-30.01	30.01	21.16	8.85	3.389	
1,400.00	1,400.00	1,400.00	1,400.00	4.61	4.61	-90.535	-0.28	-30.01	30.01	20.80	9.21	3.257	
1,500.00	1,500.00	1,500.00	1,500.00	4.78	4.78	-90.535	-0.28	-30.01	30.01	20.45	9.56	3.138 CC, ES	
1,600.00	1,599.98	1,599.00	1,598.99	4.99	5.03	60.995	-0.85	-31.62	30.77	20.81	9.95	3.091	
1,638.42	1,638.36	1,637.09	1,637.04	5.04	5.07	62.504	-1.37	-33.09	31.48	21.47	10.01	3.145	
1,700.00	1,699.87	1,698.64	1,698.53	5.10	5.14	65.279	-2.30	-35.72	32.73	22.62	10.11	3.238	
1,800.00	1,799.76	1,798.59	1,798.37	5.26	5.31	69.344	-3.81	-40.00	34.91	24.54	10.37	3.366	
1,900.00	1,899.64	1,898.54	1,898.22	5.44	5.49	72.916	-5.32	-44.27	37.24	26.58	10.66	3.492	
2,000.00	1,999.52	1,998.49	1,998.06	5.64	5.69	76.056	-6.83	-48.54	39.70	28.74	10.96	3.623	
2,100.00	2,099.41	2,098.43	2,097.91	5.84	5.91	78.823	-8.34	-52.81	42.27	31.01	11.26	3.755	
2,200.00	2,199.29	2,198.38	2,197.75	6.07	6.13	81.268	-9.85	-57.08	44.92	33.37	11.55	3.888	
2,300.00	2,299.17	2,298.33	2,297.60	6.30	6.37	83.437	-11.36	-61.35	47.65	35.80	11.85	4.021	
2,400.00	2,399.06	2,398.28	2,397.44	6.54	6.61	85.368	-12.87	-65.63	50.44	38.29	12.15	4.153	
2,500.00	2,498.94	2,498.22	2,497.29	6.79	6.86	87.096	-14.38	-69.90	53.28	40.84	12.44	4.283	
2,600.00	2,598.82	2,598.17	2,597.13	7.04	7.11	88.648	-15.89	-74.17	56.16	43.43	12.73	4.410	
2,700.00	2,698.71	2,698.12	2,696.98	7.31	7.38	90.047	-17.40	-78.44	59.08	46.05	13.03	4.536	
2,800.00	2,798.59	2,798.07	2,796.82	7.58	7.64	91.314	-18.91	-82.71	62.03	48.71	13.32	4.658	
2,900.00	2,898.47	2,898.01	2,896.67	7.85	7.92	92.465	-20.42	-86.98	65.01	51.40	13.61	4.777	
3,000.00	2,998.36	2,997.96	2,996.51	8.13	8.19	93.515	-21.93	-91.26	68.01	54.11	13.90	4.893	
3,100.00	3,098.24	3,097.91	3,096.36	8.41	8.48	94.476	-23.44	-95.53	71.03	56.84	14.19	5.006	
3,200.00	3,198.12	3,197.86	3,196.20	8.70	8.76	95.359	-24.94	-99.80	74.08	59.59	14.48	5.115	
3,300.00	3,298.01	3,297.80	3,296.05	8.99	9.05	96.171	-26.45	-104.07	77.13	62.36	14.77	5.221	
3,400.00	3,397.89	3,397.75	3,395.89	9.28	9.34	96.922	-27.96	-108.34	80.21	65.14	15.06	5.324	
3,500.00	3,497.77	3,497.70	3,495.74	9.58	9.63	97.617	-29.47	-112.61	83.29	67.94	15.36	5.424	
3,600.00	3,597.66	3,597.65	3,595.58	9.88	9.93	98.262	-30.98	-116.89	86.39	70.74	15.65	5.521	
3,700.00	3,697.54	3,697.59	3,695.42	10.18	10.23	98.862	-32.49	-121.16	89.49	73.56	15.94	5.615	
3,800.00	3,797.42	3,797.54	3,795.27	10.49	10.53	99.423	-34.00	-125.43	92.61	76.38	16.23	5.706	
3,900.00	3,897.31	3,897.49	3,895.11	10.79	10.83	99.946	-35.51	-129.70	95.73	79.21	16.52	5.794	
4,000.00	3,997.19	3,997.44	3,994.96	11.10	11.13	100.437	-37.02	-133.97	98.87	82.05	16.82	5.879	
4,100.00	4,097.07	4,097.38	4,094.80	11.41	11.44	100.897	-38.53	-138.24	102.00	84.89	17.11	5.962	
4,200.00	4,196.96	4,197.33	4,194.65	11.72	11.75	101.330	-40.04	-142.51	105.15	87.74	17.40	6.042	
4,300.00	4,296.84	4,297.28	4,294.49	12.03	12.05	101.738	-41.55	-146.79	108.30	90.60	17.70	6.119	
4,400.00	4,396.72	4,397.23	4,394.34	12.35	12.36	102.122	-43.06	-151.06	111.45	93.46	17.99	6.194	
4,500.00	4,496.61	4,497.17	4,494.18	12.66	12.67	102.486	-44.57	-155.33	114.61	96.33	18.29	6.267	
4,600.00	4,596.49	4,597.12	4,594.03	12.98	12.99	102.830	-46.08	-159.60	117.78	99.19	18.58	6.338	
4,700.00	4,696.37	4,697.07	4,693.87	13.29	13.30	103.156	-47.59	-163.87	120.95	102.07	18.88	6.406	
4,800.00	4,796.26	4,797.02	4,793.72	13.61	13.61	103.465	-49.10	-168.14	124.12	104.94	19.18	6.473	
4,900.00	4,896.14	4,896.96	4,893.56	13.93	13.93	103.759	-50.61	-172.42	127.29	107.82	19.47	6.537	
5,000.00	4,996.02	4,996.91	4,993.41	14.25	14.24	104.039	-52.12	-176.69	130.47	110.70	19.77	6.600	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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		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		
5,100.00	5,095.91	5,096.86	5,093.25	14.57	14.56	104.305	-53.63	-180.96	133.65	113.59	20.07	6.661	
5,200.00	5,195.79	5,196.81	5,193.10	14.89	14.88	104.559	-55.14	-185.23	136.84	116.48	20.36	6.720	
5,300.00	5,295.67	5,296.75	5,292.94	15.21	15.19	104.801	-56.65	-189.50	140.03	119.36	20.66	6.777	
5,400.00	5,395.56	5,396.70	5,392.79	15.54	15.51	105.032	-58.16	-193.77	143.22	122.25	20.96	6.833	
5,500.00	5,495.44	5,496.65	5,492.63	15.86	15.83	105.254	-59.67	-198.05	146.41	125.15	21.26	6.887	
5,600.00	5,595.32	5,596.60	5,592.48	16.19	16.15	105.466	-61.18	-202.32	149.60	128.04	21.56	6.939	
5,700.00	5,695.21	5,696.54	5,692.32	16.51	16.47	105.669	-62.69	-206.59	152.80	130.94	21.86	6.990	
5,800.00	5,795.09	5,796.49	5,792.16	16.83	16.79	105.864	-64.20	-210.86	155.99	133.84	22.16	7.040	
5,900.00	5,894.97	5,896.44	5,892.01	17.16	17.11	106.051	-65.71	-215.13	159.19	136.74	22.46	7.089	
6,000.00	5,994.86	5,996.39	5,991.85	17.49	17.43	106.230	-67.22	-219.40	162.39	139.64	22.76	7.136	
6,100.00	6,094.74	6,096.33	6,091.70	17.81	17.75	106.403	-68.73	-223.68	165.60	142.54	23.06	7.181	
6,200.00	6,194.62	6,196.28	6,191.54	18.14	18.07	106.569	-70.24	-227.95	168.80	145.44	23.36	7.226	
6,300.00	6,294.51	6,296.23	6,291.39	18.47	18.40	106.729	-71.74	-232.22	172.01	148.35	23.66	7.270	
6,400.00	6,394.39	6,396.18	6,391.23	18.79	18.72	106.883	-73.25	-236.49	175.21	151.25	23.96	7.312	
6,500.00	6,494.27	6,496.12	6,491.08	19.12	19.04	107.032	-74.76	-240.76	178.42	154.16	24.26	7.353	
6,600.00	6,594.16	6,596.07	6,590.92	19.45	19.37	107.175	-76.27	-245.03	181.63	157.06	24.57	7.394	
6,700.00	6,694.04	6,696.02	6,690.77	19.78	19.69	107.313	-77.78	-249.31	184.84	159.97	24.87	7.433	
6,800.00	6,793.92	6,795.97	6,790.61	20.11	20.01	107.447	-79.29	-253.58	188.05	162.88	25.17	7.471	
6,900.00	6,893.81	6,895.91	6,890.46	20.44	20.34	107.576	-80.80	-257.85	191.26	165.79	25.47	7.509	
7,000.00	6,993.69	6,995.86	6,990.30	20.77	20.66	107.701	-82.31	-262.12	194.48	168.70	25.77	7.545	
7,100.00	7,093.57	7,095.81	7,090.15	21.10	20.99	107.821	-83.82	-266.39	197.69	171.61	26.08	7.581	
7,200.00	7,193.46	7,195.76	7,189.99	21.43	21.31	107.938	-85.33	-270.66	200.90	174.52	26.38	7.616	
7,300.00	7,293.34	7,295.70	7,289.84	21.76	21.64	108.052	-86.84	-274.94	204.12	177.44	26.68	7.650	
7,400.00	7,393.22	7,395.65	7,389.68	22.09	21.96	108.161	-88.35	-279.21	207.34	180.35	26.99	7.683	
7,500.00	7,493.11	7,495.60	7,489.53	22.42	22.29	108.268	-89.86	-283.48	210.55	183.26	27.29	7.715	
7,600.00	7,592.99	7,595.55	7,589.37	22.75	22.61	108.371	-91.37	-287.75	213.77	186.18	27.59	7.747	
7,700.00	7,692.87	7,695.49	7,689.21	23.08	22.94	108.471	-92.88	-292.02	216.99	189.09	27.90	7.778	
7,800.00	7,792.76	7,795.44	7,789.06	23.41	23.27	108.568	-94.39	-296.29	220.21	192.01	28.20	7.808	
7,900.00	7,892.64	7,895.39	7,888.90	23.74	23.59	108.662	-95.90	-300.57	223.43	194.92	28.51	7.838	
8,000.00	7,992.52	7,995.34	7,988.75	24.07	23.92	108.754	-97.41	-304.84	226.65	197.84	28.81	7.867	
8,100.00	8,092.41	8,095.28	8,088.59	24.40	24.25	108.843	-98.92	-309.11	229.87	200.75	29.11	7.895	
8,200.00	8,192.29	8,195.23	8,188.44	24.74	24.57	108.930	-100.43	-313.38	233.09	203.67	29.42	7.923	
8,300.00	8,292.17	8,295.18	8,288.28	25.07	24.90	109.014	-101.94	-317.65	236.31	206.59	29.72	7.950	
8,400.00	8,392.06	8,395.13	8,388.13	25.40	25.23	109.096	-103.45	-321.92	239.53	209.51	30.03	7.977	
8,500.00	8,491.94	8,495.07	8,487.97	25.73	25.55	109.176	-104.96	-326.19	242.76	212.42	30.33	8.003	
8,600.00	8,591.82	8,595.02	8,587.82	26.07	25.88	109.254	-106.47	-330.47	245.98	215.34	30.64	8.028	
8,700.00	8,691.71	8,694.97	8,687.66	26.40	26.21	109.330	-107.98	-334.74	249.20	218.26	30.94	8.053	
8,800.00	8,791.59	8,794.92	8,787.51	26.73	26.54	109.403	-109.49	-339.01	252.43	221.18	31.25	8.078	
8,900.00	8,891.47	8,894.86	8,887.35	27.06	26.86	109.475	-111.00	-343.28	255.65	224.10	31.55	8.102	
9,000.00	8,991.36	8,994.81	8,987.20	27.40	27.19	109.545	-112.51	-347.55	258.88	227.02	31.86	8.125	
9,100.00	9,091.24	9,094.76	9,087.04	27.73	27.52	109.614	-114.02	-351.82	262.10	229.94	32.17	8.149	
9,200.00	9,191.12	9,194.71	9,186.89	28.06	27.85	109.681	-115.53	-356.10	265.33	232.86	32.47	8.171	
9,300.00	9,291.01	9,294.65	9,286.73	28.40	28.18	109.746	-117.04	-360.37	268.56	235.78	32.78	8.193	
9,400.00	9,390.89	9,394.60	9,386.58	28.73	28.51	109.809	-118.54	-364.64	271.78	238.70	33.08	8.215	
9,500.00	9,490.77	9,494.55	9,486.42	29.06	28.83	109.872	-120.05	-368.91	275.01	241.62	33.39	8.237	
9,600.00	9,590.66	9,594.50	9,586.27	29.40	29.16	109.932	-121.56	-373.18	278.24	244.54	33.69	8.257	
9,700.00	9,690.54	9,694.44	9,686.11	29.73	29.49	109.992	-123.07	-377.45	281.46	247.46	34.00	8.278	
9,800.00	9,790.42	9,794.39	9,786.95	30.06	29.82	110.049	-124.58	-381.73	284.69	250.38	34.31	8.298	
9,900.00	9,890.31	9,894.34	9,886.80	30.40	30.15	110.106	-126.09	-386.00	287.92	253.30	34.61	8.318	
10,000.00	9,990.19	9,994.29	9,985.64	30.73	30.48	110.161	-127.60	-390.27	291.15	256.23	34.92	8.338	
10,100.00	10,090.07	10,094.23	10,085.49	31.07	30.81	110.216	-129.11	-394.54	294.37	259.15	35.23	8.357	
10,200.00	10,189.96	10,194.18	10,185.33	31.40	31.14	110.269	-130.62	-398.81	297.60	262.07	35.53	8.376	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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)			
10,300.00	10,289.84	10,294.13	10,285.18	31.74	31.46	110.321	-132.13	-403.08	300.83	264.99	35.84	8.394	
10,400.00	10,389.72	10,394.08	10,385.02	32.07	31.79	110.371	-133.64	-407.36	304.06	267.92	36.15	8.412	
10,500.00	10,489.60	10,494.02	10,484.87	32.40	32.12	110.421	-135.15	-411.63	307.29	270.84	36.45	8.430	
10,600.00	10,589.49	10,593.97	10,584.71	32.74	32.45	110.470	-136.66	-415.90	310.52	273.76	36.76	8.447	
10,700.00	10,689.37	10,693.92	10,684.56	33.07	32.78	110.517	-138.17	-420.17	313.75	276.68	37.07	8.465	
10,800.00	10,789.25	10,793.87	10,784.40	33.41	33.11	110.564	-139.68	-424.44	316.98	279.61	37.37	8.482	
10,900.00	10,889.14	10,893.81	10,884.25	33.74	33.44	110.610	-141.19	-428.71	320.21	282.53	37.68	8.498	
11,000.00	10,989.02	10,993.76	10,984.09	34.08	33.77	110.655	-142.70	-432.99	323.44	285.46	37.99	8.515	
11,100.00	11,088.90	11,093.71	11,083.94	34.41	34.10	110.698	-144.21	-437.26	326.67	288.38	38.29	8.531	
11,200.00	11,188.79	11,193.66	11,183.78	34.75	34.43	110.742	-145.72	-441.53	329.90	291.30	38.60	8.547	
11,300.00	11,288.67	11,293.60	11,283.63	35.08	34.76	110.784	-147.23	-445.80	333.13	294.23	38.91	8.562	
11,400.00	11,388.55	11,393.55	11,383.47	35.42	35.09	110.825	-148.74	-450.07	336.37	297.15	39.22	8.577	
11,500.00	11,488.44	11,493.51	11,483.35	35.75	35.41	110.940	-150.13	-454.00	339.45	299.95	39.50	8.593	
11,600.00	11,588.32	11,593.50	11,588.32	36.09	35.53	111.548	-150.49	-455.02	341.54	301.80	39.74	8.595	
11,700.00	11,688.20	11,693.38	11,688.20	36.42	35.54	112.297	-150.49	-455.02	343.35	303.40	39.95	8.594	
11,800.00	11,788.09	11,793.27	11,788.09	36.76	35.56	113.038	-150.49	-455.02	345.21	305.02	40.19	8.590	
11,900.00	11,887.97	11,893.15	11,887.97	37.09	35.58	113.771	-150.49	-455.02	347.13	306.69	40.44	8.584	
11,908.72	11,896.68	11,906.86	11,896.68	37.12	35.58	113.834	-150.49	-455.02	347.30	306.84	40.46	8.583	
12,000.00	11,987.91	11,998.09	11,987.91	37.41	35.60	114.300	-150.49	-455.02	348.51	307.84	40.67	8.569	
12,047.14	12,035.04	12,045.22	12,035.04	37.47	35.60	-35.448	-150.49	-455.02	348.67	307.96	40.71	8.564	
12,100.00	12,087.91	12,121.77	12,111.54	37.47	35.65	-35.634	-152.46	-455.00	347.85	307.08	40.78	8.530	
12,200.00	12,187.91	12,307.72	12,291.14	37.48	35.98	-40.392	-197.41	-454.55	328.00	285.88	42.12	7.788	
12,300.00	12,287.91	12,453.85	12,416.50	37.48	36.29	-50.993	-271.71	-453.81	288.87	244.81	44.06	6.556	
12,400.00	12,387.91	12,558.84	12,492.91	37.49	36.53	-65.559	-343.50	-453.09	243.78	196.70	47.08	5.178	
12,500.00	12,487.91	12,633.28	12,538.52	37.50	36.71	-80.822	-402.26	-452.50	208.53	155.55	52.98	3.936	
12,547.14	12,535.04	12,660.74	12,553.36	37.49	36.77	-87.368	-425.36	-452.27	200.52	143.73	56.79	3.531	
12,550.00	12,537.91	12,662.29	12,554.16	37.50	36.77	92.853	-426.68	-452.26	200.27	143.24	57.03	3.512	
12,572.40	12,560.30	12,674.36	12,560.31	37.56	36.80	90.004	-437.07	-452.16	199.37	140.53	58.84	3.388	
12,600.00	12,587.83	12,689.15	12,567.53	37.64	36.84	86.316	-449.98	-452.03	200.70	139.86	60.84	3.299	
12,650.00	12,637.36	12,715.77	12,579.69	37.90	36.90	79.273	-473.65	-451.79	209.41	145.83	63.58	3.294	
12,700.00	12,686.10	12,742.20	12,590.66	38.17	36.97	72.043	-497.69	-451.55	224.79	159.71	65.09	3.454	
12,750.00	12,733.70	12,768.47	12,600.45	38.46	37.03	64.969	-522.07	-451.31	244.96	179.30	65.66	3.731	
12,800.00	12,779.78	12,800.00	12,610.72	38.75	37.11	57.528	-551.88	-451.01	268.31	202.20	66.11	4.058	
12,850.00	12,824.00	12,820.65	12,616.54	39.03	37.16	52.351	-571.68	-450.81	293.32	227.92	65.39	4.485	
12,900.00	12,866.02	12,850.00	12,623.59	39.31	37.23	46.728	-600.17	-450.53	319.27	254.05	65.22	4.895	
12,950.00	12,905.52	12,872.47	12,627.99	39.57	37.29	42.519	-622.21	-450.31	345.34	280.77	64.56	5.349	
13,000.00	12,942.21	12,900.00	12,632.20	39.82	37.36	38.508	-649.41	-450.04	371.09	306.86	64.23	5.778	
13,050.00	12,975.79	12,924.04	12,634.80	40.06	37.42	35.317	-673.31	-449.80	396.13	332.41	63.73	6.216	
13,100.00	13,006.02	12,950.00	12,636.49	40.27	37.49	32.508	-699.20	-449.54	420.20	356.84	63.35	6.633	
13,150.00	13,032.66	12,976.27	12,637.00	40.46	37.55	30.124	-725.46	-449.28	443.06	380.09	62.98	7.035	
13,200.00	13,055.52	13,020.72	12,637.00	40.63	37.68	27.675	-769.91	-448.83	463.59	400.23	63.36	7.317	
13,250.00	13,074.42	13,066.99	12,637.00	40.77	37.82	25.837	-816.19	-448.37	480.72	416.96	63.76	7.539	
13,300.00	13,089.21	13,114.74	12,637.00	40.89	37.97	24.508	-863.93	-447.90	494.22	430.02	64.20	7.698	
13,350.00	13,099.79	13,163.59	12,637.00	40.99	38.15	23.612	-912.78	-447.41	503.92	439.25	64.66	7.793	
13,400.00	13,106.06	13,213.18	12,637.00	41.06	38.33	23.101	-962.36	-446.91	509.69	444.53	65.15	7.823	
13,447.14	13,108.00	13,260.26	12,637.00	41.11	38.52	22.946	-1,009.44	-446.44	511.47	445.84	65.63	7.793	
13,500.00	13,108.00	13,313.13	12,637.00	41.15	38.75	22.946	-1,062.31	-445.92	511.47	445.37	66.11	7.737	
13,600.00	13,108.00	13,413.13	12,637.00	41.25	39.22	22.947	-1,162.30	-444.92	511.48	444.49	66.99	7.635	
13,700.00	13,108.00	13,513.13	12,637.00	41.37	39.74	22.948	-1,262.30	-443.92	511.48	443.57	67.91	7.532	
13,800.00	13,108.00	13,613.13	12,637.00	41.51	40.30	22.948	-1,362.29	-442.92	511.48	442.62	68.86	7.427	
13,900.00	13,108.00	13,713.13	12,637.00	41.67	40.92	22.949	-1,462.29	-441.92	511.48	441.63	69.86	7.322	
14,000.00	13,108.00	13,813.13	12,637.00	41.87	41.59	22.949	-1,562.28	-440.92	511.48	440.60	70.88	7.216	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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)			
14,100.00	13,108.00	13,913.13	12,637.00	42.10	42.29	22.950	-1,662.28	-439.93	511.49	439.55	71.94	7.110	
14,200.00	13,108.00	14,013.13	12,637.00	42.37	43.04	22.951	-1,762.27	-438.93	511.49	438.47	73.02	7.004	
14,300.00	13,108.00	14,113.13	12,637.00	42.69	43.83	22.951	-1,862.27	-437.93	511.49	437.35	74.14	6.899	
14,400.00	13,108.00	14,213.13	12,637.00	43.06	44.66	22.952	-1,962.26	-436.93	511.49	436.21	75.28	6.794	
14,500.00	13,108.00	14,313.13	12,637.00	43.48	45.53	22.953	-2,062.26	-435.93	511.50	435.04	76.45	6.690	
14,600.00	13,108.00	14,413.13	12,637.00	43.97	46.42	22.953	-2,162.25	-434.94	511.50	433.85	77.65	6.587	
14,700.00	13,108.00	14,513.13	12,637.00	44.53	47.35	22.954	-2,262.25	-433.94	511.50	432.63	78.87	6.485	
14,800.00	13,108.00	14,613.13	12,637.00	45.16	48.31	22.954	-2,362.24	-432.94	511.50	431.39	80.11	6.385	
14,900.00	13,108.00	14,713.13	12,637.00	45.87	49.29	22.955	-2,462.24	-431.94	511.51	430.13	81.38	6.285	
15,000.00	13,108.00	14,813.13	12,637.00	46.64	50.30	22.956	-2,562.23	-430.94	511.51	428.84	82.67	6.188	
15,100.00	13,108.00	14,913.13	12,637.00	47.49	51.33	22.956	-2,662.23	-429.94	511.51	427.54	83.97	6.091	
15,200.00	13,108.00	15,013.13	12,637.00	48.39	52.39	22.957	-2,762.22	-428.95	511.51	426.21	85.30	5.997	
15,300.00	13,108.00	15,113.13	12,637.00	49.36	53.46	22.958	-2,862.22	-427.95	511.52	424.87	86.64	5.904	
15,400.00	13,108.00	15,213.13	12,637.00	50.38	54.55	22.958	-2,962.21	-426.95	511.52	423.51	88.01	5.812	
15,500.00	13,108.00	15,313.13	12,637.00	51.44	55.66	22.959	-3,062.21	-425.95	511.52	422.14	89.38	5.723	
15,600.00	13,108.00	15,413.13	12,637.00	52.54	56.79	22.959	-3,162.20	-424.95	511.52	420.74	90.78	5.635	
15,700.00	13,108.00	15,513.13	12,637.00	53.67	57.93	22.960	-3,262.20	-423.96	511.52	419.34	92.19	5.549	
15,800.00	13,108.00	15,613.13	12,637.00	54.84	59.08	22.961	-3,362.19	-422.96	511.53	417.91	93.61	5.464	
15,900.00	13,108.00	15,713.13	12,637.00	56.02	60.25	22.961	-3,462.19	-421.96	511.53	416.48	95.05	5.382	
16,000.00	13,108.00	15,813.13	12,637.00	57.24	61.43	22.962	-3,562.18	-420.96	511.53	415.03	96.50	5.301	
16,100.00	13,108.00	15,913.13	12,637.00	58.47	62.63	22.963	-3,662.18	-419.96	511.53	413.57	97.97	5.221	
16,200.00	13,108.00	16,013.13	12,637.00	59.71	63.83	22.963	-3,762.17	-418.96	511.54	412.09	99.44	5.144	
16,300.00	13,108.00	16,113.13	12,637.00	60.97	65.04	22.964	-3,862.17	-417.97	511.54	410.61	100.93	5.068	
16,400.00	13,108.00	16,213.13	12,637.00	62.25	66.27	22.964	-3,962.16	-416.97	511.54	409.11	102.43	4.994	
16,500.00	13,108.00	16,313.13	12,637.00	63.53	67.50	22.965	-4,062.16	-415.97	511.54	407.60	103.94	4.921	
16,600.00	13,108.00	16,413.13	12,637.00	64.83	68.74	22.966	-4,162.15	-414.97	511.55	406.09	105.46	4.851	
16,700.00	13,108.00	16,513.13	12,637.00	66.13	69.99	22.966	-4,262.15	-413.97	511.55	404.56	106.99	4.781	
16,800.00	13,108.00	16,613.13	12,637.00	67.45	71.24	22.967	-4,362.14	-412.97	511.55	403.02	108.53	4.713	
16,900.00	13,108.00	16,713.13	12,637.00	68.77	72.51	22.968	-4,462.14	-411.98	511.55	401.48	110.08	4.647	
17,000.00	13,108.00	16,813.13	12,637.00	70.10	73.78	22.968	-4,562.13	-410.98	511.56	399.92	111.63	4.582	
17,100.00	13,108.00	16,913.13	12,637.00	71.43	75.05	22.969	-4,662.13	-409.98	511.56	398.36	113.20	4.519	
17,200.00	13,108.00	17,013.13	12,637.00	72.77	76.33	22.969	-4,762.12	-408.98	511.56	396.79	114.77	4.457	
17,300.00	13,108.00	17,113.13	12,637.00	74.11	77.62	22.970	-4,862.12	-407.98	511.56	395.21	116.35	4.397	
17,400.00	13,108.00	17,213.13	12,637.00	75.46	78.91	22.971	-4,962.11	-406.99	511.56	393.63	117.94	4.338	
17,500.00	13,108.00	17,313.13	12,637.00	76.81	80.21	22.971	-5,062.11	-405.99	511.57	392.04	119.53	4.280	
17,600.00	13,108.00	17,413.13	12,637.00	78.17	81.51	22.972	-5,162.10	-404.99	511.57	390.44	121.13	4.223	
17,700.00	13,108.00	17,513.13	12,637.00	79.53	82.82	22.973	-5,262.10	-403.99	511.57	388.83	122.74	4.168	
17,800.00	13,108.00	17,613.13	12,637.00	80.89	84.13	22.973	-5,362.09	-402.99	511.57	387.22	124.35	4.114	
17,900.00	13,108.00	17,713.13	12,637.00	82.26	85.45	22.974	-5,462.09	-401.99	511.58	385.60	125.97	4.061	
18,000.00	13,108.00	17,813.13	12,637.00	83.63	86.77	22.974	-5,562.08	-401.00	511.58	383.98	127.60	4.009	
18,100.00	13,108.00	17,913.13	12,637.00	85.00	88.09	22.975	-5,662.08	-400.00	511.58	382.35	129.23	3.959	
18,200.00	13,108.00	18,013.13	12,637.00	86.38	89.42	22.976	-5,762.07	-399.00	511.58	380.72	130.86	3.909	
18,300.00	13,108.00	18,113.13	12,637.00	87.76	90.75	22.976	-5,862.07	-398.00	511.59	379.08	132.50	3.861	
18,400.00	13,108.00	18,213.13	12,637.00	89.14	92.08	22.977	-5,962.06	-397.00	511.59	377.44	134.15	3.814	
18,500.00	13,108.00	18,313.13	12,637.00	90.52	93.41	22.978	-6,062.06	-396.01	511.59	375.79	135.80	3.767	
18,600.00	13,108.00	18,413.13	12,637.00	91.90	94.75	22.978	-6,162.05	-395.01	511.59	374.14	137.46	3.722	
18,700.00	13,108.00	18,513.13	12,637.00	93.29	96.10	22.979	-6,262.05	-394.01	511.60	372.48	139.12	3.678	
18,800.00	13,108.00	18,613.13	12,637.00	94.68	97.44	22.979	-6,362.04	-393.01	511.60	370.82	140.78	3.634	
18,900.00	13,108.00	18,713.13	12,637.00	96.06	98.79	22.980	-6,462.04	-392.01	511.60	369.15	142.45	3.592	
19,000.00	13,108.00	18,813.13	12,637.00	97.46	100.14	22.981	-6,562.03	-391.01	511.60	367.48	144.12	3.550	
19,100.00	13,108.00	18,913.13	12,637.00	98.85	101.49	22.981	-6,662.03	-390.02	511.61	365.81	145.79	3.509	
19,200.00	13,108.00	19,013.13	12,637.00	100.24	102.85	22.982	-6,762.02	-389.02	511.61	364.13	147.47	3.469	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,300.00	13,108.00	19,113.13	12,637.00	101.64	104.20	22.983	-6,862.02	-388.02	511.61	362.45	149.16	3.430	
19,400.00	13,108.00	19,213.13	12,637.00	103.03	105.56	22.983	-6,962.01	-387.02	511.61	360.77	150.84	3.392	
19,500.00	13,108.00	19,313.13	12,637.00	104.43	106.92	22.984	-7,062.01	-386.02	511.61	359.08	152.53	3.354	
19,600.00	13,108.00	19,413.13	12,637.00	105.83	108.28	22.984	-7,162.00	-385.02	511.62	357.39	154.22	3.317	
19,700.00	13,108.00	19,513.13	12,637.00	107.23	109.65	22.985	-7,262.00	-384.03	511.62	355.70	155.92	3.281	
19,800.00	13,108.00	19,613.13	12,637.00	108.63	111.02	22.986	-7,361.99	-383.03	511.62	354.00	157.62	3.246	
19,900.00	13,108.00	19,713.13	12,637.00	110.03	112.38	22.986	-7,461.99	-382.03	511.62	352.30	159.32	3.211	
20,000.00	13,108.00	19,813.13	12,637.00	111.43	113.75	22.987	-7,561.98	-381.03	511.63	350.60	161.03	3.177	
20,100.00	13,108.00	19,913.13	12,637.00	112.84	115.13	22.988	-7,661.98	-380.03	511.63	348.90	162.73	3.144	
20,200.00	13,108.00	20,013.13	12,637.00	114.24	116.50	22.988	-7,761.97	-379.04	511.63	347.19	164.44	3.111	
20,300.00	13,108.00	20,113.13	12,637.00	115.65	117.87	22.989	-7,861.97	-378.04	511.63	345.48	166.16	3.079	
20,400.00	13,108.00	20,213.13	12,637.00	117.05	119.25	22.989	-7,961.96	-377.04	511.64	343.76	167.87	3.048	
20,500.00	13,108.00	20,313.13	12,637.00	118.46	120.63	22.990	-8,061.96	-376.04	511.64	342.05	169.59	3.017	
20,600.00	13,108.00	20,413.13	12,637.00	119.87	122.01	22.991	-8,161.95	-375.04	511.64	340.33	171.31	2.987	
20,700.00	13,108.00	20,513.13	12,637.00	121.28	123.39	22.991	-8,261.95	-374.04	511.64	338.61	173.03	2.957	
20,800.00	13,108.00	20,613.13	12,637.00	122.68	124.77	22.992	-8,361.94	-373.05	511.65	336.89	174.76	2.928	
20,900.00	13,108.00	20,713.13	12,637.00	124.09	126.15	22.993	-8,461.94	-372.05	511.65	335.17	176.48	2.899	
21,000.00	13,108.00	20,813.13	12,637.00	125.51	127.53	22.993	-8,561.93	-371.05	511.65	333.44	178.21	2.871	
21,100.00	13,108.00	20,913.13	12,637.00	126.92	128.92	22.994	-8,661.93	-370.05	511.65	331.71	179.94	2.843	
21,200.00	13,108.00	21,013.13	12,637.00	128.33	130.31	22.994	-8,761.92	-369.05	511.65	329.98	181.67	2.816	
21,300.00	13,108.00	21,113.13	12,637.00	129.74	131.69	22.995	-8,861.92	-368.06	511.66	328.25	183.41	2.790	
21,400.00	13,108.00	21,213.13	12,637.00	131.15	133.08	22.996	-8,961.91	-367.06	511.66	326.51	185.14	2.764	
21,500.00	13,108.00	21,313.13	12,637.00	132.57	134.47	22.996	-9,061.91	-366.06	511.66	324.78	186.88	2.738	
21,600.00	13,108.00	21,413.13	12,637.00	133.98	135.86	22.997	-9,161.90	-365.06	511.66	323.04	188.62	2.713	
21,700.00	13,108.00	21,513.13	12,637.00	135.39	137.25	22.998	-9,261.90	-364.06	511.67	321.30	190.36	2.688	
21,800.00	13,108.00	21,613.13	12,637.00	136.81	138.64	22.998	-9,361.89	-363.06	511.67	319.56	192.11	2.663	
21,900.00	13,108.00	21,713.13	12,637.00	138.22	140.04	22.999	-9,461.89	-362.07	511.67	317.82	193.85	2.639	
22,000.00	13,108.00	21,813.13	12,637.00	139.64	141.43	22.999	-9,561.88	-361.07	511.67	316.07	195.60	2.616	
22,100.00	13,108.00	21,913.13	12,637.00	141.06	142.82	23.000	-9,661.88	-360.07	511.68	314.33	197.35	2.593	
22,200.00	13,108.00	22,013.13	12,637.00	142.47	144.22	23.001	-9,761.87	-359.07	511.68	312.58	199.10	2.570	
22,300.00	13,108.00	22,113.13	12,637.00	143.89	145.62	23.001	-9,861.87	-358.07	511.68	310.83	200.85	2.548	
22,400.00	13,108.00	22,213.13	12,637.00	145.31	147.01	23.002	-9,961.86	-357.07	511.68	309.08	202.60	2.526	
22,500.00	13,108.00	22,313.13	12,637.00	146.72	148.41	23.003	-10,061.86	-356.08	511.69	307.33	204.35	2.504	
22,600.00	13,108.00	22,413.13	12,637.00	148.14	149.81	23.003	-10,161.85	-355.08	511.69	305.58	206.11	2.483	
22,700.00	13,108.00	22,513.13	12,637.00	149.56	151.21	23.004	-10,261.85	-354.08	511.69	303.82	207.87	2.462	
22,800.00	13,108.00	22,613.13	12,637.00	150.98	152.61	23.004	-10,361.84	-353.08	511.69	302.07	209.62	2.441	
22,900.00	13,108.00	22,713.13	12,637.00	152.40	154.01	23.005	-10,461.84	-352.08	511.70	300.31	211.38	2.421	
23,000.00	13,108.00	22,813.13	12,637.00	153.82	155.41	23.006	-10,561.83	-351.09	511.70	298.55	213.14	2.401	
23,100.00	13,108.00	22,913.13	12,637.00	155.24	156.81	23.006	-10,661.83	-350.09	511.70	296.80	214.90	2.381	
23,200.00	13,108.00	23,013.13	12,637.00	156.66	158.21	23.007	-10,761.82	-349.09	511.70	295.03	216.67	2.362	
23,247.14	13,108.00	23,060.26	12,637.00	157.33	158.88	23.007	-10,808.96	-348.62	511.70	294.21	217.50	2.353 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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 413H - OH - Plan 1 08-31-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
0.00	0.00	1.00	0.00	1.00	1.00	89.529	9.86	1,200.10	1,200.14				
100.00	100.00	101.00	100.00	1.08	1.09	89.529	9.86	1,200.10	1,200.14	1,197.97	2.17	552.672	
200.00	200.00	201.00	200.00	1.60	1.60	89.529	9.86	1,200.10	1,200.14	1,196.94	3.20	374.916	
300.00	300.00	301.00	300.00	2.01	2.01	89.529	9.86	1,200.10	1,200.14	1,196.12	4.02	298.354	
400.00	400.00	401.00	400.00	2.35	2.36	89.529	9.86	1,200.10	1,200.14	1,195.43	4.71	254.906	
500.00	500.00	501.00	500.00	2.65	2.66	89.529	9.86	1,200.10	1,200.14	1,194.83	5.31	225.977	
600.00	600.00	601.00	600.00	2.93	2.93	89.529	9.86	1,200.10	1,200.14	1,194.28	5.86	204.927	
700.00	700.00	701.00	700.00	3.18	3.18	89.529	9.86	1,200.10	1,200.14	1,193.78	6.36	188.717	
800.00	800.00	801.00	800.00	3.41	3.42	89.529	9.86	1,200.10	1,200.14	1,193.31	6.83	175.731	
900.00	900.00	901.00	900.00	3.64	3.64	89.529	9.86	1,200.10	1,200.14	1,192.87	7.27	165.019	
1,000.00	1,000.00	1,001.00	1,000.00	3.85	3.85	89.529	9.86	1,200.10	1,200.14	1,192.45	7.69	155.984	
1,100.00	1,100.00	1,101.00	1,100.00	4.05	4.05	89.529	9.86	1,200.10	1,200.14	1,192.04	8.10	148.227	
1,200.00	1,200.00	1,201.00	1,200.00	4.24	4.24	89.529	9.86	1,200.10	1,200.14	1,191.66	8.48	141.471	
1,300.00	1,300.00	1,301.00	1,300.00	4.43	4.43	89.529	9.86	1,200.10	1,200.14	1,191.28	8.86	135.515	
1,400.00	1,400.00	1,401.00	1,400.00	4.61	4.61	89.529	9.86	1,200.10	1,200.14	1,190.92	9.22	130.213	
1,500.00	1,500.00	1,501.23	1,500.23	4.78	4.78	89.529	9.86	1,200.10	1,200.14	1,190.57	9.57	125.451	
1,600.00	1,599.98	1,624.16	1,623.12	4.99	5.12	-120.636	7.44	1,198.92	1,200.06	1,190.14	9.91	121.078	
1,638.42	1,638.36	1,671.37	1,670.27	5.04	5.41	-120.614	5.25	1,197.86	1,199.99	1,189.95	10.04	119.493	
1,700.00	1,699.87	1,741.66	1,740.38	5.10	5.65	-120.541	0.79	1,195.68	1,199.56	1,189.38	10.17	117.907	
1,800.00	1,799.76	1,841.62	1,840.05	5.26	5.79	-120.413	-6.05	1,192.35	1,198.64	1,188.23	10.41	115.143	
1,900.00	1,899.64	1,941.58	1,939.72	5.44	5.97	-120.286	-12.88	1,189.02	1,197.72	1,187.03	10.69	112.020	
2,000.00	1,999.52	2,041.54	2,039.39	5.64	6.18	-120.158	-19.72	1,185.68	1,196.81	1,185.83	10.98	108.956	
2,100.00	2,099.41	2,141.50	2,139.06	5.84	6.39	-120.030	-26.56	1,182.35	1,195.91	1,184.63	11.28	105.992	
2,200.00	2,199.29	2,241.46	2,238.73	6.07	6.63	-119.902	-33.39	1,179.02	1,195.01	1,183.43	11.59	103.134	
2,300.00	2,299.17	2,341.42	2,338.40	6.30	6.87	-119.774	-40.23	1,175.69	1,194.12	1,182.23	11.90	100.380	
2,400.00	2,399.06	2,441.38	2,438.07	6.54	7.13	-119.645	-47.07	1,172.36	1,193.24	1,181.03	12.21	97.733	
2,500.00	2,498.94	2,541.34	2,537.74	6.79	7.39	-119.517	-53.90	1,169.03	1,192.36	1,179.83	12.53	95.189	
2,600.00	2,598.82	2,641.30	2,637.41	7.04	7.67	-119.388	-60.74	1,165.69	1,191.49	1,178.64	12.85	92.748	
2,700.00	2,698.71	2,741.26	2,737.08	7.31	7.95	-119.259	-67.58	1,162.36	1,190.62	1,177.45	13.17	90.406	
2,800.00	2,798.59	2,841.22	2,836.75	7.58	8.24	-119.130	-74.42	1,159.03	1,189.76	1,176.26	13.50	88.160	
2,900.00	2,898.47	2,941.18	2,936.42	7.85	8.54	-119.000	-81.25	1,155.70	1,188.91	1,175.08	13.82	86.008	
3,000.00	2,998.36	3,041.14	3,036.09	8.13	8.85	-118.871	-88.09	1,152.37	1,188.06	1,173.90	14.15	83.944	
3,100.00	3,098.24	3,141.10	3,135.76	8.41	9.16	-118.741	-94.93	1,149.04	1,187.21	1,172.73	14.48	81.966	
3,200.00	3,198.12	3,241.06	3,235.43	8.70	9.47	-118.611	-101.76	1,145.70	1,186.38	1,171.56	14.82	80.070	
3,300.00	3,298.01	3,341.02	3,335.11	8.99	9.79	-118.481	-108.60	1,142.37	1,185.55	1,170.40	15.15	78.253	
3,400.00	3,397.89	3,440.98	3,434.78	9.28	10.11	-118.351	-115.44	1,139.04	1,184.72	1,169.24	15.48	76.510	
3,500.00	3,497.77	3,540.94	3,534.45	9.58	10.44	-118.220	-122.27	1,135.71	1,183.91	1,168.09	15.82	74.838	
3,600.00	3,597.66	3,640.90	3,634.12	9.88	10.76	-118.090	-129.11	1,132.38	1,183.09	1,166.94	16.16	73.234	
3,700.00	3,697.54	3,740.86	3,733.79	10.18	11.10	-117.959	-135.95	1,129.05	1,182.29	1,165.80	16.49	71.694	
3,800.00	3,797.42	3,840.82	3,833.46	10.49	11.43	-117.828	-142.78	1,125.71	1,181.49	1,164.66	16.83	70.215	
3,900.00	3,897.31	3,940.78	3,933.13	10.79	11.77	-117.697	-149.62	1,122.38	1,180.70	1,163.53	17.16	68.795	
4,000.00	3,997.19	4,040.74	4,032.80	11.10	12.11	-117.565	-156.46	1,119.05	1,179.91	1,162.41	17.50	67.430	
4,100.00	4,097.07	4,140.70	4,132.47	11.41	12.45	-117.434	-163.29	1,115.72	1,179.13	1,161.29	17.83	66.118	
4,200.00	4,196.96	4,240.66	4,232.14	11.72	12.79	-117.302	-170.13	1,112.39	1,178.35	1,160.18	18.17	64.856	
4,300.00	4,296.84	4,340.62	4,331.81	12.03	13.14	-117.170	-176.97	1,109.06	1,177.59	1,159.08	18.50	63.642	
4,400.00	4,396.72	4,440.58	4,431.48	12.35	13.48	-117.038	-183.80	1,105.72	1,176.82	1,157.99	18.84	62.473	
4,500.00	4,496.61	4,540.54	4,531.15	12.66	13.83	-116.906	-190.64	1,102.39	1,176.07	1,156.90	19.17	61.347	
4,600.00	4,596.49	4,640.50	4,630.82	12.98	14.18	-116.773	-197.48	1,099.06	1,175.32	1,155.81	19.50	60.262	
4,700.00	4,696.37	4,740.46	4,730.49	13.29	14.53	-116.641	-204.31	1,095.73	1,174.57	1,154.74	19.84	59.216	
4,800.00	4,796.26	4,840.42	4,830.16	13.61	14.89	-116.508	-211.15	1,092.40	1,173.84	1,153.67	20.17	58.208	
4,900.00	4,896.14	4,940.38	4,929.83	13.93	15.24	-116.375	-217.99	1,089.07	1,173.11	1,152.61	20.50	57.235	
5,000.00	4,996.02	5,040.34	5,029.50	14.25	15.59	-116.242	-224.82	1,085.73	1,172.38	1,151.56	20.83	56.295	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 413H - OH - Plan 1 08-31-22												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Minimum Separation (usft)	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	5,095.91	5,140.30	5,129.17	14.57	15.95	-116.109	-231.66	1,082.40	1,171.66	1,150.51	21.15	55.388	
5,200.00	5,195.79	5,240.27	5,228.85	14.89	16.31	-115.976	-238.50	1,079.07	1,170.95	1,149.47	21.48	54.512	
5,300.00	5,295.67	5,340.23	5,328.52	15.21	16.66	-115.842	-245.33	1,075.74	1,170.25	1,148.44	21.81	53.665	
5,400.00	5,395.56	5,440.19	5,428.19	15.54	17.02	-115.708	-252.17	1,072.41	1,169.55	1,147.42	22.13	52.846	
5,500.00	5,495.44	5,540.15	5,527.86	15.86	17.38	-115.574	-259.01	1,069.08	1,168.86	1,146.40	22.45	52.053	
5,600.00	5,595.32	5,640.11	5,627.53	16.19	17.74	-115.440	-265.85	1,065.74	1,168.17	1,145.39	22.78	51.287	
5,700.00	5,695.21	5,740.07	5,727.20	16.51	18.10	-115.306	-272.68	1,062.41	1,167.49	1,144.39	23.10	50.545	
5,800.00	5,795.09	5,840.03	5,826.87	16.83	18.46	-115.172	-279.52	1,059.08	1,166.82	1,143.40	23.42	49.826	
5,900.00	5,894.97	5,939.99	5,926.54	17.16	18.82	-115.037	-286.36	1,055.75	1,166.15	1,142.41	23.74	49.129	
6,000.00	5,994.86	6,039.95	6,026.21	17.49	19.18	-114.903	-293.19	1,052.42	1,165.49	1,141.44	24.05	48.454	
6,100.00	6,094.74	6,139.91	6,125.88	17.81	19.55	-114.768	-300.03	1,049.09	1,164.84	1,140.47	24.37	47.800	
6,200.00	6,194.62	6,239.87	6,225.55	18.14	19.91	-114.633	-306.87	1,045.75	1,164.19	1,139.50	24.68	47.165	
6,300.00	6,294.51	6,339.83	6,325.22	18.47	20.27	-114.498	-313.70	1,042.42	1,163.55	1,138.55	25.00	46.549	
6,400.00	6,394.39	6,439.79	6,424.89	18.79	20.64	-114.363	-320.54	1,039.09	1,162.91	1,137.60	25.31	45.951	
6,500.00	6,494.27	6,539.75	6,524.56	19.12	21.00	-114.227	-327.38	1,035.76	1,162.28	1,136.67	25.62	45.371	
6,600.00	6,594.16	6,639.71	6,624.23	19.45	21.37	-114.092	-334.21	1,032.43	1,161.66	1,135.74	25.93	44.807	
6,700.00	6,694.04	6,739.67	6,723.90	19.78	21.73	-113.956	-341.05	1,029.10	1,161.05	1,134.81	26.23	44.259	
6,800.00	6,793.92	6,839.63	6,823.57	20.11	22.10	-113.820	-347.89	1,025.76	1,160.44	1,133.90	26.54	43.727	
6,900.00	6,893.81	6,939.59	6,923.24	20.44	22.46	-113.684	-354.72	1,022.43	1,159.84	1,132.99	26.84	43.209	
7,000.00	6,993.69	7,039.55	7,022.91	20.77	22.83	-113.548	-361.56	1,019.10	1,159.24	1,132.10	27.14	42.706	
7,100.00	7,093.57	7,139.51	7,122.58	21.10	23.19	-113.412	-368.40	1,015.77	1,158.65	1,131.21	27.45	42.216	
7,200.00	7,193.46	7,239.47	7,222.26	21.43	23.56	-113.275	-375.23	1,012.44	1,158.07	1,130.33	27.74	41.740	
7,300.00	7,293.34	7,339.43	7,321.93	21.76	23.93	-113.139	-382.07	1,009.10	1,157.49	1,129.45	28.04	41.276	
7,400.00	7,393.22	7,439.39	7,421.60	22.09	24.30	-113.002	-388.91	1,005.77	1,156.93	1,128.59	28.34	40.824	
7,500.00	7,493.11	7,539.35	7,521.27	22.42	24.66	-112.865	-395.74	1,002.44	1,156.36	1,127.73	28.63	40.385	
7,600.00	7,592.99	7,639.31	7,620.94	22.75	25.03	-112.729	-402.58	999.11	1,155.81	1,126.88	28.93	39.956	
7,700.00	7,692.87	7,739.27	7,720.61	23.08	25.40	-112.591	-409.42	995.78	1,155.26	1,126.04	29.22	39.539	
7,800.00	7,792.76	7,839.23	7,820.28	23.41	25.77	-112.454	-416.25	992.45	1,154.71	1,125.21	29.51	39.132	
7,900.00	7,892.64	7,939.19	7,919.95	23.74	26.14	-112.317	-423.09	989.11	1,154.18	1,124.38	29.80	38.735	
8,000.00	7,992.52	8,039.15	8,019.62	24.07	26.50	-112.180	-429.93	985.78	1,153.65	1,123.57	30.08	38.348	
8,100.00	8,092.41	8,139.11	8,119.29	24.40	26.87	-112.042	-436.76	982.45	1,153.13	1,122.76	30.37	37.971	
8,200.00	8,192.29	8,239.07	8,218.96	24.74	27.24	-111.904	-443.60	979.12	1,152.61	1,121.96	30.65	37.602	
8,300.00	8,292.17	8,339.03	8,318.63	25.07	27.61	-111.766	-450.44	975.79	1,152.10	1,121.17	30.93	37.243	
8,400.00	8,392.06	8,438.99	8,418.30	25.40	27.98	-111.629	-457.27	972.46	1,151.60	1,120.38	31.22	36.892	
8,500.00	8,491.94	8,538.95	8,517.97	25.73	28.35	-111.490	-464.11	969.12	1,151.10	1,119.61	31.49	36.550	
8,600.00	8,591.82	8,638.91	8,617.64	26.07	28.72	-111.352	-470.95	965.79	1,150.61	1,118.84	31.77	36.215	
8,700.00	8,691.71	8,738.87	8,717.31	26.40	29.09	-111.214	-477.79	962.46	1,150.13	1,118.08	32.05	35.888	
8,800.00	8,791.59	8,838.83	8,816.98	26.73	29.46	-111.076	-484.62	959.13	1,149.65	1,117.33	32.32	35.569	
8,900.00	8,891.47	8,938.79	8,916.65	27.06	29.83	-110.937	-491.46	955.80	1,149.18	1,116.59	32.59	35.257	
9,000.00	8,991.36	9,038.75	9,016.32	27.40	30.20	-110.798	-498.30	952.47	1,148.72	1,115.86	32.87	34.952	
9,100.00	9,091.24	9,138.72	9,116.00	27.73	30.57	-110.660	-505.13	949.13	1,148.26	1,115.13	33.14	34.654	
9,200.00	9,191.12	9,238.68	9,215.67	28.06	30.94	-110.521	-511.97	945.80	1,147.82	1,114.41	33.40	34.362	
9,300.00	9,291.01	9,338.64	9,315.34	28.40	31.31	-110.382	-518.81	942.47	1,147.37	1,113.70	33.67	34.077	
9,400.00	9,390.89	9,438.60	9,415.01	28.73	31.69	-110.243	-525.64	939.14	1,146.94	1,113.00	33.93	33.798	
9,500.00	9,490.77	9,538.56	9,514.68	29.06	32.06	-110.104	-532.48	935.81	1,146.51	1,112.31	34.20	33.525	
9,600.00	9,590.66	9,638.52	9,614.35	29.40	32.43	-109.964	-539.32	932.48	1,146.09	1,111.63	34.46	33.258	
9,700.00	9,690.54	9,738.48	9,714.02	29.73	32.80	-109.825	-546.15	929.14	1,145.67	1,110.95	34.72	32.997	
9,800.00	9,790.42	9,838.44	9,813.69	30.06	33.17	-109.686	-552.99	925.81	1,145.26	1,110.28	34.98	32.741	
9,900.00	9,890.31	9,938.40	9,913.36	30.40	33.54	-109.546	-559.83	922.48	1,144.86	1,109.62	35.24	32.490	
10,000.00	9,990.19	10,038.36	10,013.03	30.73	33.91	-109.406	-566.66	919.15	1,144.47	1,108.97	35.49	32.245	
10,100.00	10,090.07	10,138.32	10,112.70	31.07	34.29	-109.267	-573.50	915.82	1,144.08	1,108.33	35.75	32.004	
10,200.00	10,189.96	10,238.28	10,212.37	31.40	34.66	-109.127	-580.34	912.49	1,143.70	1,107.70	36.00	31.769	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 413H - OH - Plan 1 08-31-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,300.00	10,289.84	10,338.24	10,312.04	31.74	35.03	-108.987	-587.17	909.15	1,143.32	1,107.07	36.25	31.538	
10,400.00	10,389.72	10,438.20	10,411.71	32.07	35.40	-108.847	-594.01	905.82	1,142.95	1,106.45	36.50	31.312	
10,500.00	10,489.60	10,538.16	10,511.38	32.40	35.77	-108.707	-600.85	902.49	1,142.59	1,105.84	36.75	31.090	
10,600.00	10,589.49	10,638.12	10,611.05	32.74	36.15	-108.566	-607.68	899.16	1,142.24	1,105.24	37.00	30.872	
10,700.00	10,689.37	10,738.08	10,710.72	33.07	36.52	-108.426	-614.52	895.83	1,141.89	1,104.65	37.24	30.659	
10,800.00	10,789.25	10,838.04	10,810.39	33.41	36.89	-108.286	-621.36	892.50	1,141.55	1,104.06	37.49	30.450	
10,900.00	10,889.14	10,938.00	10,910.06	33.74	37.26	-108.145	-628.19	889.16	1,141.22	1,103.49	37.73	30.245	
11,000.00	10,989.02	11,037.96	11,009.73	34.08	37.64	-108.005	-635.03	885.83	1,140.89	1,102.92	37.97	30.044	
11,100.00	11,088.90	11,137.92	11,109.41	34.41	38.01	-107.864	-641.87	882.50	1,140.57	1,102.36	38.22	29.846	
11,200.00	11,188.79	11,237.88	11,209.08	34.75	38.38	-107.723	-648.70	879.17	1,140.26	1,101.81	38.45	29.652	
11,300.00	11,288.67	11,337.84	11,308.75	35.08	38.75	-107.583	-655.54	875.84	1,139.95	1,101.26	38.69	29.464	
11,383.97	11,372.54	11,418.39	11,389.08	35.36	39.05	-107.481	-660.84	873.26	1,139.76	1,100.89	38.88	29.319 CC	
11,400.00	11,388.55	11,433.08	11,403.74	35.42	39.10	-107.471	-661.64	872.87	1,139.77	1,100.86	38.91	29.290	
11,500.00	11,488.44	11,524.70	11,495.28	35.75	39.38	-107.495	-665.10	871.18	1,140.26	1,101.08	39.18	29.107	
11,600.00	11,588.32	11,617.75	11,588.32	36.09	39.50	-107.662	-665.98	870.75	1,141.47	1,102.02	39.46	28.931	
11,700.00	11,688.20	11,717.64	11,688.20	36.42	39.52	-107.893	-665.98	870.75	1,142.95	1,103.22	39.73	28.767	
11,800.00	11,788.09	11,817.52	11,788.09	36.76	39.53	-108.123	-665.98	870.75	1,144.44	1,104.43	40.01	28.605	
11,900.00	11,887.97	11,917.40	11,887.97	37.09	39.53	-108.352	-665.98	870.75	1,145.95	1,105.66	40.29	28.441	
11,908.72	11,896.68	11,926.11	11,896.68	37.12	39.53	-108.372	-665.98	870.75	1,146.09	1,105.77	40.32	28.427	
12,000.00	11,987.91	12,017.34	11,987.91	37.41	39.54	-108.530	-665.98	870.75	1,147.02	1,106.50	40.52	28.305	
12,047.14	12,035.04	12,064.47	12,035.04	37.47	39.54	-101.640	-665.98	870.75	1,147.15	1,106.59	40.56	28.283	
12,052.24	12,040.15	12,069.58	12,040.15	37.47	39.54	101.640	-665.98	870.75	1,147.15	1,106.59	40.56	28.283	
12,100.00	12,087.91	12,112.03	12,082.59	37.47	39.57	101.647	-666.12	870.75	1,147.19	1,106.64	40.55	28.290	
12,200.00	12,187.91	12,181.74	12,152.02	37.48	39.81	101.928	-671.87	870.81	1,148.97	1,108.54	40.43	28.420	
12,300.00	12,287.91	12,250.00	12,218.84	37.48	40.20	102.596	-685.64	870.94	1,153.53	1,113.33	40.20	28.696	
12,400.00	12,387.91	12,312.48	12,278.18	37.49	40.57	103.537	-705.12	871.13	1,161.24	1,121.30	39.95	29.071	
12,500.00	12,487.91	12,370.85	12,331.39	37.50	40.92	104.681	-729.05	871.36	1,172.60	1,132.85	39.75	29.503	
12,547.14	12,535.04	12,400.00	12,356.98	37.49	41.09	105.343	-743.00	871.50	1,179.37	1,139.72	39.65	29.744	
12,550.00	12,537.91	12,400.00	12,356.98	37.50	41.09	-74.040	-743.00	871.50	1,179.80	1,140.14	39.66	29.746	
12,600.00	12,587.83	12,424.46	12,377.88	37.64	41.23	-72.758	-755.70	871.62	1,187.41	1,147.68	39.73	29.887	
12,650.00	12,637.36	12,450.00	12,399.11	37.90	41.38	-71.526	-769.89	871.76	1,194.81	1,154.89	39.91	29.935	
12,700.00	12,686.10	12,477.21	12,421.00	38.17	41.53	-70.351	-786.04	871.91	1,201.88	1,161.69	40.20	29.899	
12,750.00	12,733.70	12,500.00	12,438.74	38.46	41.66	-69.344	-800.36	872.05	1,208.55	1,167.93	40.62	29.756	
12,800.00	12,779.78	12,529.75	12,461.00	38.75	41.81	-68.336	-820.08	872.24	1,214.68	1,173.62	41.06	29.584	
12,850.00	12,824.00	12,550.00	12,475.56	39.03	41.92	-67.559	-834.16	872.38	1,220.24	1,178.58	41.66	29.289	
12,900.00	12,866.02	12,582.15	12,497.62	39.31	42.08	-66.762	-857.54	872.60	1,225.09	1,182.87	42.22	29.018	
12,950.00	12,905.52	12,600.00	12,509.29	39.57	42.16	-66.214	-871.04	872.73	1,229.28	1,186.31	42.97	28.608	
13,000.00	12,942.21	12,634.46	12,530.61	39.82	42.32	-65.662	-898.10	872.99	1,232.59	1,188.99	43.60	28.268	
13,050.00	12,975.79	12,650.00	12,539.68	40.06	42.39	-65.337	-910.72	873.12	1,235.21	1,190.74	44.47	27.773	
13,100.00	13,006.02	12,686.70	12,559.73	40.27	42.53	-65.053	-941.45	873.41	1,236.81	1,191.65	45.16	27.387	
13,150.00	13,032.66	12,712.81	12,572.77	40.46	42.63	-64.937	-964.07	873.63	1,237.62	1,191.63	45.99	26.909	
13,200.00	13,055.52	12,750.00	12,589.54	40.63	42.76	-64.952	-997.26	873.95	1,237.65	1,190.92	46.73	26.485	
13,250.00	13,074.42	12,765.03	12,595.70	40.77	42.80	-65.080	-1,010.96	874.08	1,236.60	1,188.86	47.75	25.899	
13,300.00	13,089.21	12,800.00	12,608.63	40.89	42.91	-65.377	-1,043.45	874.40	1,234.84	1,186.28	48.56	25.431	
13,350.00	13,099.79	12,817.27	12,614.27	40.99	42.95	-65.724	-1,059.77	874.56	1,232.11	1,182.50	49.61	24.838	
13,400.00	13,106.06	12,850.00	12,623.61	41.06	43.03	-66.283	-1,091.13	874.86	1,228.66	1,178.17	50.48	24.339	
13,447.14	13,108.00	12,868.08	12,628.00	41.11	43.06	-66.820	-1,108.67	875.03	1,224.62	1,173.13	51.49	23.784	
13,500.00	13,108.00	12,900.00	12,634.39	41.15	43.12	-67.096	-1,139.94	875.33	1,220.33	1,167.86	52.47	23.258	
13,600.00	13,108.00	12,950.00	12,640.87	41.25	43.19	-67.377	-1,189.50	875.81	1,215.09	1,160.55	54.54	22.279	
13,700.00	13,108.00	13,010.04	12,643.00	41.37	43.24	-67.470	-1,249.48	876.39	1,213.57	1,157.05	56.52	21.472	
13,800.00	13,108.00	13,110.04	12,643.00	41.51	43.31	-67.469	-1,349.47	877.35	1,213.54	1,155.60	57.94	20.945	
13,900.00	13,108.00	13,210.04	12,643.00	41.67	43.40	-67.469	-1,449.47	878.32	1,213.50	1,154.07	59.43	20.420	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 413H - OH - Plan 1 08-31-22												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,000.00	13,108.00	13,310.04	12,643.00	41.87	43.51	-67.468	-1,549.46	879.29	1,213.47	1,152.47	61.00	19.893	
14,100.00	13,108.00	13,410.04	12,643.00	42.10	43.64	-67.467	-1,649.46	880.25	1,213.43	1,150.78	62.65	19.367	
14,200.00	13,108.00	13,510.04	12,643.00	42.37	43.80	-67.467	-1,749.45	881.22	1,213.40	1,149.02	64.38	18.848	
14,300.00	13,108.00	13,610.04	12,643.00	42.69	43.98	-67.466	-1,849.45	882.19	1,213.36	1,147.19	66.17	18.337	
14,400.00	13,108.00	13,710.04	12,643.00	43.06	44.20	-67.465	-1,949.44	883.15	1,213.32	1,145.30	68.02	17.837	
14,500.00	13,108.00	13,810.04	12,643.00	43.48	44.46	-67.465	-2,049.44	884.12	1,213.29	1,143.36	69.93	17.349	
14,600.00	13,108.00	13,910.04	12,643.00	43.97	44.78	-67.464	-2,149.43	885.08	1,213.25	1,141.36	71.90	16.875	
14,700.00	13,108.00	14,010.04	12,643.00	44.53	45.15	-67.463	-2,249.43	886.05	1,213.22	1,139.31	73.91	16.415	
14,800.00	13,108.00	14,110.04	12,643.00	45.16	45.59	-67.462	-2,349.43	887.02	1,213.18	1,137.22	75.96	15.971	
14,900.00	13,108.00	14,210.04	12,643.00	45.87	46.11	-67.462	-2,449.42	887.98	1,213.15	1,135.09	78.06	15.542	
15,000.00	13,108.00	14,310.04	12,643.00	46.64	46.71	-67.461	-2,549.42	888.95	1,213.11	1,132.92	80.19	15.128	
15,100.00	13,108.00	14,410.04	12,643.00	47.49	47.40	-67.460	-2,649.41	889.91	1,213.08	1,130.72	82.36	14.729	
15,200.00	13,108.00	14,510.04	12,643.00	48.39	48.17	-67.460	-2,749.41	890.88	1,213.04	1,128.49	84.56	14.346	
15,300.00	13,108.00	14,610.04	12,643.00	49.36	49.03	-67.459	-2,849.40	891.85	1,213.01	1,126.22	86.79	13.977	
15,400.00	13,108.00	14,710.04	12,643.00	50.38	49.96	-67.458	-2,949.40	892.81	1,212.97	1,123.93	89.04	13.622	
15,500.00	13,108.00	14,810.04	12,643.00	51.44	50.95	-67.458	-3,049.39	893.78	1,212.94	1,121.61	91.32	13.282	
15,600.00	13,108.00	14,910.04	12,643.00	52.54	52.00	-67.457	-3,149.39	894.74	1,212.90	1,119.27	93.63	12.954	
15,700.00	13,108.00	15,010.04	12,643.00	53.67	53.10	-67.456	-3,249.38	895.71	1,212.87	1,116.91	95.96	12.640	
15,800.00	13,108.00	15,110.04	12,643.00	54.84	54.24	-67.456	-3,349.38	896.68	1,212.83	1,114.53	98.30	12.338	
15,900.00	13,108.00	15,210.04	12,643.00	56.02	55.41	-67.455	-3,449.37	897.64	1,212.80	1,112.13	100.67	12.047	
16,000.00	13,108.00	15,310.04	12,643.00	57.24	56.61	-67.454	-3,549.37	898.61	1,212.76	1,109.71	103.05	11.768	
16,100.00	13,108.00	15,410.04	12,643.00	58.47	57.84	-67.453	-3,649.36	899.58	1,212.73	1,107.27	105.45	11.500	
16,200.00	13,108.00	15,510.04	12,643.00	59.71	59.09	-67.453	-3,749.36	900.54	1,212.69	1,104.82	107.87	11.242	
16,300.00	13,108.00	15,610.04	12,643.00	60.97	60.35	-67.452	-3,849.35	901.51	1,212.66	1,102.36	110.30	10.995	
16,400.00	13,108.00	15,710.04	12,643.00	62.25	61.63	-67.451	-3,949.35	902.47	1,212.62	1,099.88	112.74	10.756	
16,500.00	13,108.00	15,810.04	12,643.00	63.53	62.92	-67.451	-4,049.35	903.44	1,212.58	1,097.39	115.19	10.527	
16,600.00	13,108.00	15,910.04	12,643.00	64.83	64.22	-67.450	-4,149.34	904.41	1,212.55	1,094.89	117.66	10.306	
16,700.00	13,108.00	16,010.04	12,643.00	66.13	65.53	-67.449	-4,249.34	905.37	1,212.51	1,092.38	120.14	10.093	
16,800.00	13,108.00	16,110.04	12,643.00	67.45	66.85	-67.449	-4,349.33	906.34	1,212.48	1,089.85	122.62	9.888	
16,900.00	13,108.00	16,210.04	12,643.00	68.77	68.18	-67.448	-4,449.33	907.30	1,212.44	1,087.32	125.12	9.690	
17,000.00	13,108.00	16,310.04	12,643.00	70.10	69.51	-67.447	-4,549.32	908.27	1,212.41	1,084.78	127.63	9.500	
17,100.00	13,108.00	16,410.04	12,643.00	71.43	70.85	-67.447	-4,649.32	909.24	1,212.37	1,082.23	130.14	9.316	
17,200.00	13,108.00	16,510.04	12,643.00	72.77	72.20	-67.446	-4,749.31	910.20	1,212.34	1,079.67	132.67	9.138	
17,300.00	13,108.00	16,610.04	12,643.00	74.11	73.55	-67.445	-4,849.31	911.17	1,212.30	1,077.11	135.20	8.967	
17,400.00	13,108.00	16,710.04	12,643.00	75.46	74.91	-67.444	-4,949.30	912.14	1,212.27	1,074.53	137.73	8.802	
17,500.00	13,108.00	16,810.04	12,643.00	76.81	76.27	-67.444	-5,049.30	913.10	1,212.23	1,071.95	140.28	8.642	
17,600.00	13,108.00	16,910.04	12,643.00	78.17	77.63	-67.443	-5,149.29	914.07	1,212.20	1,069.37	142.83	8.487	
17,700.00	13,108.00	17,010.04	12,643.00	79.53	79.00	-67.442	-5,249.29	915.03	1,212.16	1,066.77	145.39	8.337	
17,800.00	13,108.00	17,110.04	12,643.00	80.89	80.37	-67.442	-5,349.28	916.00	1,212.13	1,064.18	147.95	8.193	
17,900.00	13,108.00	17,210.04	12,643.00	82.26	81.74	-67.441	-5,449.28	916.97	1,212.09	1,061.57	150.52	8.053	
18,000.00	13,108.00	17,310.04	12,643.00	83.63	83.12	-67.440	-5,549.28	917.93	1,212.06	1,058.96	153.09	7.917	
18,100.00	13,108.00	17,410.04	12,643.00	85.00	84.50	-67.440	-5,649.27	918.90	1,212.02	1,056.35	155.67	7.786	
18,200.00	13,108.00	17,510.04	12,643.00	86.38	85.88	-67.439	-5,749.27	919.86	1,211.99	1,053.73	158.25	7.658	
18,300.00	13,108.00	17,610.04	12,643.00	87.76	87.26	-67.438	-5,849.26	920.83	1,211.95	1,051.11	160.84	7.535	
18,400.00	13,108.00	17,710.04	12,643.00	89.14	88.65	-67.438	-5,949.26	921.80	1,211.92	1,048.48	163.43	7.415	
18,500.00	13,108.00	17,810.04	12,643.00	90.52	90.03	-67.437	-6,049.25	922.76	1,211.88	1,045.85	166.03	7.299	
18,600.00	13,108.00	17,910.04	12,643.00	91.90	91.42	-67.436	-6,149.25	923.73	1,211.84	1,043.21	168.63	7.186	
18,700.00	13,108.00	18,010.04	12,643.00	93.29	92.81	-67.435	-6,249.24	924.69	1,211.81	1,040.58	171.23	7.077	
18,800.00	13,108.00	18,110.04	12,643.00	94.68	94.21	-67.435	-6,349.24	925.66	1,211.77	1,037.93	173.84	6.971	
18,900.00	13,108.00	18,210.04	12,643.00	96.06	95.60	-67.434	-6,449.23	926.63	1,211.74	1,035.29	176.45	6.867	
19,000.00	13,108.00	18,310.04	12,643.00	97.46	96.99	-67.433	-6,549.23	927.59	1,211.70	1,032.64	179.07	6.767	
19,100.00	13,108.00	18,410.04	12,643.00	98.85	98.39	-67.433	-6,649.22	928.56	1,211.67	1,029.99	181.68	6.669	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 413H - OH - Plan 1 08-31-22													Offset Site Error:	0.00 usft	
Survey Program:		0-MWD+HRGM		Offset		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	13,108.00	18,510.04	12,643.00	100.24	99.79	-67.432	-6,749.22	929.53	1,211.63	1,027.33	184.30	6.574			
19,300.00	13,108.00	18,610.04	12,643.00	101.64	101.19	-67.431	-6,849.21	930.49	1,211.60	1,024.67	186.93	6.482			
19,400.00	13,108.00	18,710.04	12,643.00	103.03	102.59	-67.431	-6,949.21	931.46	1,211.56	1,022.01	189.55	6.392			
19,500.00	13,108.00	18,810.04	12,643.00	104.43	103.99	-67.430	-7,049.21	932.42	1,211.53	1,019.35	192.18	6.304			
19,600.00	13,108.00	18,910.04	12,643.00	105.83	105.39	-67.429	-7,149.20	933.39	1,211.49	1,016.68	194.81	6.219			
19,700.00	13,108.00	19,010.04	12,643.00	107.23	106.80	-67.429	-7,249.20	934.36	1,211.46	1,014.01	197.44	6.136			
19,800.00	13,108.00	19,110.04	12,643.00	108.63	108.20	-67.428	-7,349.19	935.32	1,211.42	1,011.34	200.08	6.055			
19,900.00	13,108.00	19,210.04	12,643.00	110.03	109.61	-67.427	-7,449.19	936.29	1,211.39	1,008.67	202.72	5.976			
20,000.00	13,108.00	19,310.04	12,643.00	111.43	111.01	-67.426	-7,549.18	937.25	1,211.35	1,006.00	205.36	5.899			
20,100.00	13,108.00	19,410.04	12,643.00	112.84	112.42	-67.426	-7,649.18	938.22	1,211.32	1,003.32	208.00	5.824			
20,200.00	13,108.00	19,510.04	12,643.00	114.24	113.83	-67.425	-7,749.17	939.19	1,211.28	1,000.64	210.64	5.750			
20,300.00	13,108.00	19,610.04	12,643.00	115.65	115.23	-67.424	-7,849.17	940.15	1,211.25	997.96	213.29	5.679			
20,400.00	13,108.00	19,710.04	12,643.00	117.05	116.64	-67.424	-7,949.16	941.12	1,211.21	995.28	215.93	5.609			
20,500.00	13,108.00	19,810.04	12,643.00	118.46	118.05	-67.423	-8,049.16	942.09	1,211.18	992.59	218.58	5.541			
20,600.00	13,108.00	19,910.04	12,643.00	119.87	119.46	-67.422	-8,149.15	943.05	1,211.14	989.91	221.23	5.474			
20,700.00	13,108.00	20,010.04	12,643.00	121.28	120.88	-67.422	-8,249.15	944.02	1,211.10	987.22	223.89	5.409			
20,800.00	13,108.00	20,110.04	12,643.00	122.68	122.29	-67.421	-8,349.14	944.98	1,211.07	984.53	226.54	5.346			
20,900.00	13,108.00	20,210.04	12,643.00	124.09	123.70	-67.420	-8,449.14	945.95	1,211.03	981.84	229.20	5.284			
21,000.00	13,108.00	20,310.04	12,643.00	125.51	125.11	-67.420	-8,549.14	946.92	1,211.00	979.15	231.85	5.223			
21,100.00	13,108.00	20,410.04	12,643.00	126.92	126.53	-67.419	-8,649.13	947.88	1,210.96	976.45	234.51	5.164			
21,200.00	13,108.00	20,510.04	12,643.00	128.33	127.94	-67.418	-8,749.13	948.85	1,210.93	973.76	237.17	5.106			
21,300.00	13,108.00	20,610.04	12,643.00	129.74	129.35	-67.417	-8,849.12	949.81	1,210.89	971.06	239.83	5.049			
21,400.00	13,108.00	20,710.04	12,643.00	131.15	130.77	-67.417	-8,949.12	950.78	1,210.86	968.36	242.50	4.993			
21,500.00	13,108.00	20,810.04	12,643.00	132.57	132.19	-67.416	-9,049.11	951.75	1,210.82	965.66	245.16	4.939			
21,600.00	13,108.00	20,910.04	12,643.00	133.98	133.60	-67.415	-9,149.11	952.71	1,210.79	962.96	247.82	4.886			
21,700.00	13,108.00	21,010.04	12,643.00	135.39	135.02	-67.415	-9,249.10	953.68	1,210.75	960.26	250.49	4.834			
21,800.00	13,108.00	21,110.04	12,643.00	136.81	136.43	-67.414	-9,349.10	954.64	1,210.72	957.56	253.16	4.782			
21,900.00	13,108.00	21,210.04	12,643.00	138.22	137.85	-67.413	-9,449.09	955.61	1,210.68	954.86	255.82	4.732			
22,000.00	13,108.00	21,310.04	12,643.00	139.64	139.27	-67.413	-9,549.09	956.58	1,210.65	952.15	258.49	4.683			
22,100.00	13,108.00	21,410.04	12,643.00	141.06	140.69	-67.412	-9,649.08	957.54	1,210.61	949.45	261.16	4.635			
22,200.00	13,108.00	21,510.04	12,643.00	142.47	142.11	-67.411	-9,749.08	958.51	1,210.58	946.74	263.84	4.588			
22,300.00	13,108.00	21,610.04	12,643.00	143.89	143.52	-67.411	-9,849.07	959.48	1,210.54	944.03	266.51	4.542			
22,400.00	13,108.00	21,710.04	12,643.00	145.31	144.94	-67.410	-9,949.07	960.44	1,210.51	941.33	269.18	4.497			
22,500.00	13,108.00	21,810.04	12,643.00	146.72	146.36	-67.409	-10,049.07	961.41	1,210.47	938.62	271.85	4.453			
22,600.00	13,108.00	21,910.04	12,643.00	148.14	147.78	-67.408	-10,149.06	962.37	1,210.44	935.91	274.53	4.409			
22,700.00	13,108.00	22,010.04	12,643.00	149.56	149.20	-67.408	-10,249.06	963.34	1,210.40	933.19	277.21	4.366			
22,800.00	13,108.00	22,110.04	12,643.00	150.98	150.62	-67.407	-10,349.05	964.31	1,210.37	930.48	279.88	4.325			
22,889.04	13,108.00	22,199.08	12,643.00	152.24	151.89	-67.406	-10,438.09	965.17	1,210.33	928.07	282.27	4.288			
22,900.00	13,108.00	22,199.47	12,643.00	152.40	151.89	-67.406	-10,438.48	965.17	1,210.38	928.07	282.31	4.287 ES, SF			
23,000.00	13,108.00	22,199.47	12,643.00	153.82	151.89	-67.406	-10,438.48	965.17	1,215.33	933.65	281.69	4.314			
23,100.00	13,108.00	22,199.47	12,643.00	155.24	151.89	-67.406	-10,438.48	965.17	1,228.44	949.05	279.39	4.397			
23,200.00	13,108.00	22,199.47	12,643.00	156.66	151.89	-67.406	-10,438.48	965.17	1,249.44	973.85	275.59	4.534			
23,247.14	13,108.00	22,199.47	12,643.00	157.33	151.89	-67.406	-10,438.48	965.17	1,261.96	988.63	273.33	4.617			

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 432H - OH - Plan 1 08-31-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	1.00	1.00	89.580	0.22	30.00	30.00				
100.00	100.00	100.00	100.00	1.08	1.08	89.580	0.22	30.00	30.00	27.83	2.17	13.836	
200.00	200.00	200.00	200.00	1.60	1.60	89.580	0.22	30.00	30.00	26.80	3.20	9.383	
300.00	300.00	300.00	300.00	2.01	2.01	89.580	0.22	30.00	30.00	25.98	4.02	7.464	
400.00	400.00	400.00	400.00	2.35	2.35	89.580	0.22	30.00	30.00	25.30	4.71	6.376	
500.00	500.00	500.00	500.00	2.65	2.65	89.580	0.22	30.00	30.00	24.69	5.31	5.652	
600.00	600.00	600.00	600.00	2.93	2.93	89.580	0.22	30.00	30.00	24.15	5.85	5.125	
700.00	700.00	700.00	700.00	3.18	3.18	89.580	0.22	30.00	30.00	23.64	6.36	4.719	
800.00	800.00	800.00	800.00	3.41	3.41	89.580	0.22	30.00	30.00	23.17	6.83	4.394	
900.00	900.00	900.00	900.00	3.64	3.64	89.580	0.22	30.00	30.00	22.73	7.27	4.126	
1,000.00	1,000.00	1,000.00	1,000.00	3.85	3.85	89.580	0.22	30.00	30.00	22.31	7.69	3.900	
1,100.00	1,100.00	1,100.00	1,100.00	4.05	4.05	89.580	0.22	30.00	30.00	21.91	8.09	3.706	
1,200.00	1,200.00	1,200.00	1,200.00	4.24	4.24	89.580	0.22	30.00	30.00	21.52	8.48	3.537	
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	89.580	0.22	30.00	30.00	21.15	8.85	3.388	
1,400.00	1,400.00	1,400.00	1,400.00	4.61	4.61	89.580	0.22	30.00	30.00	20.79	9.21	3.256	
1,500.00	1,500.00	1,500.00	1,500.00	4.78	4.78	89.580	0.22	30.00	30.00	20.44	9.56	3.137 CC, ES	
1,600.00	1,599.98	1,599.57	1,599.55	4.99	4.98	-120.407	-1.37	30.69	31.57	21.72	9.85	3.205	
1,638.42	1,638.36	1,637.84	1,637.78	5.04	5.02	-120.269	-2.80	31.31	33.00	23.11	9.89	3.337	
1,700.00	1,699.87	1,699.37	1,699.25	5.10	5.08	-120.367	-5.31	32.39	35.58	25.60	9.98	3.565	
1,800.00	1,799.76	1,799.28	1,799.07	5.26	5.24	-120.500	-9.37	34.15	39.77	29.53	10.23	3.886	
1,900.00	1,899.64	1,899.19	1,898.88	5.44	5.42	-120.607	-13.44	35.91	43.96	33.44	10.51	4.181	
2,000.00	1,999.52	1,999.10	1,998.70	5.64	5.61	-120.696	-17.50	37.67	48.15	37.35	10.80	4.458	
2,100.00	2,099.41	2,099.01	2,098.51	5.84	5.82	-120.771	-21.57	39.43	52.34	41.25	11.09	4.719	
2,200.00	2,199.29	2,198.93	2,198.32	6.07	6.03	-120.834	-25.63	41.19	56.53	45.14	11.38	4.965	
2,300.00	2,299.17	2,298.84	2,298.14	6.30	6.26	-120.889	-29.69	42.95	60.72	49.03	11.68	5.197	
2,400.00	2,399.06	2,398.75	2,397.95	6.54	6.50	-120.936	-33.76	44.71	64.91	52.92	11.98	5.416	
2,500.00	2,498.94	2,498.66	2,497.76	6.79	6.74	-120.978	-37.82	46.47	69.10	56.81	12.29	5.623	
2,600.00	2,598.82	2,598.58	2,597.58	7.04	6.99	-121.015	-41.89	48.23	73.29	60.69	12.60	5.818	
2,700.00	2,698.71	2,698.49	2,697.39	7.31	7.25	-121.048	-45.95	49.99	77.48	64.57	12.91	6.002	
2,800.00	2,798.59	2,798.40	2,797.21	7.58	7.51	-121.078	-50.02	51.75	81.67	68.45	13.22	6.177	
2,900.00	2,898.47	2,898.31	2,897.02	7.85	7.78	-121.105	-54.08	53.51	85.86	72.32	13.54	6.343	
3,000.00	2,998.36	2,998.22	2,996.83	8.13	8.05	-121.129	-58.15	55.27	90.05	76.19	13.85	6.499	
3,100.00	3,098.24	3,098.14	3,096.65	8.41	8.33	-121.151	-62.21	57.03	94.24	80.06	14.17	6.648	
3,200.00	3,198.12	3,198.05	3,196.46	8.70	8.61	-121.172	-66.28	58.79	98.43	83.93	14.50	6.790	
3,300.00	3,298.01	3,297.96	3,296.28	8.99	8.89	-121.190	-70.34	60.55	102.62	87.80	14.82	6.924	
3,400.00	3,397.89	3,397.87	3,396.09	9.28	9.18	-121.207	-74.40	62.31	106.81	91.66	15.15	7.052	
3,500.00	3,497.77	3,497.79	3,495.90	9.58	9.47	-121.223	-78.47	64.07	111.00	95.53	15.47	7.174	
3,600.00	3,597.66	3,597.70	3,595.72	9.88	9.76	-121.238	-82.53	65.83	115.19	99.39	15.80	7.290	
3,700.00	3,697.54	3,697.61	3,695.53	10.18	10.06	-121.251	-86.60	67.59	119.38	103.25	16.13	7.401	
3,800.00	3,797.42	3,797.52	3,795.35	10.49	10.36	-121.264	-90.66	69.35	123.57	107.11	16.46	7.507	
3,900.00	3,897.31	3,897.43	3,895.16	10.79	10.66	-121.276	-94.73	71.11	127.76	110.97	16.79	7.608	
4,000.00	3,997.19	3,997.35	3,994.97	11.10	10.96	-121.287	-98.79	72.87	131.95	114.82	17.13	7.704	
4,100.00	4,097.07	4,097.26	4,094.79	11.41	11.26	-121.298	-102.86	74.63	136.14	118.68	17.46	7.797	
4,200.00	4,196.96	4,197.17	4,194.60	11.72	11.56	-121.307	-106.92	76.39	140.33	122.54	17.80	7.885	
4,300.00	4,296.84	4,297.08	4,294.42	12.03	11.87	-121.317	-110.99	78.15	144.52	126.39	18.13	7.970	
4,400.00	4,396.72	4,396.99	4,394.23	12.35	12.18	-121.325	-115.05	79.91	148.71	130.24	18.47	8.051	
4,500.00	4,496.61	4,496.91	4,494.04	12.66	12.48	-121.334	-119.11	81.67	152.90	134.10	18.81	8.129	
4,600.00	4,596.49	4,596.82	4,593.86	12.98	12.79	-121.342	-123.18	83.43	157.10	137.95	19.15	8.204	
4,700.00	4,696.37	4,696.73	4,693.67	13.29	13.10	-121.349	-127.24	85.19	161.29	141.80	19.49	8.276	
4,800.00	4,796.26	4,796.64	4,793.49	13.61	13.41	-121.356	-131.31	86.95	165.48	145.65	19.83	8.345	
4,900.00	4,896.14	4,896.56	4,893.30	13.93	13.73	-121.363	-135.37	88.71	169.67	149.50	20.17	8.412	
5,000.00	4,996.02	4,996.47	4,993.11	14.25	14.04	-121.369	-139.44	90.47	173.86	153.35	20.51	8.476	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 432H - OH - Plan 1 08-31-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	5,095.91	5,096.38	5,092.93	14.57	14.35	-121.375	-143.50	92.23	178.05	157.19	20.85	8.538	
5,200.00	5,195.79	5,196.29	5,192.74	14.89	14.67	-121.381	-147.57	93.99	182.24	161.04	21.20	8.597	
5,300.00	5,295.67	5,296.20	5,292.56	15.21	14.98	-121.386	-151.63	95.75	186.43	164.89	21.54	8.654	
5,400.00	5,395.56	5,396.12	5,392.37	15.54	15.30	-121.392	-155.70	97.51	190.62	168.73	21.89	8.710	
5,500.00	5,495.44	5,496.03	5,492.18	15.86	15.61	-121.397	-159.76	99.26	194.81	172.58	22.23	8.763	
5,600.00	5,595.32	5,595.94	5,592.00	16.19	15.93	-121.402	-163.82	101.02	199.00	176.43	22.58	8.815	
5,700.00	5,695.21	5,695.85	5,691.81	16.51	16.25	-121.406	-167.89	102.78	203.19	180.27	22.92	8.865	
5,800.00	5,795.09	5,795.76	5,791.62	16.83	16.57	-121.411	-171.95	104.54	207.38	184.11	23.27	8.913	
5,900.00	5,894.97	5,895.68	5,891.44	17.16	16.88	-121.415	-176.02	106.30	211.57	187.96	23.61	8.960	
6,000.00	5,994.86	5,995.59	5,991.25	17.49	17.20	-121.419	-180.08	108.06	215.76	191.80	23.96	9.005	
6,100.00	6,094.74	6,095.50	6,091.07	17.81	17.52	-121.423	-184.15	109.82	219.95	195.65	24.31	9.049	
6,200.00	6,194.62	6,195.41	6,190.88	18.14	17.84	-121.427	-188.21	111.58	224.14	199.49	24.66	9.091	
6,300.00	6,294.51	6,295.33	6,290.69	18.47	18.16	-121.431	-192.28	113.34	228.33	203.33	25.00	9.132	
6,400.00	6,394.39	6,395.24	6,390.51	18.79	18.48	-121.434	-196.34	115.10	232.53	207.17	25.35	9.172	
6,500.00	6,494.27	6,495.15	6,490.32	19.12	18.80	-121.437	-200.41	116.86	236.72	211.01	25.70	9.210	
6,600.00	6,594.16	6,595.06	6,590.14	19.45	19.13	-121.441	-204.47	118.62	240.91	214.86	26.05	9.248	
6,700.00	6,694.04	6,694.97	6,689.95	19.78	19.45	-121.444	-208.53	120.38	245.10	218.70	26.40	9.284	
6,800.00	6,793.92	6,794.89	6,789.76	20.11	19.77	-121.447	-212.60	122.14	249.29	222.54	26.75	9.320	
6,900.00	6,893.81	6,894.80	6,889.58	20.44	20.09	-121.450	-216.66	123.90	253.48	226.38	27.10	9.354	
7,000.00	6,993.69	6,994.71	6,989.39	20.77	20.41	-121.453	-220.73	125.66	257.67	230.22	27.45	9.387	
7,100.00	7,093.57	7,094.62	7,089.21	21.10	20.74	-121.456	-224.79	127.42	261.86	234.06	27.80	9.420	
7,200.00	7,193.46	7,194.53	7,189.02	21.43	21.06	-121.458	-228.86	129.18	266.05	237.90	28.15	9.451	
7,300.00	7,293.34	7,294.45	7,288.83	21.76	21.38	-121.461	-232.92	130.94	270.24	241.74	28.50	9.482	
7,400.00	7,393.22	7,394.36	7,388.65	22.09	21.71	-121.463	-236.99	132.70	274.43	245.58	28.85	9.512	
7,500.00	7,493.11	7,494.27	7,488.46	22.42	22.03	-121.466	-241.05	134.46	278.62	249.42	29.20	9.541	
7,600.00	7,592.99	7,594.18	7,588.28	22.75	22.35	-121.468	-245.12	136.22	282.81	253.26	29.55	9.569	
7,700.00	7,692.87	7,694.10	7,688.09	23.08	22.68	-121.471	-249.18	137.98	287.00	257.10	29.91	9.597	
7,800.00	7,792.76	7,794.01	7,787.90	23.41	23.00	-121.473	-253.25	139.74	291.19	260.93	30.26	9.624	
7,900.00	7,892.64	7,893.92	7,887.72	23.74	23.33	-121.475	-257.31	141.50	295.38	264.77	30.61	9.650	
8,000.00	7,992.52	7,993.83	7,987.53	24.07	23.65	-121.477	-261.37	143.26	299.57	268.61	30.96	9.675	
8,100.00	8,092.41	8,093.74	8,087.35	24.40	23.97	-121.479	-265.44	145.02	303.76	272.45	31.32	9.700	
8,200.00	8,192.29	8,193.66	8,187.16	24.74	24.30	-121.481	-269.50	146.78	307.96	276.29	31.67	9.724	
8,300.00	8,292.17	8,293.57	8,286.97	25.07	24.62	-121.483	-273.57	148.54	312.15	280.12	32.02	9.748	
8,400.00	8,392.06	8,393.48	8,386.79	25.40	24.95	-121.485	-277.63	150.30	316.34	283.96	32.37	9.771	
8,500.00	8,491.94	8,493.39	8,486.60	25.73	25.27	-121.487	-281.70	152.06	320.53	287.80	32.73	9.794	
8,600.00	8,591.82	8,593.31	8,586.42	26.07	25.60	-121.489	-285.76	153.82	324.72	291.64	33.08	9.816	
8,700.00	8,691.71	8,693.22	8,686.23	26.40	25.93	-121.490	-289.83	155.58	328.91	295.47	33.43	9.838	
8,800.00	8,791.59	8,793.13	8,786.04	26.73	26.25	-121.492	-293.89	157.34	333.10	299.31	33.79	9.859	
8,900.00	8,891.47	8,893.04	8,885.86	27.06	26.58	-121.494	-297.96	159.10	337.29	303.15	34.14	9.879	
9,000.00	8,991.36	8,992.95	8,985.67	27.40	26.90	-121.496	-302.02	160.86	341.48	306.98	34.50	9.899	
9,100.00	9,091.24	9,092.87	9,085.48	27.73	27.23	-121.497	-306.08	162.62	345.67	310.82	34.85	9.919	
9,200.00	9,191.12	9,192.78	9,185.30	28.06	27.56	-121.499	-310.15	164.38	349.86	314.66	35.20	9.938	
9,300.00	9,291.01	9,292.69	9,285.11	28.40	27.88	-121.500	-314.21	166.14	354.05	318.49	35.56	9.957	
9,400.00	9,390.89	9,392.60	9,384.93	28.73	28.21	-121.502	-318.28	167.90	358.24	322.33	35.91	9.976	
9,500.00	9,490.77	9,492.51	9,484.74	29.06	28.53	-121.503	-322.34	169.66	362.43	326.17	36.27	9.994	
9,600.00	9,590.66	9,592.43	9,584.55	29.40	28.86	-121.505	-326.41	171.42	366.62	330.00	36.62	10.011	
9,700.00	9,690.54	9,692.34	9,684.37	29.73	29.19	-121.506	-330.47	173.18	370.81	333.84	36.98	10.028	
9,800.00	9,790.42	9,792.25	9,784.18	30.06	29.51	-121.507	-334.54	174.94	375.00	337.67	37.33	10.045	
9,900.00	9,890.31	9,892.16	9,884.00	30.40	29.84	-121.509	-338.60	176.70	379.19	341.51	37.69	10.062	
10,000.00	9,990.19	9,992.08	9,983.81	30.73	30.17	-121.510	-342.67	178.46	383.39	345.34	38.04	10.078	
10,100.00	10,090.07	10,091.99	10,083.62	31.07	30.50	-121.511	-346.73	180.22	387.58	349.18	38.40	10.094	
10,200.00	10,189.96	10,191.90	10,183.44	31.40	30.82	-121.512	-350.79	181.98	391.77	353.01	38.75	10.110	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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:												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	
10,300.00	10,289.84	10,291.81	10,283.25	31.74	31.15	-121.514	-354.86	183.73	395.96	356.85	39.11	10.125	
10,400.00	10,389.72	10,391.72	10,383.07	32.07	31.48	-121.515	-358.92	185.49	400.15	360.69	39.46	10.140	
10,500.00	10,489.60	10,491.64	10,482.88	32.40	31.80	-121.516	-362.99	187.25	404.34	364.52	39.82	10.155	
10,600.00	10,589.49	10,591.55	10,582.69	32.74	32.13	-121.517	-367.05	189.01	408.53	368.36	40.17	10.169	
10,700.00	10,689.37	10,691.46	10,682.51	33.07	32.46	-121.518	-371.12	190.77	412.72	372.19	40.53	10.183	
10,800.00	10,789.25	10,791.37	10,782.32	33.41	32.79	-121.519	-375.18	192.53	416.91	376.02	40.88	10.197	
10,900.00	10,889.14	10,891.28	10,882.14	33.74	33.11	-121.520	-379.25	194.29	421.10	379.86	41.24	10.211	
11,000.00	10,989.02	10,991.20	10,981.95	34.08	33.44	-121.521	-383.31	196.05	425.29	383.69	41.60	10.224	
11,100.00	11,088.90	11,091.11	11,081.76	34.41	33.77	-121.522	-387.38	197.81	429.48	387.53	41.95	10.237	
11,200.00	11,188.79	11,191.02	11,181.58	34.75	34.10	-121.523	-391.44	199.57	433.67	391.36	42.31	10.250	
11,300.00	11,288.67	11,290.93	11,281.39	35.08	34.43	-121.524	-395.50	201.33	437.86	395.20	42.66	10.263	
11,400.00	11,388.55	11,390.85	11,381.21	35.42	34.75	-121.525	-399.57	203.09	442.05	399.03	43.02	10.275	
11,500.00	11,488.44	11,490.76	11,481.02	35.75	35.08	-121.526	-403.63	204.85	446.24	402.87	43.38	10.287	
11,600.00	11,588.32	11,593.16	11,583.34	36.09	35.40	-121.564	-407.51	206.53	450.32	406.61	43.72	10.301	
11,700.00	11,688.20	11,698.04	11,688.20	36.42	35.53	-121.963	-408.66	207.03	453.31	409.32	43.99	10.306	
11,800.00	11,788.09	11,797.93	11,788.09	36.76	35.53	-122.478	-408.66	207.03	455.88	411.67	44.22	10.310	
11,900.00	11,887.97	11,897.81	11,887.97	37.09	35.54	-122.986	-408.66	207.03	458.50	414.04	44.46	10.312	
11,908.72	11,896.68	11,906.52	11,896.68	37.12	35.54	-123.030	-408.66	207.03	458.73	414.25	44.48	10.313	
12,000.00	11,987.91	11,997.75	11,987.91	37.41	35.55	-123.366	-408.66	207.03	460.35	415.66	44.68	10.302	
12,047.14	12,035.04	12,044.88	12,035.04	37.47	35.55	86.781	-408.66	207.03	460.56	415.83	44.72	10.298	
12,100.00	12,087.91	12,097.75	12,087.91	37.47	35.55	86.781	-408.66	207.03	460.56	415.83	44.73	10.297	
12,200.00	12,187.91	12,198.51	12,188.66	37.48	35.58	86.827	-409.03	207.03	460.54	415.81	44.73	10.296	
12,300.00	12,287.91	12,300.48	12,289.71	37.48	36.10	88.406	-421.73	207.16	460.14	415.41	44.73	10.286	
12,335.13	12,323.04	12,334.83	12,323.04	37.48	36.31	89.439	-430.02	207.24	460.06	415.33	44.74	10.284	
12,400.00	12,387.91	12,395.20	12,380.19	37.49	36.69	91.849	-449.38	207.43	460.54	415.76	44.77	10.286	
12,500.00	12,487.91	12,478.97	12,455.47	37.50	37.21	96.373	-485.97	207.79	464.59	419.55	45.04	10.315	
12,547.14	12,535.04	12,514.26	12,485.43	37.49	37.42	98.647	-504.59	207.97	468.70	423.40	45.30	10.347	
12,550.00	12,537.91	12,516.32	12,487.14	37.50	37.43	-80.609	-505.74	207.98	469.01	423.69	45.32	10.349	
12,600.00	12,587.83	12,550.00	12,514.55	37.64	37.63	-77.816	-525.31	208.17	475.03	429.29	45.73	10.387	
12,650.00	12,637.36	12,586.57	12,542.95	37.90	37.84	-74.876	-548.34	208.40	482.16	435.88	46.28	10.419	
12,700.00	12,686.10	12,620.64	12,568.03	38.17	38.02	-72.160	-571.38	208.62	490.16	443.25	46.92	10.448	
12,750.00	12,733.70	12,650.00	12,588.52	38.46	38.18	-69.781	-592.41	208.83	498.82	451.21	47.60	10.478	
12,800.00	12,779.78	12,687.13	12,612.84	38.75	38.35	-67.137	-620.46	209.10	507.82	459.45	48.37	10.498	
12,850.00	12,824.00	12,719.71	12,632.65	39.03	38.50	-64.862	-646.31	209.35	517.04	467.90	49.14	10.522	
12,900.00	12,866.02	12,750.00	12,649.72	39.31	38.63	-62.830	-671.33	209.60	526.24	476.36	49.88	10.550	
12,950.00	12,905.52	12,783.79	12,667.17	39.57	38.76	-60.836	-700.26	209.88	535.25	484.62	50.63	10.571	
13,000.00	12,942.21	12,815.40	12,681.92	39.82	38.87	-59.095	-728.21	210.16	543.91	492.59	51.33	10.597	
13,050.00	12,975.79	12,850.00	12,696.28	40.06	38.99	-57.544	-759.68	210.46	552.10	500.08	52.02	10.613	
13,100.00	13,006.02	12,877.93	12,706.46	40.27	39.06	-56.161	-785.68	210.72	559.66	507.07	52.59	10.643	
13,150.00	13,032.66	12,900.00	12,713.61	40.46	39.12	-55.125	-806.56	210.92	566.62	513.59	53.03	10.685	
13,200.00	13,055.52	12,939.76	12,724.43	40.63	39.21	-53.946	-844.82	211.30	572.56	518.90	53.66	10.670	
13,250.00	13,074.42	12,970.49	12,730.97	40.77	39.27	-53.100	-874.83	211.59	577.73	523.59	54.14	10.671	
13,300.00	13,089.21	13,000.00	12,735.72	40.89	39.31	-52.435	-903.95	211.88	581.96	527.39	54.57	10.665	
13,350.00	13,099.79	13,031.67	12,739.14	40.99	39.35	-51.917	-935.44	212.18	585.20	530.20	55.00	10.640	
13,400.00	13,106.06	13,062.18	12,740.79	41.06	39.38	-51.574	-965.89	212.48	587.42	532.04	55.38	10.606	
13,447.14	13,108.00	13,099.24	12,741.00	41.11	39.40	-51.411	-1,002.95	212.84	588.40	532.60	55.80	10.545	
13,500.00	13,108.00	13,152.11	12,741.00	41.15	39.43	-51.410	-1,055.82	213.36	588.39	532.03	56.35	10.441	
13,600.00	13,108.00	13,252.11	12,741.00	41.25	39.50	-51.409	-1,155.81	214.34	588.37	530.93	57.43	10.244	
13,700.00	13,108.00	13,352.11	12,741.00	41.37	39.58	-51.407	-1,255.81	215.32	588.35	529.75	58.60	10.040	
13,800.00	13,108.00	13,452.11	12,741.00	41.51	39.68	-51.406	-1,355.80	216.30	588.33	528.49	59.84	9.832	
13,900.00	13,108.00	13,552.11	12,741.00	41.67	39.79	-51.404	-1,455.80	217.27	588.31	527.15	61.15	9.620	
14,000.00	13,108.00	13,652.11	12,741.00	41.87	39.93	-51.402	-1,555.79	218.25	588.29	525.75	62.53	9.407	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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 (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	13,108.00	13,752.11	12,741.00	42.10	40.10	-51.401	-1,655.79	219.23	588.26	524.29	63.98	9.195	
14,200.00	13,108.00	13,852.11	12,741.00	42.37	40.30	-51.399	-1,755.78	220.21	588.24	522.76	65.48	8.984	
14,300.00	13,108.00	13,952.11	12,741.00	42.69	40.55	-51.398	-1,855.78	221.19	588.22	521.19	67.04	8.774	
14,400.00	13,108.00	14,052.11	12,741.00	43.06	40.84	-51.396	-1,955.77	222.17	588.20	519.56	68.65	8.568	
14,500.00	13,108.00	14,152.11	12,741.00	43.48	41.20	-51.394	-2,055.77	223.14	588.18	517.88	70.31	8.366	
14,600.00	13,108.00	14,252.11	12,741.00	43.97	41.63	-51.393	-2,155.76	224.12	588.16	516.15	72.01	8.168	
14,700.00	13,108.00	14,352.11	12,741.00	44.53	42.15	-51.391	-2,255.76	225.10	588.14	514.39	73.75	7.974	
14,800.00	13,108.00	14,452.11	12,741.00	45.16	42.76	-51.390	-2,355.75	226.08	588.12	512.59	75.54	7.786	
14,900.00	13,108.00	14,552.11	12,741.00	45.87	43.47	-51.388	-2,455.75	227.06	588.10	510.74	77.36	7.602	
15,000.00	13,108.00	14,652.11	12,741.00	46.64	44.28	-51.387	-2,555.75	228.04	588.08	508.87	79.21	7.424	
15,100.00	13,108.00	14,752.11	12,741.00	47.49	45.17	-51.385	-2,655.74	229.01	588.06	506.96	81.10	7.251	
15,200.00	13,108.00	14,852.11	12,741.00	48.39	46.15	-51.383	-2,755.74	229.99	588.04	505.03	83.01	7.084	
15,300.00	13,108.00	14,952.11	12,741.00	49.36	47.19	-51.382	-2,855.73	230.97	588.02	503.06	84.96	6.921	
15,400.00	13,108.00	15,052.11	12,741.00	50.38	48.29	-51.380	-2,955.73	231.95	588.00	501.08	86.93	6.764	
15,500.00	13,108.00	15,152.11	12,741.00	51.44	49.43	-51.379	-3,055.72	232.93	587.98	499.06	88.92	6.613	
15,600.00	13,108.00	15,252.11	12,741.00	52.54	50.61	-51.377	-3,155.72	233.91	587.96	497.03	90.93	6.466	
15,700.00	13,108.00	15,352.11	12,741.00	53.67	51.82	-51.376	-3,255.71	234.88	587.94	494.97	92.97	6.324	
15,800.00	13,108.00	15,452.11	12,741.00	54.84	53.06	-51.374	-3,355.71	235.86	587.92	492.89	95.03	6.187	
15,900.00	13,108.00	15,552.11	12,741.00	56.02	54.31	-51.372	-3,455.70	236.84	587.90	490.80	97.10	6.055	
16,000.00	13,108.00	15,652.11	12,741.00	57.24	55.59	-51.371	-3,555.70	237.82	587.88	488.69	99.19	5.927	
16,100.00	13,108.00	15,752.11	12,741.00	58.47	56.88	-51.369	-3,655.69	238.80	587.86	486.56	101.30	5.803	
16,200.00	13,108.00	15,852.11	12,741.00	59.71	58.18	-51.368	-3,755.69	239.78	587.84	484.42	103.42	5.684	
16,300.00	13,108.00	15,952.11	12,741.00	60.97	59.49	-51.366	-3,855.68	240.75	587.82	482.26	105.56	5.569	
16,400.00	13,108.00	16,052.11	12,741.00	62.25	60.82	-51.365	-3,955.68	241.73	587.80	480.09	107.71	5.457	
16,500.00	13,108.00	16,152.11	12,741.00	63.53	62.15	-51.363	-4,055.67	242.71	587.78	477.91	109.87	5.350	
16,600.00	13,108.00	16,252.11	12,741.00	64.83	63.48	-51.361	-4,155.67	243.69	587.76	475.71	112.05	5.246	
16,700.00	13,108.00	16,352.11	12,741.00	66.13	64.83	-51.360	-4,255.66	244.67	587.74	473.51	114.23	5.145	
16,800.00	13,108.00	16,452.11	12,741.00	67.45	66.18	-51.358	-4,355.66	245.65	587.72	471.29	116.43	5.048	
16,900.00	13,108.00	16,552.11	12,741.00	68.77	67.53	-51.357	-4,455.65	246.63	587.70	469.06	118.63	4.954	
17,000.00	13,108.00	16,652.11	12,741.00	70.10	68.89	-51.355	-4,555.65	247.60	587.68	466.83	120.85	4.863	
17,100.00	13,108.00	16,752.11	12,741.00	71.43	70.26	-51.353	-4,655.64	248.58	587.66	464.58	123.07	4.775	
17,200.00	13,108.00	16,852.11	12,741.00	72.77	71.63	-51.352	-4,755.64	249.56	587.64	462.33	125.31	4.690	
17,300.00	13,108.00	16,952.11	12,741.00	74.11	73.00	-51.350	-4,855.63	250.54	587.62	460.07	127.55	4.607	
17,400.00	13,108.00	17,052.11	12,741.00	75.46	74.37	-51.349	-4,955.63	251.52	587.60	457.80	129.80	4.527	
17,500.00	13,108.00	17,152.11	12,741.00	76.81	75.75	-51.347	-5,055.63	252.50	587.58	455.53	132.05	4.450	
17,600.00	13,108.00	17,252.11	12,741.00	78.17	77.13	-51.346	-5,155.62	253.47	587.56	453.24	134.31	4.375	
17,700.00	13,108.00	17,352.11	12,741.00	79.53	78.51	-51.344	-5,255.62	254.45	587.54	450.95	136.58	4.302	
17,800.00	13,108.00	17,452.11	12,741.00	80.89	79.90	-51.342	-5,355.61	255.43	587.52	448.66	138.86	4.231	
17,900.00	13,108.00	17,552.11	12,741.00	82.26	81.29	-51.341	-5,455.61	256.41	587.49	446.36	141.14	4.163	
18,000.00	13,108.00	17,652.11	12,741.00	83.63	82.68	-51.339	-5,555.60	257.39	587.47	444.05	143.42	4.096	
18,100.00	13,108.00	17,752.11	12,741.00	85.00	84.07	-51.338	-5,655.60	258.37	587.45	441.74	145.71	4.032	
18,200.00	13,108.00	17,852.11	12,741.00	86.38	85.46	-51.336	-5,755.59	259.34	587.43	439.43	148.01	3.969	
18,300.00	13,108.00	17,952.11	12,741.00	87.76	86.86	-51.335	-5,855.59	260.32	587.41	437.11	150.31	3.908	
18,400.00	13,108.00	18,052.11	12,741.00	89.14	88.25	-51.333	-5,955.58	261.30	587.39	434.78	152.61	3.849	
18,500.00	13,108.00	18,152.11	12,741.00	90.52	89.65	-51.331	-6,055.58	262.28	587.37	432.45	154.92	3.791	
18,600.00	13,108.00	18,252.11	12,741.00	91.90	91.05	-51.330	-6,155.57	263.26	587.35	430.12	157.24	3.735	
18,700.00	13,108.00	18,352.11	12,741.00	93.29	92.45	-51.328	-6,255.57	264.24	587.33	427.78	159.55	3.681	
18,800.00	13,108.00	18,452.11	12,741.00	94.68	93.85	-51.327	-6,355.56	265.21	587.31	425.44	161.88	3.628	
18,900.00	13,108.00	18,552.11	12,741.00	96.06	95.25	-51.325	-6,455.56	266.19	587.29	423.09	164.20	3.577	
19,000.00	13,108.00	18,652.11	12,741.00	97.46	96.66	-51.323	-6,555.55	267.17	587.27	420.74	166.53	3.527	
19,100.00	13,108.00	18,752.11	12,741.00	98.85	98.06	-51.322	-6,655.55	268.15	587.25	418.39	168.86	3.478	
19,200.00	13,108.00	18,852.11	12,741.00	100.24	99.47	-51.320	-6,755.54	269.13	587.23	416.04	171.20	3.430	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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	
19,300.00	13,108.00	18,952.11	12,741.00	101.64	100.88	-51.319	-6,855.54	270.11	587.21	413.68	173.53	3.384	
19,400.00	13,108.00	19,052.11	12,741.00	103.03	102.28	-51.317	-6,955.53	271.08	587.19	411.32	175.88	3.339	
19,500.00	13,108.00	19,152.11	12,741.00	104.43	103.69	-51.316	-7,055.53	272.06	587.17	408.95	178.22	3.295	
19,600.00	13,108.00	19,252.11	12,741.00	105.83	105.10	-51.314	-7,155.52	273.04	587.15	406.59	180.57	3.252	
19,700.00	13,108.00	19,352.11	12,741.00	107.23	106.51	-51.312	-7,255.52	274.02	587.13	404.22	182.91	3.210	
19,800.00	13,108.00	19,452.11	12,741.00	108.63	107.92	-51.311	-7,355.52	275.00	587.11	401.84	185.27	3.169	
19,900.00	13,108.00	19,552.11	12,741.00	110.03	109.33	-51.309	-7,455.51	275.98	587.09	399.47	187.62	3.129	
20,000.00	13,108.00	19,652.11	12,741.00	111.43	110.75	-51.308	-7,555.51	276.95	587.07	397.09	189.98	3.090	
20,100.00	13,108.00	19,752.11	12,741.00	112.84	112.16	-51.306	-7,655.50	277.93	587.05	394.72	192.33	3.052	
20,200.00	13,108.00	19,852.11	12,741.00	114.24	113.57	-51.304	-7,755.50	278.91	587.03	392.34	194.69	3.015	
20,300.00	13,108.00	19,952.11	12,741.00	115.65	114.99	-51.303	-7,855.49	279.89	587.01	389.95	197.06	2.979	
20,400.00	13,108.00	20,052.11	12,741.00	117.05	116.40	-51.301	-7,955.49	280.87	586.99	387.57	199.42	2.943	
20,500.00	13,108.00	20,152.11	12,741.00	118.46	117.82	-51.300	-8,055.48	281.85	586.97	385.18	201.79	2.909	
20,600.00	13,108.00	20,252.11	12,741.00	119.87	119.23	-51.298	-8,155.48	282.82	586.95	382.79	204.16	2.875	
20,700.00	13,108.00	20,352.11	12,741.00	121.28	120.65	-51.297	-8,255.47	283.80	586.93	380.40	206.53	2.842	
20,800.00	13,108.00	20,452.11	12,741.00	122.68	122.07	-51.295	-8,355.47	284.78	586.91	378.01	208.90	2.810	
20,900.00	13,108.00	20,552.11	12,741.00	124.09	123.49	-51.293	-8,455.46	285.76	586.89	375.62	211.27	2.778	
21,000.00	13,108.00	20,652.11	12,741.00	125.51	124.90	-51.292	-8,555.46	286.74	586.87	373.22	213.64	2.747	
21,100.00	13,108.00	20,752.11	12,741.00	126.92	126.32	-51.290	-8,655.45	287.72	586.85	370.83	216.02	2.717	
21,200.00	13,108.00	20,852.11	12,741.00	128.33	127.74	-51.289	-8,755.45	288.69	586.83	368.43	218.40	2.687	
21,300.00	13,108.00	20,952.11	12,741.00	129.74	129.16	-51.287	-8,855.44	289.67	586.81	366.03	220.78	2.658	
21,400.00	13,108.00	21,052.11	12,741.00	131.15	130.58	-51.285	-8,955.44	290.65	586.79	363.63	223.16	2.629	
21,500.00	13,108.00	21,152.11	12,741.00	132.57	132.00	-51.284	-9,055.43	291.63	586.77	361.23	225.54	2.602	
21,600.00	13,108.00	21,252.11	12,741.00	133.98	133.42	-51.282	-9,155.43	292.61	586.75	358.82	227.92	2.574	
21,700.00	13,108.00	21,352.11	12,741.00	135.39	134.84	-51.281	-9,255.42	293.59	586.73	356.42	230.31	2.548	
21,800.00	13,108.00	21,452.11	12,741.00	136.81	136.26	-51.279	-9,355.42	294.56	586.71	354.01	232.69	2.521	
21,900.00	13,108.00	21,552.11	12,741.00	138.22	137.68	-51.278	-9,455.41	295.54	586.69	351.61	235.08	2.496	
22,000.00	13,108.00	21,652.11	12,741.00	139.64	139.10	-51.276	-9,555.41	296.52	586.66	349.20	237.47	2.471	
22,100.00	13,108.00	21,752.11	12,741.00	141.06	140.52	-51.274	-9,655.41	297.50	586.64	346.79	239.86	2.446	
22,200.00	13,108.00	21,852.11	12,741.00	142.47	141.95	-51.273	-9,755.40	298.48	586.62	344.38	242.25	2.422	
22,300.00	13,108.00	21,952.11	12,741.00	143.89	143.37	-51.271	-9,855.40	299.46	586.60	341.97	244.64	2.398	
22,400.00	13,108.00	22,052.11	12,741.00	145.31	144.79	-51.270	-9,955.39	300.43	586.58	339.55	247.03	2.375	
22,500.00	13,108.00	22,152.11	12,741.00	146.72	146.22	-51.268	-10,055.39	301.41	586.56	337.14	249.42	2.352	
22,600.00	13,108.00	22,252.11	12,741.00	148.14	147.64	-51.266	-10,155.38	302.39	586.54	334.73	251.82	2.329	
22,700.00	13,108.00	22,352.11	12,741.00	149.56	149.06	-51.265	-10,255.38	303.37	586.52	332.31	254.21	2.307	
22,800.00	13,108.00	22,452.11	12,741.00	150.98	150.49	-51.263	-10,355.37	304.35	586.50	329.90	256.61	2.286	
22,900.00	13,108.00	22,552.11	12,741.00	152.40	151.91	-51.262	-10,455.37	305.33	586.48	327.48	259.00	2.264	
23,000.00	13,108.00	22,652.11	12,741.00	153.82	153.33	-51.260	-10,555.36	306.30	586.46	325.06	261.40	2.244	
23,100.00	13,108.00	22,752.11	12,741.00	155.24	154.76	-51.259	-10,655.36	307.28	586.44	322.64	263.80	2.223	
23,100.89	13,108.00	22,752.88	12,741.00	155.25	154.77	-51.259	-10,656.13	307.29	586.44	322.63	263.81	2.223 SF	
23,200.00	13,108.00	22,752.88	12,741.00	156.66	154.77	-51.259	-10,656.13	307.29	594.76	335.96	258.80	2.298	
23,247.14	13,108.00	22,752.88	12,741.00	157.33	154.77	-51.259	-10,656.13	307.29	604.40	350.06	254.34	2.376	

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



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 433H - OH - Plan 1 08-31-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	1.00	0.00	1.00	1.00	89.534	10.26	1,260.17	1,260.21				
100.00	100.00	101.00	100.00	1.08	1.09	89.534	10.26	1,260.17	1,260.21	1,258.04	2.17	580.336	
200.00	200.00	201.00	200.00	1.60	1.60	89.534	10.26	1,260.17	1,260.21	1,257.01	3.20	393.682	
300.00	300.00	301.00	300.00	2.01	2.01	89.534	10.26	1,260.17	1,260.21	1,256.19	4.02	313.287	
400.00	400.00	401.00	400.00	2.35	2.36	89.534	10.26	1,260.17	1,260.21	1,255.50	4.71	267.665	
500.00	500.00	501.00	500.00	2.65	2.66	89.534	10.26	1,260.17	1,260.21	1,254.90	5.31	237.287	
600.00	600.00	601.00	600.00	2.93	2.93	89.534	10.26	1,260.17	1,260.21	1,254.36	5.86	215.185	
700.00	700.00	701.00	700.00	3.18	3.18	89.534	10.26	1,260.17	1,260.21	1,253.85	6.36	198.163	
800.00	800.00	801.00	800.00	3.41	3.42	89.534	10.26	1,260.17	1,260.21	1,253.38	6.83	184.527	
900.00	900.00	901.00	900.00	3.64	3.64	89.534	10.26	1,260.17	1,260.21	1,252.94	7.27	173.279	
1,000.00	1,000.00	1,001.00	1,000.00	3.85	3.85	89.534	10.26	1,260.17	1,260.21	1,252.52	7.69	163.792	
1,100.00	1,100.00	1,101.00	1,100.00	4.05	4.05	89.534	10.26	1,260.17	1,260.21	1,252.12	8.10	155.647	
1,200.00	1,200.00	1,201.00	1,200.00	4.24	4.24	89.534	10.26	1,260.17	1,260.21	1,251.73	8.48	148.552	
1,300.00	1,300.00	1,301.00	1,300.00	4.43	4.43	89.534	10.26	1,260.17	1,260.21	1,251.36	8.86	142.298	
1,400.00	1,400.00	1,401.00	1,400.00	4.61	4.61	89.534	10.26	1,260.17	1,260.21	1,251.00	9.22	136.731	
1,416.33	1,416.33	1,417.33	1,416.33	4.64	4.64	89.534	10.26	1,260.17	1,260.21	1,250.94	9.27	135.889 CC	
1,500.00	1,500.00	1,500.00	1,499.00	4.78	4.78	89.534	10.26	1,260.17	1,260.21	1,250.65	9.56	131.754 ES	
1,600.00	1,599.98	1,586.62	1,585.61	4.99	4.95	-120.635	9.05	1,260.67	1,261.68	1,251.85	9.83	128.334	
1,638.42	1,638.36	1,619.55	1,618.51	5.04	5.09	-120.616	7.96	1,261.13	1,263.01	1,253.10	9.91	127.423	
1,700.00	1,699.87	1,672.30	1,671.19	5.10	5.42	-120.602	5.48	1,262.16	1,265.71	1,255.65	10.06	125.813	
1,800.00	1,799.76	1,767.54	1,766.22	5.26	5.81	-120.509	-0.53	1,264.66	1,270.74	1,260.39	10.35	122.776	
1,900.00	1,899.64	1,867.39	1,865.82	5.44	6.02	-120.406	-6.96	1,267.34	1,275.84	1,265.20	10.64	119.943	
2,000.00	1,999.52	1,967.23	1,965.42	5.64	6.20	-120.304	-13.38	1,270.02	1,280.94	1,270.02	10.92	117.280	
2,100.00	2,099.41	2,067.07	2,065.02	5.84	6.40	-120.202	-19.81	1,272.69	1,286.05	1,274.83	11.21	114.693	
2,200.00	2,199.29	2,166.92	2,164.62	6.07	6.61	-120.101	-26.24	1,275.37	1,291.15	1,279.64	11.51	112.185	
2,300.00	2,299.17	2,266.76	2,264.22	6.30	6.84	-120.002	-32.66	1,278.04	1,296.27	1,284.46	11.81	109.757	
2,400.00	2,399.06	2,366.61	2,363.82	6.54	7.07	-119.902	-39.09	1,280.72	1,301.38	1,289.27	12.12	107.410	
2,500.00	2,498.94	2,466.45	2,463.42	6.79	7.32	-119.804	-45.52	1,283.40	1,306.50	1,294.08	12.43	105.143	
2,600.00	2,598.82	2,566.29	2,563.02	7.04	7.58	-119.707	-51.94	1,286.07	1,311.63	1,298.89	12.74	102.954	
2,700.00	2,698.71	2,666.14	2,662.62	7.31	7.85	-119.610	-58.37	1,288.75	1,316.75	1,303.70	13.06	100.843	
2,800.00	2,798.59	2,765.98	2,762.22	7.58	8.12	-119.514	-64.80	1,291.42	1,321.89	1,308.51	13.38	98.807	
2,900.00	2,898.47	2,865.82	2,861.83	7.85	8.40	-119.419	-71.22	1,294.10	1,327.02	1,313.32	13.70	96.845	
3,000.00	2,998.36	2,965.67	2,961.43	8.13	8.69	-119.324	-77.65	1,296.78	1,332.16	1,318.13	14.03	94.953	
3,100.00	3,098.24	3,065.51	3,061.03	8.41	8.98	-119.230	-84.08	1,299.45	1,337.30	1,322.94	14.36	93.130	
3,200.00	3,198.12	3,165.36	3,160.63	8.70	9.28	-119.137	-90.50	1,302.13	1,342.45	1,327.76	14.69	91.373	
3,300.00	3,298.01	3,265.20	3,260.23	8.99	9.58	-119.045	-96.93	1,304.80	1,347.60	1,332.57	15.03	89.680	
3,400.00	3,397.89	3,365.04	3,359.83	9.28	9.89	-118.953	-103.36	1,307.48	1,352.75	1,337.39	15.36	88.048	
3,500.00	3,497.77	3,464.89	3,459.43	9.58	10.20	-118.862	-109.78	1,310.16	1,357.91	1,342.20	15.70	86.475	
3,600.00	3,597.66	3,564.73	3,559.03	9.88	10.52	-118.772	-116.21	1,312.83	1,363.07	1,347.02	16.04	84.958	
3,700.00	3,697.54	3,664.58	3,658.63	10.18	10.84	-118.682	-122.64	1,315.51	1,368.23	1,351.84	16.39	83.494	
3,800.00	3,797.42	3,764.42	3,758.23	10.49	11.16	-118.593	-129.06	1,318.18	1,373.39	1,356.66	16.73	82.083	
3,900.00	3,897.31	3,864.26	3,857.83	10.79	11.48	-118.505	-135.49	1,320.86	1,378.56	1,361.49	17.08	80.721	
4,000.00	3,997.19	3,964.11	3,957.43	11.10	11.81	-118.417	-141.92	1,323.54	1,383.74	1,366.31	17.43	79.406	
4,100.00	4,097.07	4,063.95	4,057.04	11.41	12.14	-118.330	-148.34	1,326.21	1,388.91	1,371.14	17.78	78.136	
4,200.00	4,196.96	4,163.79	4,156.64	11.72	12.47	-118.244	-154.77	1,328.89	1,394.09	1,375.97	18.13	76.909	
4,300.00	4,296.84	4,263.64	4,256.24	12.03	12.80	-118.158	-161.19	1,331.56	1,399.27	1,380.80	18.48	75.724	
4,400.00	4,396.72	4,363.48	4,355.84	12.35	13.14	-118.073	-167.62	1,334.24	1,404.46	1,385.63	18.83	74.579	
4,500.00	4,496.61	4,463.33	4,455.44	12.66	13.48	-117.989	-174.05	1,336.92	1,409.65	1,390.46	19.19	73.471	
4,600.00	4,596.49	4,563.17	4,555.04	12.98	13.82	-117.905	-180.47	1,339.59	1,414.84	1,395.30	19.54	72.399	
4,700.00	4,696.37	4,663.01	4,654.64	13.29	14.16	-117.822	-186.90	1,342.27	1,420.03	1,400.14	19.90	71.362	
4,800.00	4,796.26	4,762.86	4,754.24	13.61	14.50	-117.739	-193.33	1,344.94	1,425.23	1,404.98	20.26	70.359	
4,900.00	4,896.14	4,862.70	4,853.84	13.93	14.84	-117.657	-199.75	1,347.62	1,430.43	1,409.82	20.62	69.387	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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	
5,000.00	4,996.02	4,962.55	4,953.44	14.25	15.18	-117.576	-206.18	1,350.30	1,435.64	1,414.66	20.98	68.445	
5,100.00	5,095.91	5,062.39	5,053.04	14.57	15.53	-117.495	-212.61	1,352.97	1,440.84	1,419.51	21.34	67.533	
5,200.00	5,195.79	5,162.23	5,152.64	14.89	15.87	-117.415	-219.03	1,355.65	1,446.05	1,424.35	21.70	66.648	
5,300.00	5,295.67	5,262.08	5,252.25	15.21	16.22	-117.335	-225.46	1,358.32	1,451.26	1,429.20	22.06	65.790	
5,400.00	5,395.56	5,361.92	5,351.85	15.54	16.57	-117.256	-231.89	1,361.00	1,456.48	1,434.06	22.42	64.958	
5,500.00	5,495.44	5,461.76	5,451.45	15.86	16.92	-117.177	-238.31	1,363.68	1,461.70	1,438.91	22.79	64.150	
5,600.00	5,595.32	5,561.61	5,551.05	16.19	17.27	-117.099	-244.74	1,366.35	1,466.92	1,443.77	23.15	63.366	
5,700.00	5,695.21	5,661.45	5,650.65	16.51	17.62	-117.022	-251.17	1,369.03	1,472.14	1,448.62	23.51	62.605	
5,800.00	5,795.09	5,761.30	5,750.25	16.83	17.97	-116.945	-257.59	1,371.71	1,477.36	1,453.48	23.88	61.865	
5,900.00	5,894.97	5,861.14	5,849.85	17.16	18.32	-116.869	-264.02	1,374.38	1,482.59	1,458.35	24.25	61.146	
6,000.00	5,994.86	5,960.98	5,949.45	17.49	18.67	-116.793	-270.45	1,377.06	1,487.82	1,463.21	24.61	60.448	
6,100.00	6,094.74	6,060.83	6,049.05	17.81	19.02	-116.718	-276.87	1,379.73	1,493.06	1,468.07	24.98	59.768	
6,200.00	6,194.62	6,160.67	6,148.65	18.14	19.38	-116.643	-283.30	1,382.41	1,498.29	1,472.94	25.35	59.107	
6,300.00	6,294.51	6,260.51	6,248.25	18.47	19.73	-116.569	-289.73	1,385.09	1,503.53	1,477.81	25.72	58.464	
6,400.00	6,394.39	6,360.36	6,347.85	18.79	20.08	-116.495	-296.15	1,387.76	1,508.77	1,482.68	26.09	57.838	
6,500.00	6,494.27	6,460.20	6,447.46	19.12	20.44	-116.422	-302.58	1,390.44	1,514.01	1,487.56	26.46	57.228	
6,600.00	6,594.16	6,560.05	6,547.06	19.45	20.79	-116.349	-309.01	1,393.11	1,519.26	1,492.43	26.83	56.635	
6,700.00	6,694.04	6,659.89	6,646.66	19.78	21.15	-116.277	-315.43	1,395.79	1,524.51	1,497.31	27.20	56.057	
6,800.00	6,793.92	6,759.73	6,746.26	20.11	21.51	-116.205	-321.86	1,398.47	1,529.76	1,502.19	27.57	55.493	
6,900.00	6,893.81	6,859.58	6,845.86	20.44	21.86	-116.134	-328.29	1,401.14	1,535.01	1,507.07	27.94	54.944	
7,000.00	6,993.69	6,959.42	6,945.46	20.77	22.22	-116.063	-334.71	1,403.82	1,540.27	1,511.96	28.31	54.408	
7,100.00	7,093.57	7,059.27	7,045.06	21.10	22.58	-115.993	-341.14	1,406.49	1,545.52	1,516.84	28.68	53.886	
7,200.00	7,193.46	7,159.11	7,144.66	21.43	22.93	-115.924	-347.57	1,409.17	1,550.78	1,521.73	29.05	53.376	
7,300.00	7,293.34	7,258.95	7,244.26	21.76	23.29	-115.854	-353.99	1,411.85	1,556.05	1,526.62	29.43	52.879	
7,400.00	7,393.22	7,358.80	7,343.86	22.09	23.65	-115.785	-360.42	1,414.52	1,561.31	1,531.51	29.80	52.393	
7,500.00	7,493.11	7,458.64	7,443.46	22.42	24.01	-115.717	-366.85	1,417.20	1,566.58	1,536.40	30.17	51.919	
7,600.00	7,592.99	7,558.48	7,543.06	22.75	24.37	-115.649	-373.27	1,419.87	1,571.85	1,541.30	30.55	51.457	
7,700.00	7,692.87	7,658.33	7,642.67	23.08	24.73	-115.582	-379.70	1,422.55	1,577.12	1,546.20	30.92	51.004	
7,800.00	7,792.76	7,758.17	7,742.27	23.41	25.09	-115.515	-386.13	1,425.23	1,582.39	1,551.10	31.30	50.563	
7,900.00	7,892.64	7,858.02	7,841.87	23.74	25.44	-115.448	-392.55	1,427.90	1,587.67	1,556.00	31.67	50.131	
8,000.00	7,992.52	7,957.86	7,941.47	24.07	25.80	-115.382	-398.98	1,430.58	1,592.94	1,560.90	32.05	49.709	
8,100.00	8,092.41	8,057.70	8,041.07	24.40	26.16	-115.316	-405.41	1,433.25	1,598.22	1,565.80	32.42	49.296	
8,200.00	8,192.29	8,157.55	8,140.67	24.74	26.52	-115.251	-411.83	1,435.93	1,603.51	1,570.71	32.80	48.893	
8,300.00	8,292.17	8,257.39	8,240.27	25.07	26.88	-115.186	-418.26	1,438.61	1,608.79	1,575.62	33.17	48.498	
8,400.00	8,392.06	8,357.24	8,339.87	25.40	27.25	-115.122	-424.69	1,441.28	1,614.08	1,580.53	33.55	48.112	
8,500.00	8,491.94	8,457.08	8,439.47	25.73	27.61	-115.058	-431.11	1,443.96	1,619.36	1,585.44	33.92	47.734	
8,600.00	8,591.82	8,556.92	8,539.07	26.07	27.97	-114.995	-437.54	1,446.63	1,624.65	1,590.35	34.30	47.364	
8,700.00	8,691.71	8,656.77	8,638.67	26.40	28.33	-114.931	-443.97	1,449.31	1,629.94	1,595.27	34.68	47.002	
8,800.00	8,791.59	8,756.61	8,738.27	26.73	28.69	-114.869	-450.39	1,451.99	1,635.24	1,600.18	35.06	46.647	
8,900.00	8,891.47	8,856.45	8,837.88	27.06	29.05	-114.806	-456.82	1,454.66	1,640.53	1,605.10	35.43	46.300	
9,000.00	8,991.36	8,956.30	8,937.48	27.40	29.41	-114.744	-463.25	1,457.34	1,645.83	1,610.02	35.81	45.959	
9,100.00	9,091.24	9,056.14	9,037.08	27.73	29.77	-114.683	-469.67	1,460.01	1,651.13	1,614.94	36.19	45.626	
9,200.00	9,191.12	9,155.99	9,136.68	28.06	30.14	-114.622	-476.10	1,462.69	1,656.43	1,619.87	36.57	45.299	
9,300.00	9,291.01	9,255.83	9,236.28	28.40	30.50	-114.561	-482.53	1,465.37	1,661.74	1,624.79	36.94	44.979	
9,400.00	9,390.89	9,355.67	9,335.88	28.73	30.86	-114.501	-488.95	1,468.04	1,667.04	1,629.72	37.32	44.665	
9,500.00	9,490.77	9,455.52	9,435.48	29.06	31.22	-114.441	-495.38	1,470.72	1,672.35	1,634.65	37.70	44.357	
9,600.00	9,590.66	9,555.36	9,535.08	29.40	31.59	-114.381	-501.80	1,473.40	1,677.66	1,639.58	38.08	44.055	
9,700.00	9,690.54	9,655.21	9,634.68	29.73	31.95	-114.322	-508.23	1,476.07	1,682.97	1,644.51	38.46	43.759	
9,800.00	9,790.42	9,755.05	9,734.28	30.06	32.31	-114.263	-514.66	1,478.75	1,688.28	1,649.44	38.84	43.468	
9,900.00	9,890.31	9,854.89	9,833.88	30.40	32.67	-114.205	-521.08	1,481.42	1,693.59	1,654.38	39.22	43.183	
10,000.00	9,990.19	9,954.74	9,933.48	30.73	33.04	-114.147	-527.51	1,484.10	1,698.91	1,659.31	39.60	42.904	
10,100.00	10,090.07	10,054.58	10,033.09	31.07	33.40	-114.089	-533.94	1,486.78	1,704.23	1,664.25	39.98	42.629	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 433H - OH - Plan 1 08-31-22												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,200.00	10,189.96	10,154.42	10,132.69	31.40	33.76	-114.031	-540.36	1,489.45	1,709.55	1,669.19	40.36	42.359	
10,300.00	10,289.84	10,254.27	10,232.29	31.74	34.13	-113.974	-546.79	1,492.13	1,714.87	1,674.13	40.74	42.095	
10,400.00	10,389.72	10,354.11	10,331.89	32.07	34.49	-113.918	-553.22	1,494.80	1,720.19	1,679.07	41.12	41.835	
10,500.00	10,489.60	10,453.96	10,431.49	32.40	34.85	-113.861	-559.64	1,497.48	1,725.52	1,684.02	41.50	41.580	
10,600.00	10,589.49	10,553.80	10,531.09	32.74	35.22	-113.805	-566.07	1,500.16	1,730.84	1,688.96	41.88	41.329	
10,700.00	10,689.37	10,653.64	10,630.69	33.07	35.58	-113.750	-572.50	1,502.83	1,736.17	1,693.91	42.26	41.082	
10,800.00	10,789.25	10,753.49	10,730.29	33.41	35.95	-113.694	-578.92	1,505.51	1,741.50	1,698.86	42.64	40.840	
10,900.00	10,889.14	10,853.33	10,829.89	33.74	36.31	-113.640	-585.35	1,508.18	1,746.83	1,703.81	43.02	40.602	
11,000.00	10,989.02	10,953.17	10,929.49	34.08	36.67	-113.585	-591.78	1,510.86	1,752.16	1,708.76	43.40	40.369	
11,100.00	11,088.90	11,053.02	11,029.09	34.41	37.04	-113.531	-598.20	1,513.54	1,757.50	1,713.71	43.79	40.139	
11,200.00	11,188.79	11,152.86	11,128.69	34.75	37.40	-113.477	-604.63	1,516.21	1,762.83	1,718.66	44.17	39.913	
11,300.00	11,288.67	11,252.71	11,228.30	35.08	37.77	-113.423	-611.06	1,518.89	1,768.17	1,723.62	44.55	39.691	
11,400.00	11,388.55	11,352.55	11,327.90	35.42	38.13	-113.370	-617.48	1,521.56	1,773.51	1,728.58	44.93	39.472	
11,500.00	11,488.44	11,452.39	11,427.50	35.75	38.50	-113.317	-623.91	1,524.24	1,778.85	1,733.53	45.31	39.257	
11,600.00	11,588.32	11,570.75	11,545.60	36.09	38.92	-113.272	-630.94	1,527.17	1,783.97	1,738.26	45.71	39.026	
11,700.00	11,688.20	11,713.40	11,688.20	36.42	39.34	-113.380	-634.08	1,528.47	1,787.04	1,740.95	46.09	38.773	
11,800.00	11,788.09	11,813.29	11,788.09	36.76	39.34	-113.522	-634.08	1,528.47	1,788.97	1,742.72	46.25	38.680	
11,900.00	11,887.97	11,913.17	11,887.97	37.09	39.35	-113.664	-634.08	1,528.47	1,790.90	1,744.48	46.42	38.579	
11,908.72	11,896.68	11,921.88	11,896.68	37.12	39.35	-113.676	-634.08	1,528.47	1,791.07	1,744.64	46.44	38.570	
12,000.00	11,987.91	12,013.11	11,987.91	37.41	39.35	-113.784	-634.08	1,528.47	1,792.26	1,745.68	46.58	38.477	
12,047.14	12,035.04	12,060.24	12,035.04	37.47	39.35	96.392	-634.08	1,528.47	1,792.42	1,745.81	46.61	38.458	
12,100.00	12,087.91	12,113.11	12,087.91	37.47	39.36	96.392	-634.08	1,528.47	1,792.42	1,745.81	46.61	38.459	
12,115.68	12,103.59	12,128.79	12,103.59	37.47	39.36	96.392	-634.08	1,528.47	1,792.42	1,745.81	46.61	38.458	
12,200.00	12,187.91	12,210.24	12,185.04	37.48	39.36	96.392	-634.08	1,528.47	1,792.42	1,745.81	46.62	38.451	
12,300.00	12,287.91	12,284.46	12,259.05	37.48	39.61	96.544	-638.88	1,528.52	1,793.24	1,746.54	46.70	38.397	
12,400.00	12,387.91	12,350.00	12,323.42	37.49	39.98	96.930	-651.04	1,528.64	1,795.71	1,748.85	46.86	38.321	
12,500.00	12,487.91	12,420.08	12,390.22	37.50	40.42	97.595	-672.07	1,528.84	1,800.06	1,752.96	47.11	38.213	
12,547.14	12,535.04	12,450.00	12,417.86	37.49	40.60	97.955	-683.51	1,528.95	1,802.88	1,755.65	47.23	38.174	
12,550.00	12,537.91	12,450.00	12,417.86	37.50	40.60	-81.451	-683.51	1,528.95	1,803.06	1,755.83	47.23	38.175	
12,600.00	12,587.83	12,481.22	12,446.03	37.64	40.80	-80.750	-696.97	1,529.08	1,806.30	1,758.90	47.40	38.105	
12,650.00	12,637.36	12,511.19	12,472.34	37.90	40.98	-80.105	-711.31	1,529.22	1,809.45	1,761.85	47.59	38.018	
12,700.00	12,686.10	12,550.00	12,505.24	38.17	41.22	-79.423	-731.89	1,529.41	1,812.48	1,764.63	47.85	37.882	
12,750.00	12,733.70	12,570.62	12,522.13	38.46	41.33	-78.970	-743.72	1,529.53	1,815.24	1,767.18	48.05	37.775	
12,800.00	12,779.78	12,600.00	12,545.43	38.75	41.50	-78.487	-761.60	1,529.70	1,817.79	1,769.47	48.32	37.622	
12,850.00	12,824.00	12,629.52	12,567.89	39.03	41.67	-78.065	-780.75	1,529.89	1,820.06	1,771.45	48.61	37.442	
12,900.00	12,866.02	12,650.00	12,582.88	39.31	41.78	-77.751	-794.71	1,530.02	1,822.04	1,773.17	48.87	37.281	
12,950.00	12,905.52	12,688.04	12,609.36	39.57	41.97	-77.419	-822.01	1,530.28	1,823.61	1,774.35	49.26	37.020	
13,000.00	12,942.21	12,717.21	12,628.40	39.82	42.11	-77.198	-844.10	1,530.49	1,824.83	1,775.21	49.62	36.776	
13,050.00	12,975.79	12,750.00	12,648.43	40.06	42.27	-77.042	-870.05	1,530.74	1,825.67	1,775.65	50.03	36.494	
13,100.00	13,006.02	12,775.45	12,662.94	40.27	42.37	-76.972	-890.96	1,530.95	1,826.10	1,775.69	50.41	36.223	
13,150.00	13,032.66	12,800.00	12,676.04	40.46	42.47	-76.964	-911.72	1,531.15	1,826.13	1,775.32	50.81	35.942	
13,200.00	13,055.52	12,833.65	12,692.52	40.63	42.60	-77.034	-941.04	1,531.43	1,825.73	1,774.43	51.30	35.591	
13,250.00	13,074.42	12,862.77	12,705.38	40.77	42.70	-77.174	-967.17	1,531.68	1,824.93	1,773.16	51.77	35.247	
13,300.00	13,089.21	12,900.00	12,719.86	40.89	42.81	-77.414	-1,001.46	1,532.01	1,823.77	1,771.43	52.34	34.842	
13,350.00	13,099.79	12,921.15	12,727.08	40.99	42.87	-77.665	-1,021.34	1,532.20	1,822.17	1,769.37	52.80	34.511	
13,400.00	13,106.06	12,950.00	12,735.74	41.06	42.94	-78.010	-1,048.85	1,532.47	1,820.25	1,766.92	53.34	34.127	
13,447.14	13,108.00	12,978.12	12,742.83	41.11	43.00	-78.400	-1,076.06	1,532.73	1,818.15	1,764.27	53.87	33.748	
13,500.00	13,108.00	13,000.00	12,747.43	41.15	43.04	-78.542	-1,097.45	1,532.93	1,816.00	1,761.60	54.40	33.383	
13,600.00	13,108.00	13,070.69	12,756.64	41.25	43.13	-78.827	-1,167.48	1,533.61	1,813.50	1,757.75	55.75	32.527	
13,700.00	13,108.00	13,146.42	12,758.00	41.37	43.18	-78.869	-1,243.19	1,534.34	1,813.03	1,755.79	57.24	31.671	
13,800.00	13,108.00	13,246.42	12,758.00	41.51	43.24	-78.869	-1,343.18	1,535.30	1,812.99	1,753.93	59.06	30.697	
13,900.00	13,108.00	13,346.42	12,758.00	41.67	43.31	-78.869	-1,443.18	1,536.26	1,812.95	1,751.99	60.96	29.742	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 433H - OH - Plan 1 08-31-22												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	13,108.00	13,446.42	12,758.00	41.87	43.40	-78.869	-1,543.17	1,537.22	1,812.91	1,749.99	62.92	28.812	
14,100.00	13,108.00	13,546.42	12,758.00	42.10	43.50	-78.868	-1,643.17	1,538.19	1,812.87	1,747.92	64.95	27.911	
14,200.00	13,108.00	13,646.42	12,758.00	42.37	43.62	-78.868	-1,743.16	1,539.15	1,812.83	1,745.79	67.04	27.041	
14,300.00	13,108.00	13,746.42	12,758.00	42.69	43.77	-78.868	-1,843.16	1,540.11	1,812.79	1,743.60	69.18	26.204	
14,400.00	13,108.00	13,846.42	12,758.00	43.06	43.94	-78.868	-1,943.15	1,541.07	1,812.74	1,741.37	71.37	25.399	
14,500.00	13,108.00	13,946.42	12,758.00	43.48	44.15	-78.867	-2,043.15	1,542.04	1,812.70	1,739.10	73.60	24.628	
14,600.00	13,108.00	14,046.42	12,758.00	43.97	44.41	-78.867	-2,143.14	1,543.00	1,812.66	1,736.79	75.88	23.890	
14,700.00	13,108.00	14,146.42	12,758.00	44.53	44.72	-78.867	-2,243.14	1,543.96	1,812.62	1,734.44	78.19	23.184	
14,800.00	13,108.00	14,246.42	12,758.00	45.16	45.09	-78.867	-2,343.13	1,544.92	1,812.58	1,732.05	80.53	22.509	
14,900.00	13,108.00	14,346.42	12,758.00	45.87	45.54	-78.866	-2,443.13	1,545.88	1,812.54	1,729.64	82.90	21.864	
15,000.00	13,108.00	14,446.42	12,758.00	46.64	46.08	-78.866	-2,543.13	1,546.85	1,812.50	1,727.19	85.30	21.248	
15,100.00	13,108.00	14,546.42	12,758.00	47.49	46.71	-78.866	-2,643.12	1,547.81	1,812.46	1,724.73	87.73	20.659	
15,200.00	13,108.00	14,646.42	12,758.00	48.39	47.45	-78.866	-2,743.12	1,548.77	1,812.42	1,722.23	90.18	20.097	
15,300.00	13,108.00	14,746.42	12,758.00	49.36	48.28	-78.865	-2,843.11	1,549.73	1,812.37	1,719.72	92.66	19.560	
15,400.00	13,108.00	14,846.42	12,758.00	50.38	49.19	-78.865	-2,943.11	1,550.70	1,812.33	1,717.18	95.15	19.047	
15,500.00	13,108.00	14,946.42	12,758.00	51.44	50.19	-78.865	-3,043.10	1,551.66	1,812.29	1,714.63	97.66	18.557	
15,600.00	13,108.00	15,046.42	12,758.00	52.54	51.25	-78.864	-3,143.10	1,552.62	1,812.25	1,712.06	100.19	18.088	
15,700.00	13,108.00	15,146.42	12,758.00	53.67	52.36	-78.864	-3,243.09	1,553.58	1,812.21	1,709.47	102.74	17.640	
15,800.00	13,108.00	15,246.42	12,758.00	54.84	53.52	-78.864	-3,343.09	1,554.55	1,812.17	1,706.87	105.30	17.210	
15,900.00	13,108.00	15,346.42	12,758.00	56.02	54.71	-78.864	-3,443.08	1,555.51	1,812.13	1,704.26	107.87	16.799	
16,000.00	13,108.00	15,446.42	12,758.00	57.24	55.93	-78.863	-3,543.08	1,556.47	1,812.09	1,701.63	110.46	16.406	
16,100.00	13,108.00	15,546.42	12,758.00	58.47	57.18	-78.863	-3,643.07	1,557.43	1,812.05	1,698.99	113.05	16.028	
16,200.00	13,108.00	15,646.42	12,758.00	59.71	58.44	-78.863	-3,743.07	1,558.40	1,812.01	1,696.34	115.66	15.666	
16,300.00	13,108.00	15,746.42	12,758.00	60.97	59.73	-78.863	-3,843.06	1,559.36	1,811.96	1,693.68	118.28	15.319	
16,400.00	13,108.00	15,846.42	12,758.00	62.25	61.02	-78.862	-3,943.06	1,560.32	1,811.92	1,691.01	120.91	14.985	
16,500.00	13,108.00	15,946.42	12,758.00	63.53	62.33	-78.862	-4,043.06	1,561.28	1,811.88	1,688.33	123.55	14.665	
16,600.00	13,108.00	16,046.42	12,758.00	64.83	63.65	-78.862	-4,143.05	1,562.25	1,811.84	1,685.64	126.20	14.357	
16,700.00	13,108.00	16,146.42	12,758.00	66.13	64.98	-78.862	-4,243.05	1,563.21	1,811.80	1,682.95	128.85	14.061	
16,800.00	13,108.00	16,246.42	12,758.00	67.45	66.31	-78.861	-4,343.04	1,564.17	1,811.76	1,680.24	131.52	13.776	
16,900.00	13,108.00	16,346.42	12,758.00	68.77	67.65	-78.861	-4,443.04	1,565.13	1,811.72	1,677.53	134.19	13.501	
17,000.00	13,108.00	16,446.42	12,758.00	70.10	69.00	-78.861	-4,543.03	1,566.10	1,811.68	1,674.81	136.86	13.237	
17,100.00	13,108.00	16,546.42	12,758.00	71.43	70.35	-78.861	-4,643.03	1,567.06	1,811.64	1,672.09	139.55	12.982	
17,200.00	13,108.00	16,646.42	12,758.00	72.77	71.71	-78.860	-4,743.02	1,568.02	1,811.59	1,669.36	142.23	12.737	
17,300.00	13,108.00	16,746.42	12,758.00	74.11	73.08	-78.860	-4,843.02	1,568.98	1,811.55	1,666.62	144.93	12.500	
17,400.00	13,108.00	16,846.42	12,758.00	75.46	74.44	-78.860	-4,943.01	1,569.95	1,811.51	1,663.88	147.63	12.271	
17,500.00	13,108.00	16,946.42	12,758.00	76.81	75.81	-78.860	-5,043.01	1,570.91	1,811.47	1,661.14	150.33	12.050	
17,600.00	13,108.00	17,046.42	12,758.00	78.17	77.19	-78.859	-5,143.00	1,571.87	1,811.43	1,658.39	153.04	11.836	
17,700.00	13,108.00	17,146.42	12,758.00	79.53	78.56	-78.859	-5,243.00	1,572.83	1,811.39	1,655.63	155.76	11.630	
17,800.00	13,108.00	17,246.42	12,758.00	80.89	79.94	-78.859	-5,343.00	1,573.80	1,811.35	1,652.88	158.47	11.430	
17,900.00	13,108.00	17,346.42	12,758.00	82.26	81.32	-78.859	-5,442.99	1,574.76	1,811.31	1,650.11	161.19	11.237	
18,000.00	13,108.00	17,446.42	12,758.00	83.63	82.71	-78.858	-5,542.99	1,575.72	1,811.27	1,647.35	163.92	11.050	
18,100.00	13,108.00	17,546.42	12,758.00	85.00	84.10	-78.858	-5,642.98	1,576.68	1,811.22	1,644.58	166.65	10.868	
18,200.00	13,108.00	17,646.42	12,758.00	86.38	85.48	-78.858	-5,742.98	1,577.64	1,811.18	1,641.80	169.38	10.693	
18,300.00	13,108.00	17,746.42	12,758.00	87.76	86.87	-78.858	-5,842.97	1,578.61	1,811.14	1,639.02	172.12	10.523	
18,400.00	13,108.00	17,846.42	12,758.00	89.14	88.27	-78.857	-5,942.97	1,579.57	1,811.10	1,636.24	174.86	10.358	
18,500.00	13,108.00	17,946.42	12,758.00	90.52	89.66	-78.857	-6,042.96	1,580.53	1,811.06	1,633.46	177.60	10.197	
18,600.00	13,108.00	18,046.42	12,758.00	91.90	91.06	-78.857	-6,142.96	1,581.49	1,811.02	1,630.67	180.34	10.042	
18,700.00	13,108.00	18,146.42	12,758.00	93.29	92.45	-78.857	-6,242.95	1,582.46	1,810.98	1,627.89	183.09	9.891	
18,800.00	13,108.00	18,246.42	12,758.00	94.68	93.85	-78.856	-6,342.95	1,583.42	1,810.94	1,625.09	185.84	9.744	
18,900.00	13,108.00	18,346.42	12,758.00	96.06	95.25	-78.856	-6,442.94	1,584.38	1,810.90	1,622.30	188.60	9.602	
19,000.00	13,108.00	18,446.42	12,758.00	97.46	96.65	-78.856	-6,542.94	1,585.34	1,810.86	1,619.50	191.35	9.464	
19,100.00	13,108.00	18,546.42	12,758.00	98.85	98.05	-78.856	-6,642.93	1,586.31	1,810.81	1,616.71	194.11	9.329	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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 (usft)	Factor	
19,200.00	13,108.00	18,646.42	12,758.00	100.24	99.46	-78.855	-6,742.93	1,587.27	1,810.77	1,613.90	196.87	9.198	
19,300.00	13,108.00	18,746.42	12,758.00	101.64	100.86	-78.855	-6,842.93	1,588.23	1,810.73	1,611.10	199.63	9.070	
19,400.00	13,108.00	18,846.42	12,758.00	103.03	102.27	-78.855	-6,942.92	1,589.19	1,810.69	1,608.30	202.39	8.946	
19,500.00	13,108.00	18,946.42	12,758.00	104.43	103.67	-78.855	-7,042.92	1,590.16	1,810.65	1,605.49	205.16	8.826	
19,600.00	13,108.00	19,046.42	12,758.00	105.83	105.08	-78.854	-7,142.91	1,591.12	1,810.61	1,602.68	207.93	8.708	
19,700.00	13,108.00	19,146.42	12,758.00	107.23	106.49	-78.854	-7,242.91	1,592.08	1,810.57	1,599.87	210.70	8.593	
19,800.00	13,108.00	19,246.42	12,758.00	108.63	107.90	-78.854	-7,342.90	1,593.04	1,810.53	1,597.06	213.47	8.481	
19,900.00	13,108.00	19,346.42	12,758.00	110.03	109.31	-78.853	-7,442.90	1,594.01	1,810.49	1,594.24	216.24	8.373	
20,000.00	13,108.00	19,446.42	12,758.00	111.43	110.72	-78.853	-7,542.89	1,594.97	1,810.44	1,591.43	219.02	8.266	
20,100.00	13,108.00	19,546.42	12,758.00	112.84	112.13	-78.853	-7,642.89	1,595.93	1,810.40	1,588.61	221.79	8.163	
20,200.00	13,108.00	19,646.42	12,758.00	114.24	113.54	-78.853	-7,742.88	1,596.89	1,810.36	1,585.79	224.57	8.062	
20,300.00	13,108.00	19,746.42	12,758.00	115.65	114.95	-78.852	-7,842.88	1,597.86	1,810.32	1,582.97	227.35	7.963	
20,400.00	13,108.00	19,846.42	12,758.00	117.05	116.37	-78.852	-7,942.87	1,598.82	1,810.28	1,580.15	230.13	7.866	
20,500.00	13,108.00	19,946.42	12,758.00	118.46	117.78	-78.852	-8,042.87	1,599.78	1,810.24	1,577.33	232.91	7.772	
20,600.00	13,108.00	20,046.42	12,758.00	119.87	119.19	-78.852	-8,142.87	1,600.74	1,810.20	1,574.51	235.69	7.680	
20,700.00	13,108.00	20,146.42	12,758.00	121.28	120.61	-78.851	-8,242.86	1,601.71	1,810.16	1,571.68	238.48	7.591	
20,800.00	13,108.00	20,246.42	12,758.00	122.68	122.02	-78.851	-8,342.86	1,602.67	1,810.12	1,568.86	241.26	7.503	
20,900.00	13,108.00	20,346.42	12,758.00	124.09	123.44	-78.851	-8,442.85	1,603.63	1,810.08	1,566.03	244.05	7.417	
21,000.00	13,108.00	20,446.42	12,758.00	125.51	124.86	-78.851	-8,542.85	1,604.59	1,810.03	1,563.20	246.83	7.333	
21,100.00	13,108.00	20,546.42	12,758.00	126.92	126.27	-78.850	-8,642.84	1,605.56	1,809.99	1,560.37	249.62	7.251	
21,200.00	13,108.00	20,646.42	12,758.00	128.33	127.69	-78.850	-8,742.84	1,606.52	1,809.95	1,557.54	252.41	7.171	
21,300.00	13,108.00	20,746.42	12,758.00	129.74	129.11	-78.850	-8,842.83	1,607.48	1,809.91	1,554.71	255.20	7.092	
21,400.00	13,108.00	20,846.42	12,758.00	131.15	130.53	-78.850	-8,942.83	1,608.44	1,809.87	1,551.88	257.99	7.015	
21,500.00	13,108.00	20,946.42	12,758.00	132.57	131.94	-78.849	-9,042.82	1,609.40	1,809.83	1,549.04	260.79	6.940	
21,600.00	13,108.00	21,046.42	12,758.00	133.98	133.36	-78.849	-9,142.82	1,610.37	1,809.79	1,546.21	263.58	6.866	
21,700.00	13,108.00	21,146.42	12,758.00	135.39	134.78	-78.849	-9,242.81	1,611.33	1,809.75	1,543.37	266.37	6.794	
21,800.00	13,108.00	21,246.42	12,758.00	136.81	136.20	-78.849	-9,342.81	1,612.29	1,809.71	1,540.54	269.17	6.723	
21,900.00	13,108.00	21,346.42	12,758.00	138.22	137.62	-78.848	-9,442.81	1,613.25	1,809.66	1,537.70	271.96	6.654	
22,000.00	13,108.00	21,446.42	12,758.00	139.64	139.04	-78.848	-9,542.80	1,614.22	1,809.62	1,534.86	274.76	6.586	
22,100.00	13,108.00	21,546.42	12,758.00	141.06	140.46	-78.848	-9,642.80	1,615.18	1,809.58	1,532.02	277.56	6.520	
22,200.00	13,108.00	21,646.42	12,758.00	142.47	141.88	-78.848	-9,742.79	1,616.14	1,809.54	1,529.18	280.36	6.454	
22,300.00	13,108.00	21,746.42	12,758.00	143.89	143.30	-78.847	-9,842.79	1,617.10	1,809.50	1,526.34	283.16	6.390	
22,400.00	13,108.00	21,846.42	12,758.00	145.31	144.73	-78.847	-9,942.78	1,618.07	1,809.46	1,523.50	285.95	6.328	
22,500.00	13,108.00	21,946.42	12,758.00	146.72	146.15	-78.847	-10,042.78	1,619.03	1,809.42	1,520.66	288.76	6.266	
22,600.00	13,108.00	22,046.42	12,758.00	148.14	147.57	-78.847	-10,142.77	1,619.99	1,809.38	1,517.82	291.56	6.206	
22,679.57	13,108.00	22,125.24	12,758.00	149.27	148.69	-78.846	-10,221.59	1,620.75	1,809.34	1,515.57	293.77	6.159	
22,700.00	13,108.00	22,125.24	12,758.00	149.56	148.69	-78.846	-10,221.59	1,620.75	1,809.46	1,515.47	293.99	6.155 SF	
22,800.00	13,108.00	22,125.24	12,758.00	150.98	148.69	-78.846	-10,221.59	1,620.75	1,813.35	1,518.79	294.56	6.156	
22,900.00	13,108.00	22,125.24	12,758.00	152.40	148.69	-78.846	-10,221.59	1,620.75	1,822.72	1,528.40	294.32	6.193	
23,000.00	13,108.00	22,125.24	12,758.00	153.82	148.69	-78.846	-10,221.59	1,620.75	1,837.50	1,544.20	293.30	6.265	
23,100.00	13,108.00	22,125.24	12,758.00	155.24	148.69	-78.846	-10,221.59	1,620.75	1,857.55	1,566.00	291.55	6.371	
23,200.00	13,108.00	22,125.24	12,758.00	156.66	148.69	-78.846	-10,221.59	1,620.75	1,882.71	1,593.58	289.12	6.512	
23,247.14	13,108.00	22,125.24	12,758.00	157.33	148.69	-78.846	-10,221.59	1,620.75	1,896.28	1,608.51	287.77	6.590	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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	0.00	1.00	1.00	89.532	10.05	1,230.19	1,230.23				
100.00	100.00	100.00	100.00	1.08	1.08	89.532	10.05	1,230.19	1,230.23	1,228.06	2.17	567.372	
200.00	200.00	200.00	200.00	1.60	1.60	89.532	10.05	1,230.19	1,230.23	1,227.03	3.20	384.782	
300.00	300.00	300.00	300.00	2.01	2.01	89.532	10.05	1,230.19	1,230.23	1,226.21	4.02	306.089	
400.00	400.00	400.00	400.00	2.35	2.35	89.532	10.05	1,230.19	1,230.23	1,225.53	4.71	261.463	
500.00	500.00	500.00	500.00	2.65	2.65	89.532	10.05	1,230.19	1,230.23	1,224.92	5.31	231.761	
600.00	600.00	600.00	600.00	2.93	2.93	89.532	10.05	1,230.19	1,230.23	1,224.38	5.85	210.155	
700.00	700.00	700.00	700.00	3.18	3.18	89.532	10.05	1,230.19	1,230.23	1,223.87	6.36	193.520	
800.00	800.00	800.00	800.00	3.41	3.41	89.532	10.05	1,230.19	1,230.23	1,223.40	6.83	180.195	
900.00	900.00	900.00	900.00	3.64	3.64	89.532	10.05	1,230.19	1,230.23	1,222.96	7.27	169.206	
1,000.00	1,000.00	1,000.00	1,000.00	3.85	3.85	89.532	10.05	1,230.19	1,230.23	1,222.54	7.69	159.937	
1,100.00	1,100.00	1,100.00	1,100.00	4.05	4.05	89.532	10.05	1,230.19	1,230.23	1,222.14	8.09	151.980	
1,200.00	1,200.00	1,200.00	1,200.00	4.24	4.24	89.532	10.05	1,230.19	1,230.23	1,221.75	8.48	145.050	
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	89.532	10.05	1,230.19	1,230.23	1,221.38	8.85	138.941	
1,400.00	1,400.00	1,400.00	1,400.00	4.61	4.61	89.532	10.05	1,230.19	1,230.23	1,221.02	9.21	133.503	
1,500.00	1,500.00	1,500.00	1,500.00	4.78	4.78	89.532	10.05	1,230.19	1,230.23	1,220.67	9.56	128.620 CC, ES	
1,600.00	1,599.98	1,593.34	1,593.32	4.99	4.96	-120.634	8.55	1,230.45	1,231.39	1,221.57	9.82	125.338	
1,638.42	1,638.36	1,629.79	1,629.75	5.04	5.00	-120.612	7.17	1,230.70	1,232.45	1,222.59	9.86	124.940	
1,700.00	1,699.87	1,691.34	1,691.24	5.10	5.06	-120.612	4.62	1,231.15	1,234.40	1,224.44	9.95	124.005	
1,800.00	1,799.76	1,791.29	1,791.11	5.26	5.22	-120.612	0.47	1,231.88	1,237.56	1,227.36	10.20	121.316	
1,900.00	1,899.64	1,891.24	1,890.97	5.44	5.39	-120.613	-3.68	1,232.61	1,240.72	1,230.25	10.47	118.459	
2,000.00	1,999.52	1,991.19	1,990.83	5.64	5.58	-120.613	-7.82	1,233.35	1,243.88	1,233.13	10.75	115.710	
2,100.00	2,099.41	2,091.14	2,090.69	5.84	5.78	-120.613	-11.97	1,234.08	1,247.04	1,236.01	11.03	113.073	
2,200.00	2,199.29	2,191.09	2,190.55	6.07	6.00	-120.613	-16.11	1,234.81	1,250.20	1,238.89	11.31	110.543	
2,300.00	2,299.17	2,291.04	2,290.41	6.30	6.22	-120.613	-20.26	1,235.54	1,253.36	1,241.77	11.59	108.116	
2,400.00	2,399.06	2,390.92	2,390.27	6.54	6.45	-120.613	-24.40	1,236.27	1,256.52	1,244.65	11.88	105.786	
2,500.00	2,498.94	2,490.94	2,490.14	6.79	6.69	-120.613	-28.55	1,237.01	1,259.69	1,247.52	12.16	103.551	
2,600.00	2,498.82	2,490.89	2,490.00	7.04	6.94	-120.613	-32.70	1,237.74	1,262.85	1,250.39	12.45	101.404	
2,700.00	2,498.71	2,490.84	2,489.86	7.31	7.19	-120.614	-36.84	1,238.47	1,266.01	1,253.26	12.74	99.343	
2,800.00	2,498.59	2,490.79	2,489.72	7.58	7.45	-120.614	-40.99	1,239.20	1,269.17	1,256.13	13.04	97.363	
2,900.00	2,498.47	2,490.74	2,489.58	7.85	7.72	-120.614	-45.13	1,239.93	1,272.33	1,259.00	13.33	95.460	
3,000.00	2,498.36	2,490.69	2,489.44	8.13	7.99	-120.614	-49.28	1,240.67	1,275.49	1,261.87	13.62	93.630	
3,100.00	3,098.24	3,090.64	3,089.30	8.41	8.26	-120.614	-53.42	1,241.40	1,278.65	1,264.73	13.92	91.871	
3,200.00	3,198.12	3,190.59	3,189.16	8.70	8.54	-120.614	-57.57	1,242.13	1,281.81	1,267.60	14.21	90.178	
3,300.00	3,298.01	3,290.54	3,289.03	8.99	8.82	-120.614	-61.72	1,242.86	1,284.97	1,270.46	14.51	88.548	
3,400.00	3,397.89	3,390.49	3,388.89	9.28	9.10	-120.615	-65.86	1,243.59	1,288.13	1,273.32	14.81	86.978	
3,500.00	3,497.77	3,490.44	3,488.75	9.58	9.38	-120.615	-70.01	1,244.33	1,291.30	1,276.19	15.11	85.465	
3,600.00	3,597.66	3,590.39	3,588.61	9.88	9.67	-120.615	-74.15	1,245.06	1,294.46	1,279.05	15.41	84.007	
3,700.00	3,697.54	3,690.34	3,688.47	10.18	9.96	-120.615	-78.30	1,245.79	1,297.62	1,281.91	15.71	82.601	
3,800.00	3,797.42	3,790.29	3,788.33	10.49	10.26	-120.615	-82.45	1,246.52	1,300.78	1,284.77	16.01	81.244	
3,900.00	3,897.31	3,890.24	3,888.19	10.79	10.55	-120.615	-86.59	1,247.25	1,303.94	1,287.63	16.31	79.934	
4,000.00	3,997.19	3,990.19	3,988.06	11.10	10.85	-120.615	-90.74	1,247.99	1,307.10	1,290.49	16.62	78.668	
4,100.00	4,097.07	4,090.14	4,087.92	11.41	11.15	-120.615	-94.88	1,248.72	1,310.26	1,293.34	16.92	77.446	
4,200.00	4,196.96	4,190.09	4,187.78	11.72	11.45	-120.616	-99.03	1,249.45	1,313.42	1,296.20	17.22	76.264	
4,300.00	4,296.84	4,290.04	4,287.64	12.03	11.75	-120.616	-103.17	1,250.18	1,316.58	1,299.06	17.53	75.121	
4,400.00	4,396.72	4,389.99	4,387.50	12.35	12.05	-120.616	-107.32	1,250.91	1,319.74	1,301.91	17.83	74.015	
4,500.00	4,496.61	4,489.94	4,487.36	12.66	12.36	-120.616	-111.47	1,251.65	1,322.91	1,304.77	18.14	72.945	
4,600.00	4,596.49	4,589.89	4,587.22	12.98	12.66	-120.616	-115.61	1,252.38	1,326.07	1,307.63	18.44	71.908	
4,700.00	4,696.37	4,689.84	4,687.08	13.29	12.97	-120.616	-119.76	1,253.11	1,329.23	1,310.48	18.75	70.904	
4,800.00	4,796.26	4,789.79	4,786.95	13.61	13.28	-120.616	-123.90	1,253.84	1,332.39	1,313.34	19.05	69.931	
4,900.00	4,896.14	4,889.74	4,886.81	13.93	13.58	-120.616	-128.05	1,254.57	1,335.55	1,316.19	19.36	68.987	
5,000.00	4,996.02	4,989.69	4,986.67	14.25	13.89	-120.617	-132.19	1,255.31	1,338.71	1,319.04	19.67	68.071	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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
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	
5,100.00	5,095.91	5,089.64	5,086.53	14.57	14.20	-120.617	-136.34	1,256.04	1,341.87	1,321.90	19.97	67.183	
5,200.00	5,195.79	5,189.59	5,186.39	14.89	14.51	-120.617	-140.49	1,256.77	1,345.03	1,324.75	20.28	66.320	
5,300.00	5,295.67	5,289.54	5,286.25	15.21	14.82	-120.617	-144.63	1,257.50	1,348.19	1,327.61	20.59	65.483	
5,400.00	5,395.56	5,389.49	5,386.11	15.54	15.14	-120.617	-148.78	1,258.23	1,351.35	1,330.46	20.90	64.669	
5,500.00	5,495.44	5,489.44	5,485.97	15.86	15.45	-120.617	-152.92	1,258.97	1,354.52	1,333.31	21.20	63.878	
5,600.00	5,595.32	5,589.39	5,585.84	16.19	15.76	-120.617	-157.07	1,259.70	1,357.68	1,336.16	21.51	63.109	
5,700.00	5,695.21	5,689.34	5,685.70	16.51	16.07	-120.617	-161.21	1,260.43	1,360.84	1,339.02	21.82	62.362	
5,800.00	5,795.09	5,789.29	5,785.56	16.83	16.39	-120.617	-165.36	1,261.16	1,364.00	1,341.87	22.13	61.634	
5,900.00	5,894.97	5,889.24	5,885.42	17.16	16.70	-120.618	-169.51	1,261.89	1,367.16	1,344.72	22.44	60.926	
6,000.00	5,994.86	5,989.19	5,985.28	17.49	17.02	-120.618	-173.65	1,262.63	1,370.32	1,347.57	22.75	60.237	
6,100.00	6,094.74	6,089.14	6,085.14	17.81	17.33	-120.618	-177.80	1,263.36	1,373.48	1,350.42	23.06	59.566	
6,200.00	6,194.62	6,189.09	6,185.00	18.14	17.65	-120.618	-181.94	1,264.09	1,376.64	1,353.27	23.37	58.912	
6,300.00	6,294.51	6,289.04	6,284.87	18.47	17.97	-120.618	-186.09	1,264.82	1,379.80	1,356.13	23.68	58.275	
6,400.00	6,394.39	6,388.99	6,384.73	18.79	18.28	-120.618	-190.24	1,265.56	1,382.96	1,358.98	23.99	57.654	
6,500.00	6,494.27	6,488.94	6,484.59	19.12	18.60	-120.618	-194.38	1,266.29	1,386.13	1,361.83	24.30	57.048	
6,600.00	6,594.16	6,588.89	6,584.45	19.45	18.92	-120.618	-198.53	1,267.02	1,389.29	1,364.68	24.61	56.458	
6,700.00	6,694.04	6,688.84	6,684.31	19.78	19.23	-120.619	-202.67	1,267.75	1,392.45	1,367.53	24.92	55.881	
6,800.00	6,793.92	6,788.79	6,784.17	20.11	19.55	-120.619	-206.82	1,268.48	1,395.61	1,370.38	25.23	55.319	
6,900.00	6,893.81	6,888.74	6,884.03	20.44	19.87	-120.619	-210.96	1,269.22	1,398.77	1,373.23	25.54	54.770	
7,000.00	6,993.69	6,988.69	6,983.89	20.77	20.19	-120.619	-215.11	1,269.95	1,401.93	1,376.08	25.85	54.234	
7,100.00	7,093.57	7,088.64	7,083.76	21.10	20.51	-120.619	-219.26	1,270.68	1,405.09	1,378.93	26.16	53.710	
7,200.00	7,193.46	7,188.59	7,183.62	21.43	20.83	-120.619	-223.40	1,271.41	1,408.25	1,381.78	26.47	53.199	
7,300.00	7,293.34	7,288.54	7,283.48	21.76	21.15	-120.619	-227.55	1,272.14	1,411.41	1,384.63	26.78	52.699	
7,400.00	7,393.22	7,388.49	7,383.34	22.09	21.47	-120.619	-231.69	1,272.88	1,414.57	1,387.48	27.09	52.211	
7,500.00	7,493.11	7,488.44	7,483.20	22.42	21.79	-120.619	-235.84	1,273.61	1,417.74	1,390.33	27.40	51.733	
7,600.00	7,592.99	7,588.39	7,583.06	22.75	22.11	-120.619	-239.98	1,274.34	1,420.90	1,393.18	27.72	51.266	
7,700.00	7,692.87	7,688.34	7,682.92	23.08	22.43	-120.620	-244.13	1,275.07	1,424.06	1,396.03	28.03	50.809	
7,800.00	7,792.76	7,788.29	7,782.79	23.41	22.75	-120.620	-248.28	1,275.80	1,427.22	1,398.88	28.34	50.362	
7,900.00	7,892.64	7,888.24	7,882.65	23.74	23.07	-120.620	-252.42	1,276.54	1,430.38	1,401.73	28.65	49.925	
8,000.00	7,992.52	7,988.19	7,982.51	24.07	23.39	-120.620	-256.57	1,277.27	1,433.54	1,404.58	28.96	49.497	
8,100.00	8,092.41	8,088.14	8,082.37	24.40	23.71	-120.620	-260.71	1,278.00	1,436.70	1,407.43	29.27	49.078	
8,200.00	8,192.29	8,188.09	8,182.23	24.74	24.03	-120.620	-264.86	1,278.73	1,439.86	1,410.28	29.59	48.667	
8,300.00	8,292.17	8,288.04	8,282.09	25.07	24.35	-120.620	-269.00	1,279.46	1,443.02	1,413.13	29.90	48.265	
8,400.00	8,392.06	8,387.99	8,381.95	25.40	24.67	-120.620	-273.15	1,280.20	1,446.18	1,415.98	30.21	47.872	
8,500.00	8,491.94	8,487.94	8,481.81	25.73	24.99	-120.620	-277.30	1,280.93	1,449.35	1,418.82	30.52	47.486	
8,600.00	8,591.82	8,587.89	8,581.68	26.07	25.31	-120.621	-281.44	1,281.66	1,452.51	1,421.67	30.83	47.108	
8,700.00	8,691.71	8,687.84	8,681.54	26.40	25.64	-120.621	-285.59	1,282.39	1,455.67	1,424.52	31.15	46.737	
8,800.00	8,791.59	8,787.79	8,781.40	26.73	25.96	-120.621	-289.73	1,283.12	1,458.83	1,427.37	31.46	46.374	
8,900.00	8,891.47	8,887.75	8,881.26	27.06	26.28	-120.621	-293.88	1,283.86	1,461.99	1,430.22	31.77	46.017	
9,000.00	8,991.36	8,987.70	8,981.12	27.40	26.60	-120.621	-298.03	1,284.59	1,465.15	1,433.07	32.08	45.668	
9,100.00	9,091.24	9,087.65	9,080.98	27.73	26.92	-120.621	-302.17	1,285.32	1,468.31	1,435.92	32.40	45.325	
9,200.00	9,191.12	9,187.60	9,180.84	28.06	27.25	-120.621	-306.32	1,286.05	1,471.47	1,438.77	32.71	44.989	
9,300.00	9,291.01	9,287.55	9,280.71	28.40	27.57	-120.621	-310.46	1,286.78	1,474.63	1,441.61	33.02	44.659	
9,400.00	9,390.89	9,387.50	9,380.57	28.73	27.89	-120.621	-314.61	1,287.52	1,477.79	1,444.46	33.33	44.335	
9,500.00	9,490.77	9,487.45	9,480.43	29.06	28.21	-120.621	-318.75	1,288.25	1,480.96	1,447.31	33.65	44.017	
9,600.00	9,590.66	9,587.40	9,580.29	29.40	28.54	-120.622	-322.90	1,288.98	1,484.12	1,450.16	33.96	43.705	
9,700.00	9,690.54	9,687.35	9,680.15	29.73	28.86	-120.622	-327.05	1,289.71	1,487.28	1,453.01	34.27	43.398	
9,800.00	9,790.42	9,787.30	9,780.01	30.06	29.18	-120.622	-331.19	1,290.44	1,490.44	1,455.86	34.58	43.097	
9,900.00	9,890.31	9,887.25	9,879.87	30.40	29.50	-120.622	-335.34	1,291.18	1,493.60	1,458.70	34.90	42.802	
10,000.00	9,990.19	9,987.20	9,979.73	30.73	29.83	-120.622	-339.48	1,291.91	1,496.76	1,461.55	35.21	42.511	
10,100.00	10,090.07	10,087.15	10,079.60	31.07	30.15	-120.622	-343.63	1,292.64	1,499.92	1,464.40	35.52	42.226	
10,200.00	10,189.96	10,187.10	10,179.46	31.40	30.47	-120.622	-347.77	1,293.37	1,503.08	1,467.25	35.83	41.945	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,289.84	10,287.05	10,279.32	31.74	30.80	-120.622	-351.92	1,294.10	1,506.24	1,470.10	36.15	41.670	
10,400.00	10,389.72	10,387.00	10,379.18	32.07	31.12	-120.622	-356.07	1,294.84	1,509.40	1,472.94	36.46	41.399	
10,500.00	10,489.60	10,486.95	10,479.04	32.40	31.44	-120.622	-360.21	1,295.57	1,512.57	1,475.79	36.77	41.132	
10,600.00	10,589.49	10,586.90	10,578.90	32.74	31.77	-120.622	-364.36	1,296.30	1,515.73	1,478.64	37.09	40.870	
10,700.00	10,689.37	10,686.85	10,678.76	33.07	32.09	-120.623	-368.50	1,297.03	1,518.89	1,481.49	37.40	40.613	
10,800.00	10,789.25	10,786.80	10,778.63	33.41	32.42	-120.623	-372.65	1,297.76	1,522.05	1,484.34	37.71	40.360	
10,900.00	10,889.14	10,886.75	10,878.49	33.74	32.74	-120.623	-376.80	1,298.50	1,525.21	1,487.18	38.03	40.110	
11,000.00	10,989.02	10,986.70	10,978.35	34.08	33.06	-120.623	-380.94	1,299.23	1,528.37	1,490.03	38.34	39.865	
11,100.00	11,088.90	11,086.65	11,078.21	34.41	33.39	-120.623	-385.09	1,299.96	1,531.53	1,492.88	38.65	39.624	
11,200.00	11,188.79	11,186.60	11,178.07	34.75	33.71	-120.623	-389.23	1,300.69	1,534.69	1,495.73	38.96	39.387	
11,300.00	11,288.67	11,286.55	11,277.93	35.08	34.03	-120.623	-393.38	1,301.42	1,537.85	1,498.58	39.28	39.153	
11,400.00	11,388.55	11,386.50	11,377.79	35.42	34.36	-120.623	-397.52	1,302.16	1,541.01	1,501.42	39.59	38.923	
11,500.00	11,488.44	11,486.45	11,477.65	35.75	34.68	-120.623	-401.67	1,302.89	1,544.18	1,504.27	39.90	38.697	
11,600.00	11,588.32	11,586.40	11,577.52	36.09	35.01	-120.623	-405.82	1,303.62	1,547.34	1,507.12	40.22	38.474	
11,700.00	11,688.20	11,686.35	11,677.38	36.42	35.33	-120.623	-409.96	1,304.35	1,550.50	1,509.97	40.53	38.254	
11,800.00	11,788.09	11,786.30	11,777.24	36.76	35.66	-120.624	-414.11	1,305.08	1,553.66	1,512.81	40.84	38.038	
11,900.00	11,887.97	11,886.25	11,877.10	37.09	35.98	-120.624	-418.25	1,305.82	1,556.82	1,515.65	41.17	37.819	
11,908.72	11,896.68	11,894.96	11,885.81	37.12	36.01	-120.624	-418.61	1,305.88	1,557.10	1,515.90	41.19	37.800	
12,000.00	11,987.91	11,994.02	11,984.82	37.41	36.31	-120.654	-421.44	1,306.38	1,559.04	1,517.58	41.46	37.600	
12,047.14	12,035.04	12,044.24	12,035.04	37.47	36.36	89.527	-421.64	1,306.41	1,559.27	1,517.77	41.51	37.567	
12,100.00	12,087.91	12,097.11	12,087.91	37.47	36.36	89.527	-421.64	1,306.41	1,559.27	1,517.78	41.49	37.578	
12,200.00	12,187.91	12,197.11	12,187.91	37.48	36.36	89.527	-421.64	1,306.41	1,559.27	1,517.75	41.50	37.571	
12,300.00	12,287.91	12,297.11	12,287.91	37.48	36.36	89.527	-421.64	1,306.41	1,559.27	1,517.75	41.52	37.558	
12,400.00	12,387.91	12,397.11	12,387.91	37.49	36.37	89.527	-421.64	1,306.41	1,559.27	1,517.74	41.53	37.544	
12,500.00	12,487.91	12,497.11	12,487.91	37.50	36.37	89.527	-421.64	1,306.41	1,559.27	1,517.72	41.55	37.530	
12,500.35	12,488.25	12,497.45	12,488.25	37.50	36.37	89.527	-421.64	1,306.41	1,559.27	1,517.72	41.55	37.530	
12,547.14	12,535.04	12,544.18	12,534.98	37.49	36.39	89.535	-421.86	1,306.42	1,559.27	1,517.73	41.54	37.538	
12,550.00	12,537.91	12,547.03	12,537.83	37.50	36.40	-89.887	-421.95	1,306.42	1,559.27	1,517.73	41.54	37.538	
12,600.00	12,587.83	12,596.74	12,587.38	37.64	36.62	-89.836	-425.73	1,306.45	1,559.27	1,517.67	41.60	37.483	
12,650.00	12,637.36	12,646.34	12,636.30	37.90	36.93	-89.787	-433.77	1,306.53	1,559.27	1,517.57	41.70	37.391	
12,700.00	12,686.10	12,695.82	12,684.24	38.17	37.26	-89.740	-445.97	1,306.65	1,559.28	1,517.43	41.85	37.262	
12,750.00	12,733.70	12,745.19	12,730.84	38.46	37.59	-89.694	-462.22	1,306.81	1,559.27	1,517.24	42.03	37.097	
12,800.00	12,779.78	12,794.46	12,775.78	38.75	37.92	-89.651	-482.38	1,307.00	1,559.27	1,517.01	42.26	36.895	
12,850.00	12,824.00	12,843.63	12,818.75	39.03	38.25	-89.610	-506.27	1,307.23	1,559.27	1,516.73	42.54	36.654	
12,900.00	12,866.02	12,892.72	12,859.43	39.31	38.56	-89.573	-533.70	1,307.49	1,559.27	1,516.40	42.87	36.376	
12,950.00	12,905.52	12,941.72	12,897.55	39.57	38.85	-89.538	-564.46	1,307.79	1,559.26	1,516.02	43.24	36.059	
13,000.00	12,942.21	12,990.64	12,932.85	39.82	39.12	-89.508	-598.31	1,308.12	1,559.25	1,515.58	43.67	35.704	
13,050.00	12,975.79	13,039.50	12,965.10	40.06	39.38	-89.480	-634.99	1,308.47	1,559.24	1,515.09	44.16	35.313	
13,100.00	13,006.02	13,088.29	12,994.07	40.27	39.60	-89.457	-674.23	1,308.85	1,559.23	1,514.54	44.69	34.888	
13,150.00	13,032.66	13,137.04	13,019.58	40.46	39.80	-89.438	-715.75	1,309.25	1,559.22	1,513.94	45.28	34.432	
13,200.00	13,055.52	13,185.74	13,041.44	40.63	39.97	-89.423	-759.26	1,309.67	1,559.21	1,513.28	45.93	33.949	
13,250.00	13,074.42	13,234.41	13,059.53	40.77	40.11	-89.412	-804.43	1,310.10	1,559.19	1,512.57	46.62	33.443	
13,300.00	13,089.21	13,283.06	13,073.70	40.89	40.22	-89.405	-850.94	1,310.55	1,559.17	1,511.81	47.36	32.920	
13,350.00	13,099.79	13,331.70	13,083.89	40.99	40.31	-89.403	-898.48	1,311.01	1,559.16	1,511.01	48.15	32.384	
13,400.00	13,106.06	13,380.33	13,090.00	41.06	40.36	-89.406	-946.71	1,311.47	1,559.13	1,510.17	48.96	31.843	
13,447.14	13,108.00	13,426.18	13,092.00	41.11	40.39	-89.412	-992.50	1,311.91	1,559.11	1,509.35	49.76	31.333	
13,500.00	13,108.00	13,478.98	13,092.00	41.15	40.40	-89.412	-1,045.31	1,312.42	1,559.09	1,508.40	50.69	30.758	
13,600.00	13,108.00	13,578.98	13,092.00	41.25	40.43	-89.412	-1,145.30	1,313.38	1,559.05	1,506.52	52.53	29.679	
13,700.00	13,108.00	13,678.98	13,092.00	41.37	40.45	-89.412	-1,245.30	1,314.34	1,559.01	1,504.55	54.46	28.626	
13,800.00	13,108.00	13,778.98	13,092.00	41.51	40.49	-89.412	-1,345.29	1,315.31	1,558.97	1,502.49	56.47	27.605	
13,900.00	13,108.00	13,878.98	13,092.00	41.67	40.53	-89.412	-1,445.29	1,316.27	1,558.93	1,500.37	58.56	26.623	
14,000.00	13,108.00	13,978.98	13,092.00	41.87	40.57	-89.412	-1,545.28	1,317.23	1,558.88	1,498.18	60.70	25.681	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	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
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
14,100.00	13,108.00	14,078.98	13,092.00	42.10	40.62	-89.412	-1,645.28	1,318.20	1,558.84	1,495.94	62.90	24.782	
14,200.00	13,108.00	14,178.98	13,092.00	42.37	40.68	-89.412	-1,745.28	1,319.16	1,558.80	1,493.64	65.16	23.924	
14,300.00	13,108.00	14,278.98	13,092.00	42.69	40.74	-89.412	-1,845.27	1,320.12	1,558.76	1,491.30	67.46	23.107	
14,400.00	13,108.00	14,378.98	13,092.00	43.06	40.83	-89.412	-1,945.27	1,321.08	1,558.72	1,488.92	69.80	22.332	
14,500.00	13,108.00	14,478.98	13,092.00	43.48	40.93	-89.412	-2,045.26	1,322.05	1,558.68	1,486.50	72.18	21.595	
14,600.00	13,108.00	14,578.98	13,092.00	43.97	41.06	-89.412	-2,145.26	1,323.01	1,558.63	1,484.04	74.59	20.896	
14,700.00	13,108.00	14,678.98	13,092.00	44.53	41.24	-89.412	-2,245.25	1,323.97	1,558.59	1,481.56	77.04	20.232	
14,800.00	13,108.00	14,778.98	13,092.00	45.16	41.50	-89.412	-2,345.25	1,324.93	1,558.55	1,479.04	79.51	19.603	
14,900.00	13,108.00	14,878.98	13,092.00	45.87	41.89	-89.412	-2,445.24	1,325.90	1,558.51	1,476.50	82.01	19.005	
15,000.00	13,108.00	14,978.98	13,092.00	46.64	42.45	-89.412	-2,545.24	1,326.86	1,558.47	1,473.94	84.53	18.437	
15,100.00	13,108.00	15,078.98	13,092.00	47.49	43.23	-89.412	-2,645.23	1,327.82	1,558.43	1,471.36	87.07	17.898	
15,200.00	13,108.00	15,178.98	13,092.00	48.39	44.21	-89.412	-2,745.23	1,328.78	1,558.38	1,468.75	89.63	17.386	
15,300.00	13,108.00	15,278.98	13,092.00	49.36	45.31	-89.412	-2,845.22	1,329.75	1,558.34	1,466.13	92.21	16.899	
15,400.00	13,108.00	15,378.98	13,092.00	50.38	46.50	-89.412	-2,945.22	1,330.71	1,558.30	1,463.49	94.81	16.436	
15,500.00	13,108.00	15,478.98	13,092.00	51.44	47.75	-89.412	-3,045.22	1,331.67	1,558.26	1,460.84	97.42	15.995	
15,600.00	13,108.00	15,578.98	13,092.00	52.54	49.03	-89.412	-3,145.21	1,332.64	1,558.22	1,458.17	100.05	15.574	
15,700.00	13,108.00	15,678.98	13,092.00	53.67	50.33	-89.412	-3,245.21	1,333.60	1,558.18	1,455.49	102.69	15.174	
15,800.00	13,108.00	15,778.98	13,092.00	54.84	51.65	-89.412	-3,345.20	1,334.56	1,558.14	1,452.79	105.34	14.791	
15,900.00	13,108.00	15,878.98	13,092.00	56.02	52.98	-89.412	-3,445.20	1,335.52	1,558.09	1,450.09	108.00	14.426	
16,000.00	13,108.00	15,978.98	13,092.00	57.24	54.33	-89.412	-3,545.19	1,336.49	1,558.05	1,447.38	110.68	14.077	
16,100.00	13,108.00	16,078.98	13,092.00	58.47	55.68	-89.412	-3,645.19	1,337.45	1,558.01	1,444.65	113.36	13.744	
16,200.00	13,108.00	16,178.98	13,092.00	59.71	57.04	-89.412	-3,745.18	1,338.41	1,557.97	1,441.92	116.05	13.425	
16,300.00	13,108.00	16,278.98	13,092.00	60.97	58.40	-89.412	-3,845.18	1,339.37	1,557.93	1,439.18	118.75	13.119	
16,400.00	13,108.00	16,378.98	13,092.00	62.25	59.77	-89.412	-3,945.17	1,340.34	1,557.89	1,436.43	121.46	12.826	
16,500.00	13,108.00	16,478.98	13,092.00	63.53	61.15	-89.412	-4,045.17	1,341.30	1,557.84	1,433.67	124.17	12.546	
16,600.00	13,108.00	16,578.98	13,092.00	64.83	62.52	-89.412	-4,145.16	1,342.26	1,557.80	1,430.91	126.90	12.276	
16,700.00	13,108.00	16,678.98	13,092.00	66.13	63.91	-89.411	-4,245.16	1,343.22	1,557.76	1,428.14	129.63	12.017	
16,800.00	13,108.00	16,778.98	13,092.00	67.45	65.29	-89.411	-4,345.15	1,344.19	1,557.72	1,425.36	132.36	11.769	
16,900.00	13,108.00	16,878.98	13,092.00	68.77	66.68	-89.411	-4,445.15	1,345.15	1,557.68	1,422.58	135.10	11.530	
17,000.00	13,108.00	16,978.98	13,092.00	70.10	68.07	-89.411	-4,545.15	1,346.11	1,557.64	1,419.79	137.85	11.300	
17,100.00	13,108.00	17,078.98	13,092.00	71.43	69.46	-89.411	-4,645.14	1,347.08	1,557.59	1,417.00	140.60	11.078	
17,200.00	13,108.00	17,178.98	13,092.00	72.77	70.85	-89.411	-4,745.14	1,348.04	1,557.55	1,414.20	143.35	10.865	
17,300.00	13,108.00	17,278.98	13,092.00	74.11	72.25	-89.411	-4,845.13	1,349.00	1,557.51	1,411.40	146.11	10.660	
17,400.00	13,108.00	17,378.98	13,092.00	75.46	73.65	-89.411	-4,945.13	1,349.96	1,557.47	1,408.59	148.88	10.462	
17,500.00	13,108.00	17,478.98	13,092.00	76.81	75.04	-89.411	-5,045.12	1,350.93	1,557.43	1,405.78	151.64	10.270	
17,600.00	13,108.00	17,578.98	13,092.00	78.17	76.44	-89.411	-5,145.12	1,351.89	1,557.39	1,402.97	154.42	10.086	
17,700.00	13,108.00	17,678.98	13,092.00	79.53	77.85	-89.411	-5,245.11	1,352.85	1,557.34	1,400.15	157.19	9.907	
17,800.00	13,108.00	17,778.98	13,092.00	80.89	79.25	-89.411	-5,345.11	1,353.81	1,557.30	1,397.33	159.97	9.735	
17,900.00	13,108.00	17,878.98	13,092.00	82.26	80.66	-89.411	-5,445.10	1,354.78	1,557.26	1,394.51	162.75	9.568	
18,000.00	13,108.00	17,978.98	13,092.00	83.63	82.06	-89.411	-5,545.10	1,355.74	1,557.22	1,391.68	165.54	9.407	
18,100.00	13,108.00	18,078.98	13,092.00	85.00	83.47	-89.411	-5,645.09	1,356.70	1,557.18	1,388.85	168.33	9.251	
18,200.00	13,108.00	18,178.98	13,092.00	86.38	84.88	-89.411	-5,745.09	1,357.67	1,557.14	1,386.02	171.12	9.100	
18,300.00	13,108.00	18,278.98	13,092.00	87.76	86.29	-89.411	-5,845.09	1,358.63	1,557.10	1,383.18	173.91	8.953	
18,400.00	13,108.00	18,378.98	13,092.00	89.14	87.70	-89.411	-5,945.08	1,359.59	1,557.05	1,380.35	176.71	8.812	
18,500.00	13,108.00	18,478.98	13,092.00	90.52	89.11	-89.411	-6,045.08	1,360.55	1,557.01	1,377.51	179.50	8.674	
18,600.00	13,108.00	18,578.98	13,092.00	91.90	90.52	-89.411	-6,145.07	1,361.52	1,556.97	1,374.67	182.31	8.540	
18,700.00	13,108.00	18,678.98	13,092.00	93.29	91.93	-89.411	-6,245.07	1,362.48	1,556.93	1,371.82	185.11	8.411	
18,800.00	13,108.00	18,778.98	13,092.00	94.68	93.34	-89.411	-6,345.06	1,363.44	1,556.89	1,368.97	187.91	8.285	
18,900.00	13,108.00	18,878.98	13,092.00	96.06	94.76	-89.411	-6,445.06	1,364.40	1,556.85	1,366.13	190.72	8.163	
19,000.00	13,108.00	18,978.98	13,092.00	97.46	96.17	-89.411	-6,545.05	1,365.37	1,556.80	1,363.28	193.53	8.044	
19,100.00	13,108.00	19,078.98	13,092.00	98.85	97.59	-89.411	-6,645.05	1,366.33	1,556.76	1,360.42	196.34	7.929	
19,200.00	13,108.00	19,178.98	13,092.00	100.24	99.00	-89.411	-6,745.04	1,367.29	1,556.72	1,357.57	199.15	7.817	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

Offset Design: El Campeon Fed Com (NAD83) - El Campeon Fed Com 513H - OH - Plan 1 08-31-22												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	13,108.00	19,278.98	13,092.00	101.64	100.42	-89.411	-6,845.04	1,368.25	1,556.68	1,354.71	201.97	7.708	
19,400.00	13,108.00	19,378.98	13,092.00	103.03	101.84	-89.411	-6,945.03	1,369.22	1,556.64	1,351.86	204.78	7.601	
19,500.00	13,108.00	19,478.98	13,092.00	104.43	103.26	-89.411	-7,045.03	1,370.18	1,556.60	1,349.00	207.60	7.498	
19,600.00	13,108.00	19,578.98	13,092.00	105.83	104.67	-89.411	-7,145.02	1,371.14	1,556.55	1,346.14	210.42	7.397	
19,700.00	13,108.00	19,678.98	13,092.00	107.23	106.09	-89.411	-7,245.02	1,372.11	1,556.51	1,343.27	213.24	7.299	
19,800.00	13,108.00	19,778.98	13,092.00	108.63	107.51	-89.411	-7,345.02	1,373.07	1,556.47	1,340.41	216.06	7.204	
19,900.00	13,108.00	19,878.98	13,092.00	110.03	108.93	-89.411	-7,445.01	1,374.03	1,556.43	1,337.55	218.88	7.111	
20,000.00	13,108.00	19,978.98	13,092.00	111.43	110.35	-89.411	-7,545.01	1,374.99	1,556.39	1,334.68	221.71	7.020	
20,100.00	13,108.00	20,078.98	13,092.00	112.84	111.77	-89.411	-7,645.00	1,375.96	1,556.35	1,331.81	224.53	6.932	
20,200.00	13,108.00	20,178.98	13,092.00	114.24	113.19	-89.411	-7,745.00	1,376.92	1,556.30	1,328.95	227.36	6.845	
20,300.00	13,108.00	20,278.98	13,092.00	115.65	114.61	-89.411	-7,844.99	1,377.88	1,556.26	1,326.08	230.19	6.761	
20,400.00	13,108.00	20,378.98	13,092.00	117.05	116.04	-89.411	-7,944.99	1,378.84	1,556.22	1,323.21	233.02	6.679	
20,500.00	13,108.00	20,478.98	13,092.00	118.46	117.46	-89.411	-8,044.98	1,379.81	1,556.18	1,320.34	235.84	6.598	
20,600.00	13,108.00	20,578.98	13,092.00	119.87	118.88	-89.411	-8,144.98	1,380.77	1,556.14	1,317.46	238.68	6.520	
20,700.00	13,108.00	20,678.98	13,092.00	121.28	120.30	-89.411	-8,244.97	1,381.73	1,556.10	1,314.59	241.51	6.443	
20,800.00	13,108.00	20,778.98	13,092.00	122.68	121.73	-89.411	-8,344.97	1,382.69	1,556.06	1,311.72	244.34	6.368	
20,900.00	13,108.00	20,878.98	13,092.00	124.09	123.15	-89.411	-8,444.96	1,383.66	1,556.01	1,308.84	247.17	6.295	
21,000.00	13,108.00	20,978.98	13,092.00	125.51	124.57	-89.411	-8,544.96	1,384.62	1,555.97	1,305.96	250.01	6.224	
21,100.00	13,108.00	21,078.98	13,092.00	126.92	126.00	-89.411	-8,644.96	1,385.58	1,555.93	1,303.09	252.84	6.154	
21,200.00	13,108.00	21,178.98	13,092.00	128.33	127.42	-89.411	-8,744.95	1,386.55	1,555.89	1,300.21	255.68	6.085	
21,300.00	13,108.00	21,278.98	13,092.00	129.74	128.85	-89.411	-8,844.95	1,387.51	1,555.85	1,297.33	258.52	6.018	
21,400.00	13,108.00	21,378.98	13,092.00	131.15	130.27	-89.411	-8,944.94	1,388.47	1,555.81	1,294.45	261.35	5.953	
21,500.00	13,108.00	21,478.98	13,092.00	132.57	131.70	-89.411	-9,044.94	1,389.43	1,555.76	1,291.57	264.19	5.889	
21,600.00	13,108.00	21,578.98	13,092.00	133.98	133.12	-89.411	-9,144.93	1,390.40	1,555.72	1,288.69	267.03	5.826	
21,700.00	13,108.00	21,678.98	13,092.00	135.39	134.55	-89.411	-9,244.93	1,391.36	1,555.68	1,285.81	269.87	5.765	
21,800.00	13,108.00	21,778.98	13,092.00	136.81	135.97	-89.411	-9,344.92	1,392.32	1,555.64	1,282.93	272.71	5.704	
21,900.00	13,108.00	21,878.98	13,092.00	138.22	137.40	-89.411	-9,444.92	1,393.28	1,555.60	1,280.04	275.55	5.645	
22,000.00	13,108.00	21,978.98	13,092.00	139.64	138.82	-89.411	-9,544.91	1,394.25	1,555.56	1,277.16	278.40	5.588	
22,100.00	13,108.00	22,078.98	13,092.00	141.06	140.25	-89.411	-9,644.91	1,395.21	1,555.51	1,274.28	281.24	5.531	
22,200.00	13,108.00	22,178.98	13,092.00	142.47	141.68	-89.411	-9,744.90	1,396.17	1,555.47	1,271.39	284.08	5.475	
22,300.00	13,108.00	22,278.98	13,092.00	143.89	143.10	-89.411	-9,844.90	1,397.14	1,555.43	1,268.51	286.93	5.421	
22,400.00	13,108.00	22,378.98	13,092.00	145.31	144.53	-89.411	-9,944.89	1,398.10	1,555.39	1,265.62	289.77	5.368	
22,500.00	13,108.00	22,478.98	13,092.00	146.72	145.96	-89.411	-10,044.89	1,399.06	1,555.35	1,262.73	292.61	5.315	
22,600.00	13,108.00	22,578.98	13,092.00	148.14	147.39	-89.411	-10,144.89	1,400.02	1,555.31	1,259.85	295.46	5.264	
22,700.00	13,108.00	22,678.98	13,092.00	149.56	148.81	-89.411	-10,244.88	1,400.99	1,555.26	1,256.96	298.31	5.214	
22,748.81	13,108.00	22,727.79	13,092.00	150.25	149.51	-89.411	-10,293.69	1,401.46	1,555.24	1,255.55	299.69	5.189	
22,800.00	13,108.00	22,728.24	13,092.00	150.98	149.52	-89.411	-10,294.14	1,401.46	1,556.05	1,255.78	300.27	5.182 SF	
22,900.00	13,108.00	22,728.24	13,092.00	152.40	149.52	-89.411	-10,294.14	1,401.46	1,562.47	1,261.94	300.53	5.199	
23,000.00	13,108.00	22,728.24	13,092.00	153.82	149.52	-89.411	-10,294.14	1,401.46	1,575.22	1,275.54	299.68	5.256	
23,100.00	13,108.00	22,728.24	13,092.00	155.24	149.52	-89.411	-10,294.14	1,401.46	1,594.16	1,296.36	297.80	5.353	
23,200.00	13,108.00	22,728.24	13,092.00	156.66	149.52	-89.411	-10,294.14	1,401.46	1,619.06	1,324.09	294.97	5.489	
23,247.14	13,108.00	22,728.24	13,092.00	157.33	149.52	-89.411	-10,294.14	1,401.46	1,632.79	1,339.45	293.34	5.566	

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 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

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

Offset Depths are relative to Offset Datum

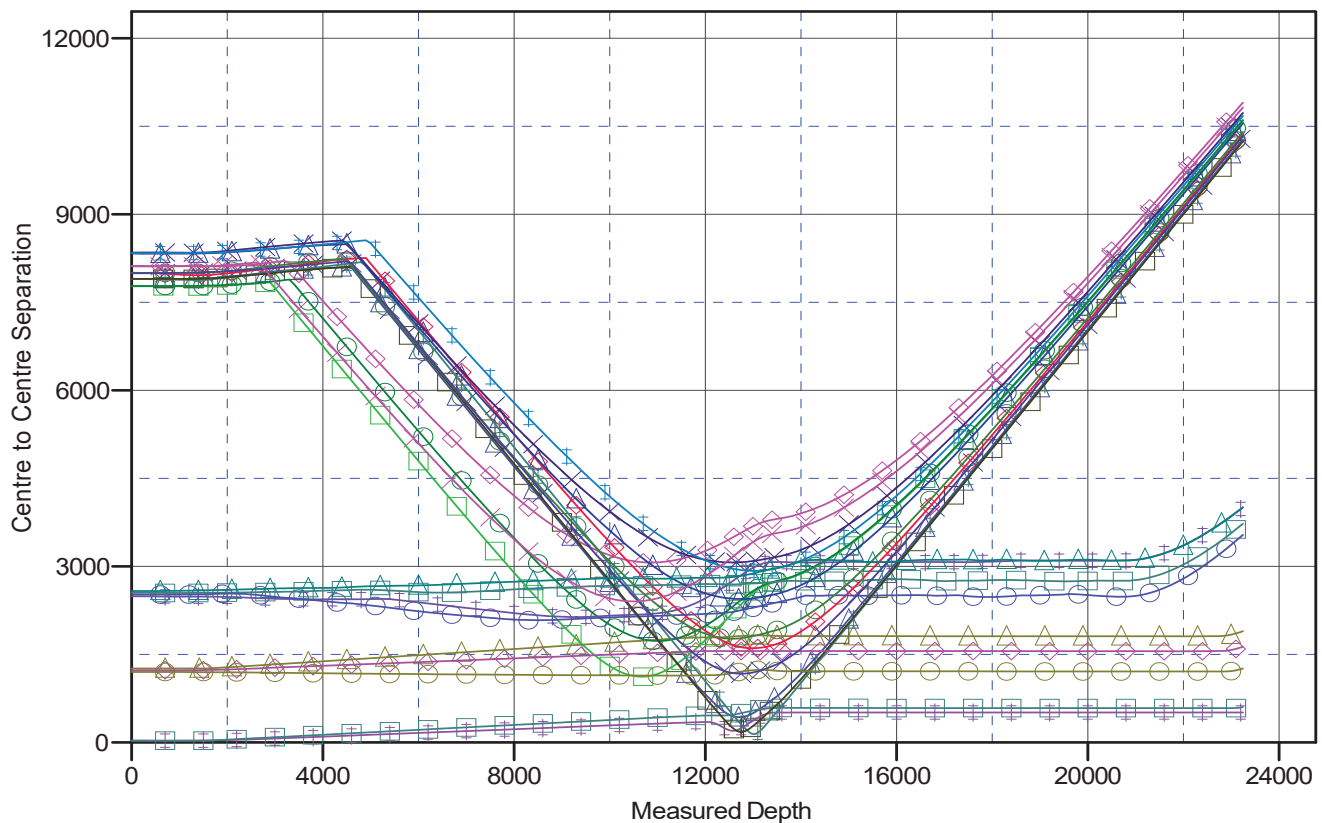
Central Meridian is 104° 19' 60.000000 W

Coordinates are relative to: El Campeon Fed Com 512H

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

Grid Convergence at Surface is: 0.500°

Ladder Plot



LEGEND

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

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



Anticollision Report

TITUS

OIL GAS LLC

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well El Campeon Fed Com 512H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3200.50usft (TBD)
Reference Site:	El Campeon Fed Com (NAD83)	MD Reference:	RKB @ 3200.50usft (TBD)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	El Campeon Fed Com 512H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 08-31-22	Offset TVD Reference:	Reference Datum

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

Offset Depths are relative to Offset Datum

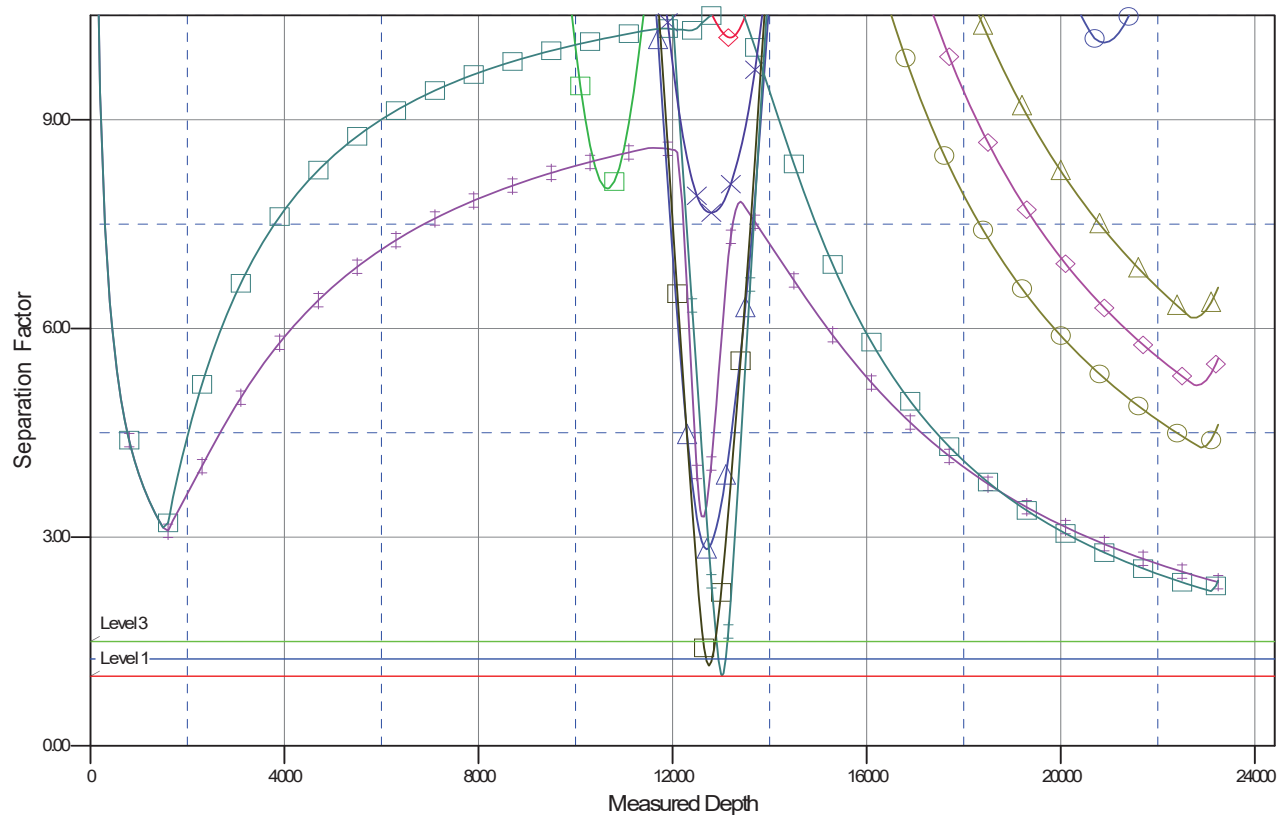
Central Meridian is 104° 19' 60.000000 W

Coordinates are relative to: El Campeon Fed Com 512H

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

Grid Convergence at Surface is: 0.500°

Separation Factor Plot



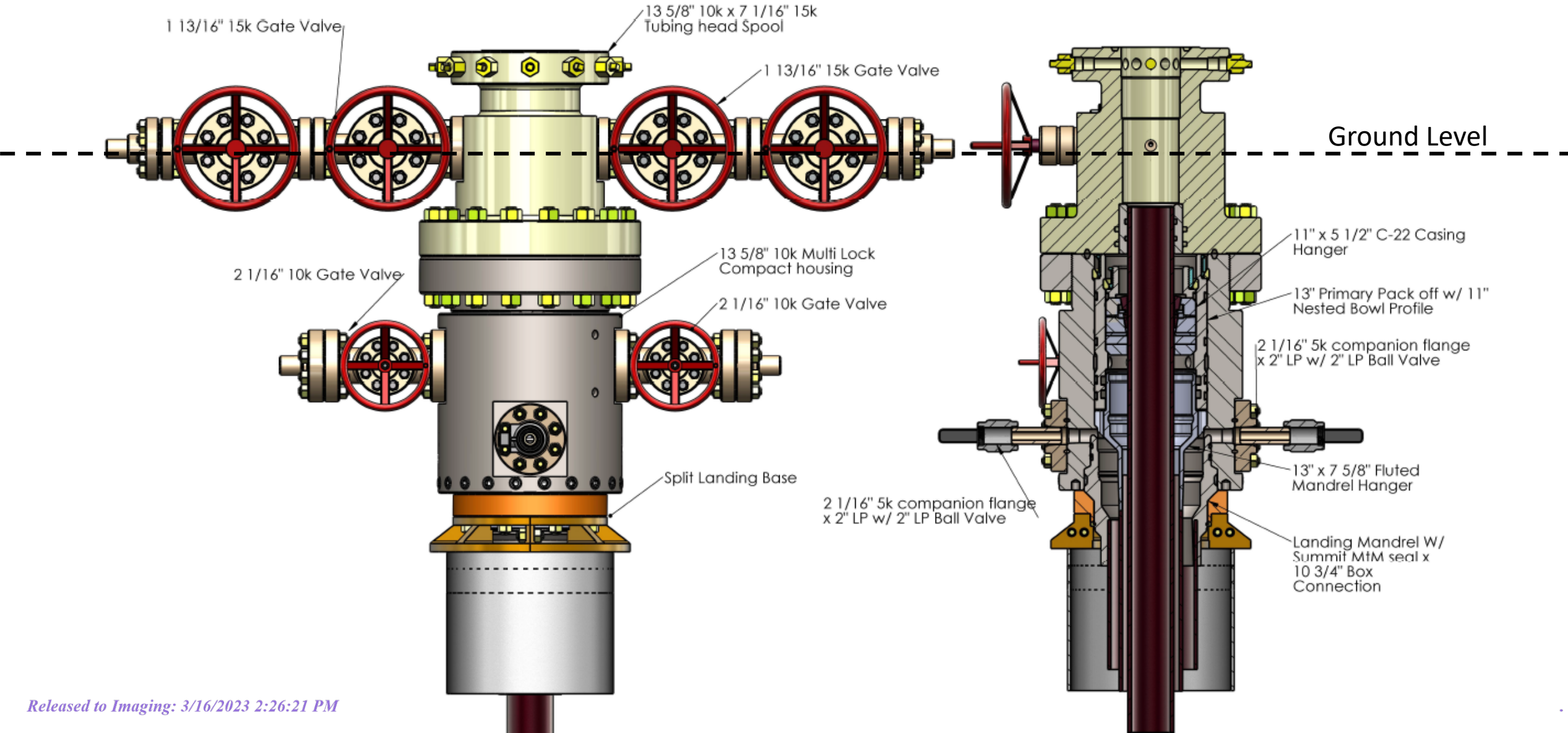
LEGEND

El Campeon Red Com 433H, OH, Plan 1 08-31-22 V0	514H, OH / 6824, Surveys (H&P 474) V0	Cattlemen Red Com 434H, OH / 67733, Surveys (H&P 474) 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 514H, OH / 67734, 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	El Campeon Red Com 413H, OH, Plan 1 08-31-22 V0
Cattlemen Red Com 213H, OH / 69914, Surveys (H&P 616) V0	512H, OH / 6837, Surveys (H&P 625) V0	433H, OH / 6866, Surveys (H&P 656) V0
Cattlemen Red Com 204H, OH / 69917, Surveys (H&P 656) V0	432H, OH / 6836, Surveys (H&P 625) V0	Cattlemen Red Com 114H, OH / 69918, Surveys (H&P 656) V0
214H, OH / 6821, Surveys (H&P 474) V0	Cattlemen Red Com 404H, OH / 67732, Surveys (H&P 474) V0	404H, OH / 6822, Surveys (H&P 474) V0
513H, OH / 6905, Surveys (H&P 656) V0	El Campeon Red Com 513H, OH, Plan 1 08-31-22 V0	
422H, OH / 6835, Surveys (H&P 625) V0	403H, OH / 6904, Surveys (H&P 656) V0	

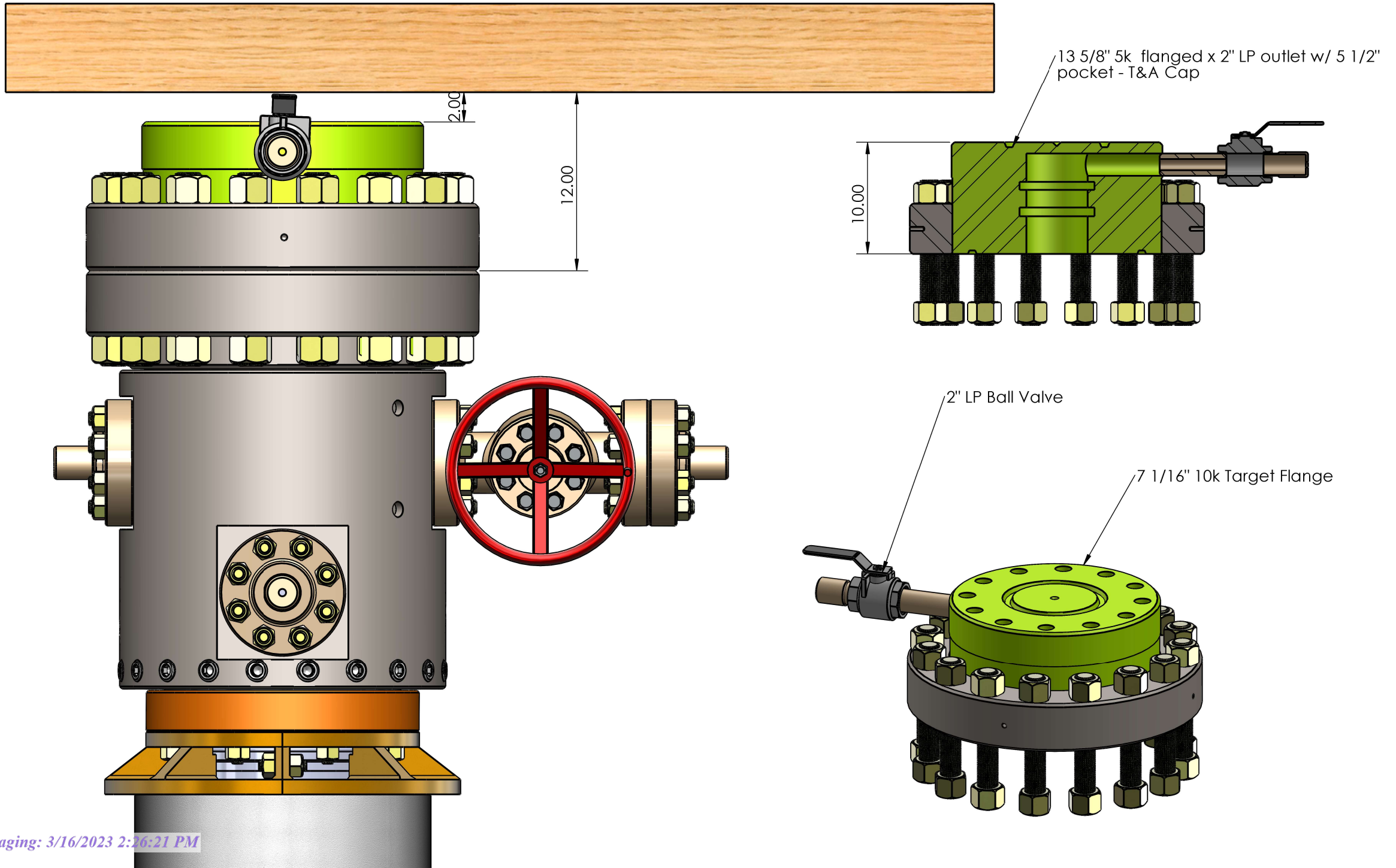
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



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 195534

CONDITIONS

Operator: Earthstone Operating, LLC 1400 Woodloch Forest; Ste 300 The Woodlands, TX 77380	OGRID: 331165
	Action Number: 195534
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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