

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☐ DRILL ☐ REENTER 1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No.
2. Name of Operator		9. API Well No. 30-015-49926
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory <u> </u>
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
13. State		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|---|---|
| 1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM. |
|---|---|

25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		
Office		

Application approval 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.
 Conditions of approval, if any, are attached.

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.

(Continued on page 2)

*(Instructions on page 2)



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 30-015- 49926	2 Pool Code 98081	3 Pool Name Zia Hills; Wolfcamp
4 Property Code 333233	5 Property Name ZIA HILLS UNIT 2731 WC	6 Well Number 5H
7 OGRID No. 217817	8 Operator Name CONOCOPHILLIPS COMPANY	9 Elevation 3164.89'

10 Surface Location

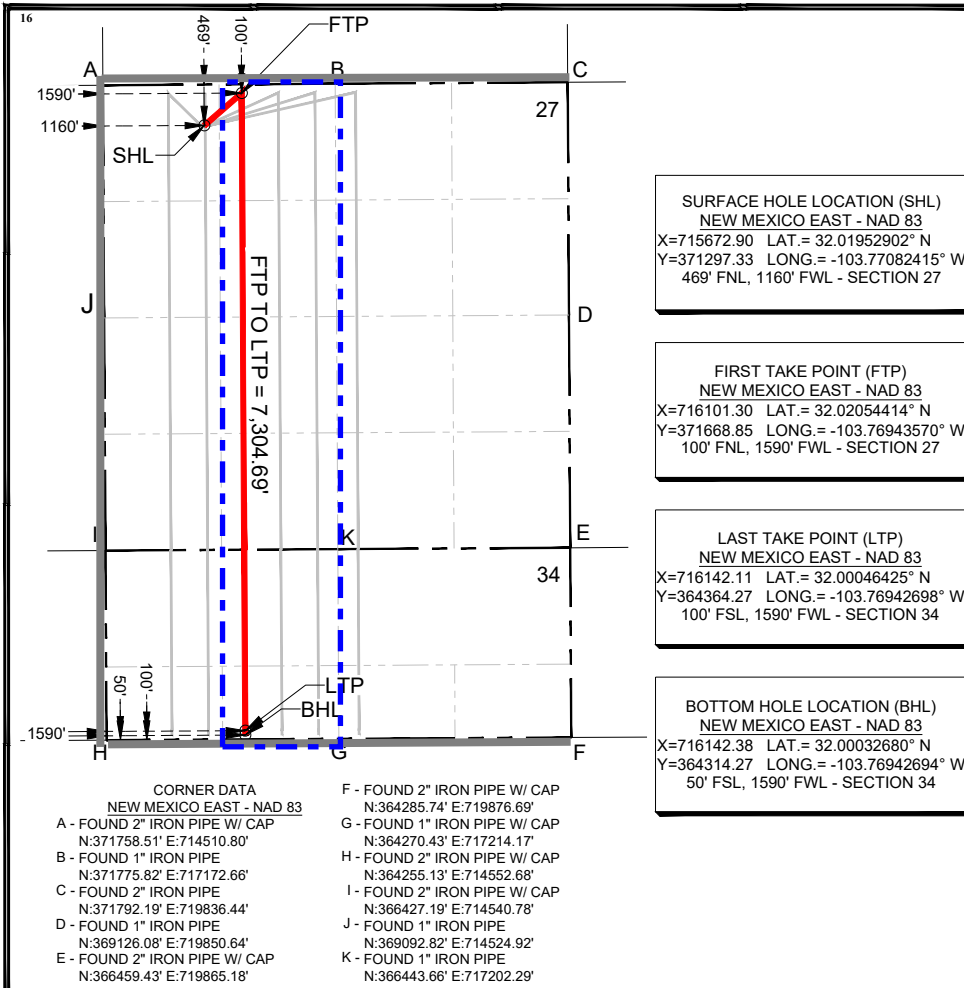
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	27	26-S	31-E		469'	NORTH	1160'	WEST	EDDY

11 Bottom Hole Location 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
LOT 3	34	26-S	31-E		50'	SOUTH	1590'	WEST	EDDY

12 Dedicated Acres 13,383.35 Unit 225.2	13 Joint or Infill Infill	14 Consolidation Code Unit	15 Order No. R-20080
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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.



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Stan Wagner 3/28/2022
Signature Date

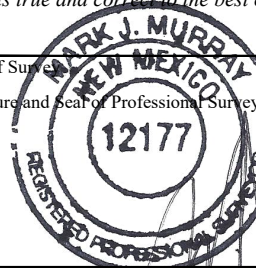
Stan Wagner
Printed Name

E-mail Address

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey
Signature and Seal of Professional Surveyor:



Certificate Number

3/8/2022

Additional Operator Remarks

Location of Well

0. SHL: NWNW / 469 FNL / 1160 FWL / TWSP: 26S / RANGE: 31E / SECTION: 27 / LAT: 32.019528 / LONG: -103.770824 (TVD: 0 feet, MD: 0 feet)

PPP: NENW / 100 FNL / 1590 FWL / TWSP: 26S / RANGE: 31E / SECTION: 27 / LAT: 32.020544 / LONG: -103.7694357 (TVD: 11201 feet, MD: 11264 feet)

BHL: LOT 3 / 50 FSL / 1590 FWL / TWSP: 26S / RANGE: 31E / SECTION: 34 / LAT: 32.000326 / LONG: -103.7694269 (TVD: 11365 feet, MD: 18467 feet)

BLM Point of Contact

Name: CIJI METHOLA

Title: GIS Support - Adjudicator

Phone: (575) 234-5924

Email: cmethola@blm.gov

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	ConocoPhillips
LEASE NO.:	NMLC68282A
LOCATION:	Section 27, T.26 S., R.31 E., NMPM
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:	Zia Hills Unit 2731 5H
SURFACE HOLE FOOTAGE:	469'/N & 1160'/W
BOTTOM HOLE FOOTAGE:	50'/S & 1590'/W

COA

H2S	☐ Yes	☒ No	
Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☐ Low	☒ Medium	☐ High
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☒ Multibowl	☐ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☐ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☐ COM	☒ 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 **1139** 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 lead cement slurry due to cave/karst.**
- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. **Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).**
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi. Variance is approved to use a 10,000 (10M) Annular which shall be tested to 10,000 (10M) 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)**Unit Wells**

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months. (This is not necessary for secondary recovery unit wells)

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.

ZS 080922

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

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: ConocoPhillips Company

OGRID: 217817

Date: 03/21/2022

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Zia Hills Unit 2731 WC 3H	30-015-	D-27-26S-31E	469 FNL & 1120 FWL	± 695	± 2728	± 1621
Zia Hills Unit 2731 WC 4H	30-015-	D-27-26S-31E	469 FNL & 1140 FWL	± 572	± 2246	± 1335
Zia Hills Unit 2731 WC 5H	30-015-	D-27-26S-31E	469 FNL & 1160 FWL	± 818	± 3209	± 1907
Zia Hills Unit 2731 WC 6H	30-015-	D-27-26S-31E	469 FNL & 1180 FWL	± 818	± 3209	± 1907
Zia Hills Unit 2731 WC 7H	30-015-	D-27-26S-31E	469 FNL & 1200 FWL	± 818	± 3209	± 1907
Zia Hills Unit 2731 WC 8H	30-015-	D-27-26S-31E	469 FNL & 1220 FWL	± 818	± 3209	± 1907

IV. Central Delivery Point Name: Zia Hills Unit 2731 WC East Facility NE/NW 27-26S-31E [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Zia Hills Unit 2731 WC 3H, 4H, 5H, 6H, 7H, 8H	Pending	± 1/18/2023	± 25 days from spud	TBD	TBD	TBD

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

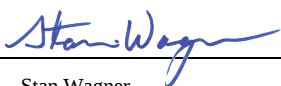
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: 
Printed Name: Stan Wagner
Title: Regulatory Advisor
E-mail Address: stan.s.wagner@conocophillips.com
Date: 03/21/2022
Phone: 432-253-9685
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment

How Operator will size separation equipment to optimize gas capture:

All ConocoPhillips production facility equipment will be sized per industry standards (API 12J) with adequate retention time to effectively separate all phases of production. Each project will take into consideration the number of wells and type curves for each formation pool to ensure adequate facility capacity. Design considerations will also include review of all piping, tanks, VRU's and associated equipment to ensure optimized gas capture minimized risk of release.

VII. Operational Practices

Actions Operator will take to comply with the requirements below:

B. Drilling Operations

- During drilling, flare stacks will be located a minimum of 100 feet from the nearest surface hole location. All gas is captured or combusted. If an emergency or malfunction occurs, gas will be flared or vented for public health, safety, and the environment and be properly reported to the NMOCD pursuant to 19.15.27.8.G.
- Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.

C. Completion Operations

- During completion operations, operator does not produce oil or gas but maintains adequate well control through completion operations.
- Individual well test separators will be set to properly separate gas and liquids. A temporary test separator will be utilized initially to process volumes. In addition, separators will be tied into flowback tanks which will be tied into the gas processing equipment for sales down a pipeline.

D. Venting and flaring during production operations

- During each phase of well life (drilling, completion and production) of a ConocoPhillips well, COP personnel will follow all necessary procedures to ensure both the operation and the equipment are within the NMAC 19.15.27.8 Subsection D guidelines.
- During well operations that require unloading of the well to atmospheric pressure, all reasonable actions will be taken to minimize vented gas
- Through the life of the well all flaring shall be measured, and venting events quantified using the data available and industry best practice.

E. Performance standards for separation, storage tank and flare equipment

- All storage tanks and separation equipment are designed minimize risk of liquid or vapor release and optimize gas capture. This includes automation for automatic gauging and pressure monitoring.

- All flare stacks are equipped with auto ignition devices and/or continuous pilots and are designed to operate at maximum combustion efficiency pursuant NMAC 19.15.27.8 Subsection E. Flares will follow COP spacing guidelines to ensure they are a safe distance from combustibles and operations equipment.
- COP personnel will conduct routine AVO inspections on a regular basis per NMAC 19.15.27.8 Subsection E guidelines.

F. Measurement of vented and flared natural gas.

- Measurement equipment will be installed to quantify gas flared during drilling, completion and production of the well.
- All measurement devices installed will meet accuracy ratings per AGA and API standards.
- Measurement devices will be installed without manifolds that allow diversion of gas around the metering element, except for the sole purpose of inspection of servicing the measurement device.

VIII. Best Management Practices

- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize blowdowns to atmosphere
- When feasible, Operator will use electric or air actuated equipment to reduce bleed emissions

ConocoPhillips Company - Zia Hills Unit 2731 WC 5H

1. Geologic Formations

TVD of target	11,365' EOL	Pilot hole depth	NA
MD at TD:	18,467'	Deepest expected fresh water:	250'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	819	Water	
Top of Salt	1133	Salt	
Base of Salt	3768	Salt	
Lamar	3969	Salt Water	
Bell Canyon	4002	Salt Water	
Cherry Canyon	4960	Oil/Gas	
Brushy Canyon	6211	Oil/Gas	
Bone spring	7968	Oil/Gas	
1st Bone Spring Sand	8979	Oil/Gas	
2nd Bone Spring Sand	9589	Oil/Gas	
3rd Bone Spring Carbonate	10127	Oil/Gas	
3rd Bone Spring Sand	10827	Oil/Gas	
Wolfcamp	11210	Oil/Gas	
Wolfcamp A	11418	Target	
Wolfcamp B	11752	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	950	10.75"	45.5	J-55	BTC	4.81	1.15	18.42	18.42
9.875"	0	8000	7.625"	29.7	L80	BTC	1.51	1.10	2.13	2.25
8.750"	8000	10777	7.625"	29.7	P110	Wedge 513	1.40	1.56	2.94	1.76
6.75"	0	10577	5.5"	23	P110	TXP BTC	1.97	2.32	2.79	2.79
6.75"	10577	18,467	5.5"	23	P110	Wedge 441	1.97	2.32	2.79	2.53
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	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 5.5" 23# Wedge 441 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.

ConocoPhillips Company - Zia Hills Unit 2731 WC 5H

	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.	Y
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?	

ConocoPhillips Company - Zia Hills Unit 2731 WC 5H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	453	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
Inter. Stage 1	780	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	491	12.7	2	10.7	72	Lead: 50:50:10 H Blend
	744	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

If losses are encountered in the intermediate section a DV/ECP tool will be run ~50' above the Lamar Lime top, cement will be adjusted accordingly if this contingency is necessary.

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results

Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
Production	7,500'	35% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 2731 WC 5H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
9-7/8"	13-5/8"	5M	Annular	x	2500psi
			Blind Ram	x	5000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		
6-3/4"	13-5/8"	10M	5M Annular	x	3500 psi
			Blind Ram	x	10000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		

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. See attached schematics.

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.

ConocoPhillips Company - Zia Hills Unit 2731 WC 5H

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	7-5/8" Int shoe	Brine Diesel Emulsion	8.8 - 9.4	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	12 - 12.5	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.
Y	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	

ConocoPhillips Company - Zia Hills Unit 2731 WC 5H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	7390 psi at 11365' TVD
Abnormal Temperature	NO 170 Deg. F.

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

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

Hydrogen Sulfide (H ₂ S) monitors will be installed prior to drilling out the surface shoe. If H ₂ S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
N	H ₂ S is present
Y	H ₂ S Plan attached

8. Other Facets of Operation

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

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

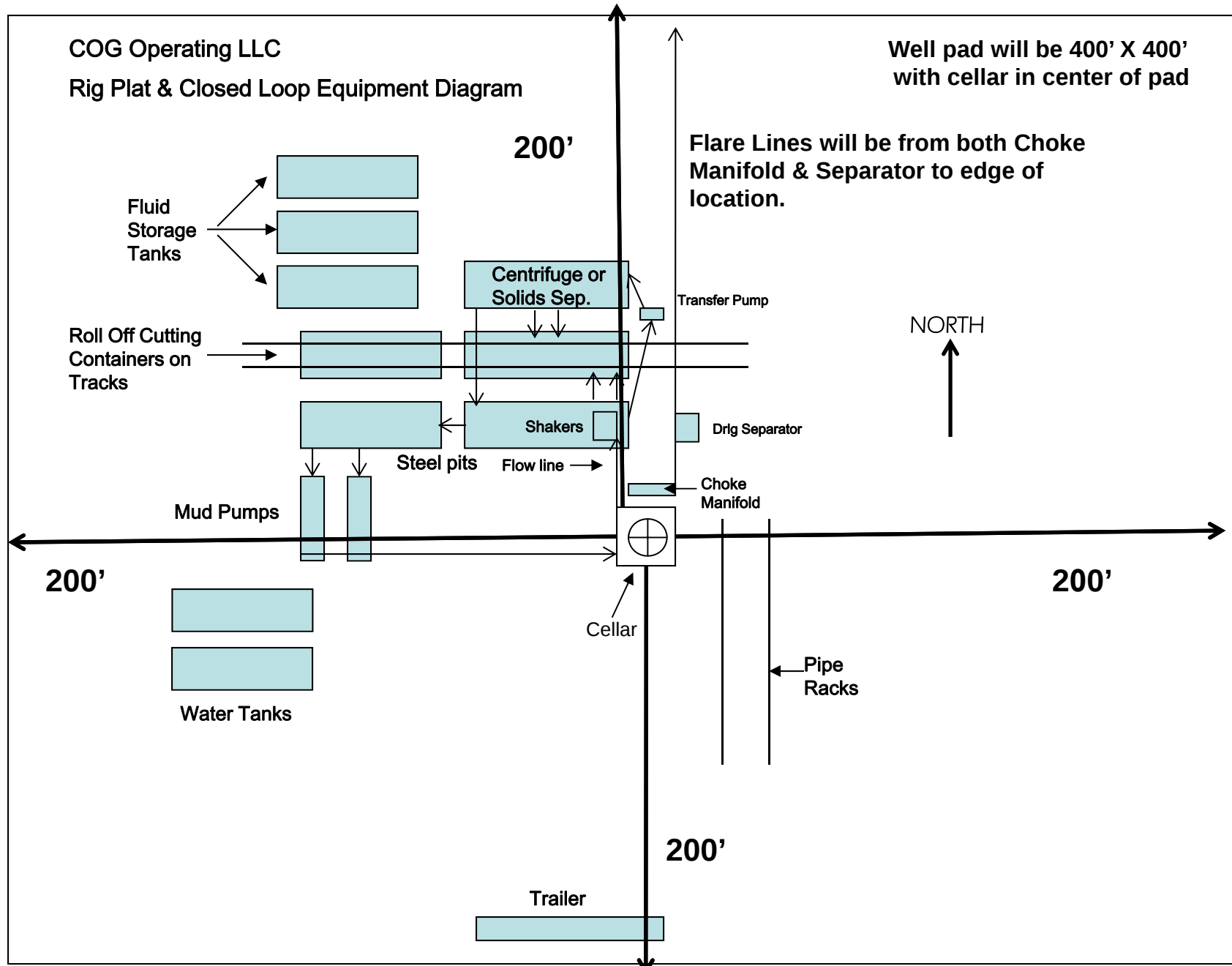


Exhibit 1

"I further certify that COG will comply with Rule 19.15.17 NMAC by using a Closed Loop System."

DELAWARE BASIN EAST

LEA PROSPECT (NM-E)

ZIA HILLS UNIT 2731 PROJECT

ZIA HILLS UNIT 2731 WC #5H

OWB

PWP1

Anticollision Report

24 March, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #5H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB-31 @ 3195.9usft (N 894)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	MD Reference:	KB-31 @ 3195.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #5H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference	PWP1
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	Stations
Depth Range:	Unlimited
Results Limited by:	Maximum centre distance of 1,000.0usft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Pedal Curve
Casing Method:	Not applied

Survey Tool Program		Date	3/24/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	10,892.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
10,892.0	18,467.3	PWP1 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
ZIA HILLS UNIT 2731 PROJECT						
*ZIA HILLS UNIT 2731 WC #7H - OWB - PWP0	2,500.0	2,497.1	40.2	33.3	5.823	CC, ES
*ZIA HILLS UNIT 2731 WC #7H - OWB - PWP0	2,600.0	2,595.8	40.3	33.3	5.786	SF
*ZIA HILLS UNIT 2731 WC #8H - OWB - PWP0	2,000.0	1,997.1	60.2	53.6	9.142	CC, ES, SF
STAMPEDE FEDERAL 27 1M - STAMPEDE FEDERAL 2	14,216.5	11,342.7	282.4	237.2	6.245	CC, ES, SF
ZIA HILLS UNIT 2731 WC #3H - OWB - PWP1	2,500.0	2,499.7	40.1	33.2	5.808	CC, ES, SF
ZIA HILLS UNIT 2731 WC #4H - OWB - PWP1	2,500.0	2,500.1	20.1	13.2	2.913	CC, ES, SF
ZIA HILLS UNIT 2731 WC #6H - OWB - PWP1	2,500.0	2,499.1	20.1	13.2	2.912	CC, ES
ZIA HILLS UNIT 2731 WC #6H - OWB - PWP1	2,600.0	2,598.4	20.2	13.3	2.906	SF

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

ConocoPhillips

Anticollision Report

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Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #5H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

TD 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						
ZIA HILLS UNIT 2731 PROJECT						
*ZIA HILLS UNIT 2731 WC #7H - OWB - PWP0	18,467.3	18,358.8	853.8	742.2	7.649	
*ZIA HILLS UNIT 2731 WC #8H - OWB - PWP0	18,467.3	18,542.7				Out of Range @TD
STAMPEDE FEDERAL 27 1M - STAMPEDE FEDERAL 2	18,467.3	11,409.2				Out of Range @TD
ZIA HILLS UNIT 2731 WC #3H - OWB - PWP1	18,467.3	18,464.4	840.0	726.5	7.402	
ZIA HILLS UNIT 2731 WC #4H - OWB - PWP1	18,467.3	18,606.8	427.3	313.8	3.763	
ZIA HILLS UNIT 2731 WC #6H - OWB - PWP1	18,467.3	18,632.7	453.4	338.1	3.933	

Offset Design: ZIA HILLS UNIT 2731 PROJECT - *ZIA HILLS UNIT 2731 WC #7H - OWB - PWP0

Survey Program:		0-Standard Keeper 104, 10964-MWD+IFR1+MS										Offset Site Error:		0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	3.0 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	
0.0	0.0	0.0	0.0	3.0	3.0	90.26	-0.2	40.1	40.3					
100.0	100.0	97.1	97.1	3.0	3.0	90.26	-0.2	40.1	40.2	34.2	6.00	6.692		
200.0	200.0	197.1	197.1	3.0	3.0	90.26	-0.2	40.1	40.2	34.1	6.00	6.689		
300.0	300.0	297.1	297.1	3.0	3.0	90.26	-0.2	40.1	40.2	34.1	6.01	6.682		
400.0	400.0	397.1	397.1	3.0	3.0	90.26	-0.2	40.1	40.2	34.1	6.02	6.672		
500.0	500.0	497.1	497.1	3.1	3.1	90.26	-0.2	40.1	40.2	34.1	6.03	6.658		
600.0	600.0	597.1	597.1	3.1	3.1	90.26	-0.2	40.1	40.2	34.1	6.05	6.641		
700.0	700.0	697.1	697.1	3.1	3.1	90.26	-0.2	40.1	40.2	34.1	6.06	6.620		
800.0	800.0	797.1	797.1	3.2	3.2	90.26	-0.2	40.1	40.2	34.1	6.09	6.596		
900.0	900.0	897.1	897.1	3.2	3.2	90.26	-0.2	40.1	40.2	34.0	6.11	6.569		
1,000.0	1,000.0	997.1	997.1	3.2	3.2	90.26	-0.2	40.1	40.2	34.0	6.14	6.539		
1,100.0	1,100.0	1,097.1	1,097.1	3.3	3.3	90.26	-0.2	40.1	40.2	34.0	6.17	6.506		
1,200.0	1,200.0	1,197.1	1,197.1	3.4	3.4	90.26	-0.2	40.1	40.2	33.9	6.21	6.470		
1,300.0	1,300.0	1,297.1	1,297.1	3.4	3.4	90.26	-0.2	40.1	40.2	33.9	6.24	6.432		
1,400.0	1,400.0	1,397.1	1,397.1	3.5	3.5	90.26	-0.2	40.1	40.2	33.9	6.28	6.391		
1,500.0	1,500.0	1,497.1	1,497.1	3.5	3.5	90.26	-0.2	40.1	40.2	33.8	6.32	6.348		
1,600.0	1,600.0	1,597.1	1,597.1	3.6	3.6	90.26	-0.2	40.1	40.2	33.8	6.37	6.303		
1,700.0	1,700.0	1,697.1	1,697.1	3.7	3.7	90.26	-0.2	40.1	40.2	33.7	6.42	6.255		
1,800.0	1,800.0	1,797.1	1,797.1	3.8	3.8	90.26	-0.2	40.1	40.2	33.7	6.47	6.206		
1,900.0	1,900.0	1,897.1	1,897.1	3.9	3.9	90.26	-0.2	40.1	40.2	33.6	6.52	6.155		
2,000.0	2,000.0	1,997.1	1,997.1	3.9	3.9	90.26	-0.2	40.1	40.2	33.6	6.58	6.103		
2,100.0	2,100.0	2,097.1	2,097.1	4.0	4.0	90.26	-0.2	40.1	40.2	33.5	6.64	6.049		
2,200.0	2,200.0	2,197.1	2,197.1	4.1	4.1	90.26	-0.2	40.1	40.2	33.5	6.70	5.994		
2,300.0	2,300.0	2,297.1	2,297.1	4.2	4.2	90.26	-0.2	40.1	40.2	33.4	6.76	5.938		
2,400.0	2,400.0	2,397.1	2,397.1	4.3	4.3	90.26	-0.2	40.1	40.2	33.3	6.83	5.881		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #5H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB-31 @ 3195.9usft (N 894)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	MD Reference:	KB-31 @ 3195.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #5H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2731 PROJECT - *ZIA HILLS UNIT 2731 WC #7H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 10964-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance	Between	Between	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)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
2,500.0	2,500.0	2,497.1	2,497.1	4.4	4.4	90.26	-0.2	40.1	40.2	33.3	6.90	5.823 CC, ES		
2,600.0	2,600.0	2,595.8	2,595.8	4.5	4.5	35.13	0.2	41.7	40.3	33.3	6.96	5.786 SF		
2,700.0	2,699.8	2,694.4	2,694.3	4.5	4.5	37.52	1.4	46.6	40.9	33.9	7.03	5.822		
2,800.0	2,799.5	2,793.0	2,792.5	4.6	4.6	41.30	3.3	54.7	42.3	35.1	7.11	5.944		
2,900.0	2,898.7	2,891.6	2,890.4	4.7	4.6	46.14	6.0	66.1	44.4	37.2	7.20	6.166		
3,000.0	2,997.7	2,990.0	2,987.6	4.8	4.7	50.09	9.5	80.8	48.7	41.4	7.31	6.669		
3,100.0	3,096.8	3,089.7	3,085.8	4.8	4.7	52.26	13.6	97.6	55.0	47.6	7.40	7.428		
3,200.0	3,195.8	3,189.4	3,184.0	4.9	4.8	53.99	17.6	114.5	61.3	53.8	7.50	8.179		
3,300.0	3,294.8	3,289.2	3,282.3	5.0	4.8	55.39	21.6	131.3	67.7	60.1	7.59	8.917		
3,400.0	3,393.8	3,389.0	3,380.6	5.1	4.9	56.55	25.7	148.2	74.1	66.4	7.68	9.641		
3,500.0	3,492.9	3,488.8	3,478.8	5.2	5.0	57.52	29.7	165.0	80.5	72.7	7.78	10.346		
3,600.0	3,591.9	3,588.6	3,577.1	5.2	5.1	58.35	33.7	181.9	86.9	79.1	7.88	11.033		
3,700.0	3,690.9	3,688.4	3,675.4	5.3	5.1	59.07	37.7	198.7	93.4	85.4	7.98	11.699		
3,800.0	3,789.9	3,788.1	3,773.6	5.4	5.2	59.69	41.8	215.6	99.9	91.8	8.09	12.344		
3,900.0	3,889.0	3,887.9	3,871.9	5.5	5.3	60.24	45.8	232.4	106.4	98.2	8.20	12.967		
4,000.0	3,988.0	3,987.7	3,970.2	5.6	5.4	60.72	49.8	249.3	112.8	104.5	8.32	13.567		
4,100.0	4,087.0	4,087.5	4,068.4	5.7	5.5	61.16	53.9	266.1	119.3	110.9	8.44	14.143		
4,200.0	4,186.0	4,187.3	4,166.7	5.8	5.6	61.54	57.9	283.0	125.8	117.3	8.56	14.695		
4,300.0	4,285.1	4,287.1	4,265.0	5.9	5.7	61.89	61.9	299.8	132.4	123.7	8.69	15.224		
4,400.0	4,384.1	4,386.9	4,363.2	6.0	5.8	62.21	66.0	316.7	138.9	130.0	8.83	15.728		
4,500.0	4,483.1	4,486.6	4,461.5	6.1	5.9	62.50	70.0	333.6	145.4	136.4	8.97	16.209		
4,600.0	4,582.2	4,586.4	4,559.8	6.2	6.0	62.76	74.0	350.4	151.9	142.8	9.11	16.666		
4,700.0	4,681.2	4,686.2	4,658.1	6.3	6.1	63.00	78.0	367.3	158.4	149.2	9.26	17.101		
4,800.0	4,780.2	4,786.0	4,756.3	6.4	6.2	63.22	82.1	384.1	165.0	155.5	9.42	17.512		
4,900.0	4,879.2	4,885.8	4,854.6	6.5	6.3	63.43	86.1	401.0	171.5	161.9	9.58	17.901		
5,000.0	4,978.3	4,985.6	4,952.9	6.6	6.4	63.62	90.1	417.8	178.0	168.3	9.74	18.269		
5,100.0	5,077.3	5,085.3	5,051.1	6.7	6.5	63.79	94.2	434.7	184.6	174.6	9.91	18.615		
5,200.0	5,176.3	5,185.1	5,149.4	6.9	6.6	63.96	98.2	451.5	191.1	181.0	10.09	18.942		
5,300.0	5,275.3	5,284.9	5,247.7	7.0	6.7	64.11	102.2	468.4	197.6	187.4	10.27	19.248		
5,400.0	5,374.4	5,384.7	5,345.9	7.1	6.8	64.26	106.3	485.2	204.2	193.7	10.45	19.536		
5,500.0	5,473.4	5,484.5	5,444.2	7.2	6.9	64.39	110.3	502.1	210.7	200.1	10.64	19.806		
5,600.0	5,572.4	5,584.3	5,542.5	7.3	7.0	64.52	114.3	518.9	217.2	206.4	10.83	20.058		
5,700.0	5,671.5	5,684.1	5,640.7	7.4	7.2	64.64	118.3	535.8	223.8	212.8	11.03	20.293		
5,800.0	5,770.5	5,783.8	5,739.0	7.5	7.3	64.75	122.4	552.6	230.3	219.1	11.23	20.513		
5,900.0	5,869.5	5,883.6	5,837.3	7.6	7.4	64.86	126.4	569.5	236.9	225.4	11.43	20.717		
6,000.0	5,968.5	5,983.4	5,935.6	7.8	7.5	64.96	130.4	586.3	243.4	231.8	11.64	20.906		
6,022.2	5,990.5	6,005.5	5,957.3	7.8	7.6	64.98	131.3	590.1	244.9	233.2	11.69	20.947		
6,100.0	6,067.6	6,083.2	6,033.8	7.9	7.7	64.99	134.5	603.2	250.2	238.3	11.85	21.106		
6,200.0	6,166.9	6,182.9	6,132.0	8.0	7.8	64.70	138.5	620.0	257.7	245.6	12.06	21.369		
6,300.0	6,266.4	6,282.5	6,230.1	8.1	7.9	64.10	142.5	636.8	265.9	253.7	12.26	21.694		
6,400.0	6,366.1	6,382.0	6,328.1	8.2	8.0	63.22	146.5	653.6	275.0	262.5	12.45	22.080		
6,500.0	6,465.9	6,481.3	6,425.9	8.3	8.2	62.10	150.5	670.4	285.0	272.3	12.65	22.526		
6,600.0	6,565.8	6,580.4	6,523.5	8.4	8.3	60.77	154.5	687.2	295.9	283.0	12.84	23.042		
6,700.0	6,665.7	6,679.4	6,620.9	8.6	8.4	59.28	158.5	703.9	307.8	294.8	13.03	23.620		
6,800.0	6,765.7	6,778.0	6,718.1	8.7	8.6	57.65	162.5	720.5	321.0	307.7	13.24	24.245		
6,822.2	6,787.9	6,799.9	6,739.6	8.7	8.6	113.24	163.4	724.2	324.0	310.8	13.28	24.394		
6,900.0	6,865.7	6,876.5	6,815.1	8.8	8.7	111.86	166.5	737.2	335.0	321.6	13.44	24.936		
7,000.0	6,965.7	6,975.0	6,912.1	8.9	8.8	110.23	170.5	753.8	349.4	335.8	13.64	25.625		
7,100.0	7,065.7	7,073.5	7,009.1	9.0	9.0	108.72	174.5	770.4	364.1	350.2	13.84	26.305		
7,200.0	7,165.7	7,172.0	7,106.1	9.1	9.1	107.32	178.4	787.1	378.9	364.9	14.05	26.978		
7,300.0	7,265.7	7,270.5	7,203.0	9.2	9.2	106.04	182.4	803.7	394.0	379.8	14.25	27.641		
7,400.0	7,365.7	7,368.9	7,300.0	9.3	9.4	104.84	186.4	820.3	409.3	394.8	14.46	28.294		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #5H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB-31 @ 3195.9usft (N 894)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	MD Reference:	KB-31 @ 3195.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #5H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2731 PROJECT - *ZIA HILLS UNIT 2731 WC #7H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 10964-MWD+IFR1+MS													Offset Well Error:	3.0 usft
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 Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
7,500.0	7,465.7	7,467.4	7,397.0	9.4	9.5	103.74	190.4	837.0	424.7	410.0	14.68	28.938		
7,600.0	7,565.7	7,565.9	7,494.0	9.6	9.7	102.71	194.3	853.6	440.3	425.4	14.89	29.572		
7,700.0	7,665.7	7,664.4	7,591.0	9.7	9.8	101.75	198.3	870.2	455.9	440.8	15.10	30.196		
7,800.0	7,765.7	7,762.9	7,688.0	9.8	9.9	100.85	202.3	886.9	471.8	456.4	15.31	30.809		
7,900.0	7,865.7	7,861.3	7,785.0	9.9	10.1	100.01	206.3	903.5	487.7	472.2	15.52	31.413		
8,000.0	7,965.7	7,959.8	7,881.9	10.0	10.2	99.23	210.3	920.1	503.7	488.0	15.74	32.006		
8,100.0	8,065.7	8,058.3	7,978.9	10.1	10.4	98.49	214.2	936.8	519.8	503.8	15.95	32.588		
8,200.0	8,165.7	8,156.8	8,075.9	10.2	10.5	97.80	218.2	953.4	536.0	519.8	16.16	33.161		
8,300.0	8,265.7	8,255.3	8,172.9	10.4	10.7	97.15	222.2	970.0	552.2	535.8	16.38	33.723		
8,400.0	8,365.7	8,353.7	8,269.9	10.5	10.9	96.53	226.2	986.7	568.5	551.9	16.59	34.274		
8,500.0	8,465.7	8,452.2	8,366.9	10.6	11.0	95.95	230.1	1,003.3	584.9	568.1	16.80	34.816		
8,600.0	8,565.7	8,550.7	8,463.8	10.7	11.2	95.41	234.1	1,019.9	601.3	584.3	17.01	35.348		
8,700.0	8,665.7	8,649.2	8,560.8	10.8	11.3	94.89	238.1	1,036.5	617.8	600.6	17.22	35.869		
8,800.0	8,765.7	8,747.7	8,657.8	10.9	11.5	94.39	242.1	1,053.2	634.4	616.9	17.44	36.381		
8,900.0	8,865.7	8,846.1	8,754.8	11.1	11.7	93.93	246.1	1,069.8	650.9	633.3	17.65	36.884		
9,000.0	8,965.7	8,944.6	8,851.8	11.2	11.8	93.48	250.0	1,086.4	667.6	649.7	17.86	37.377		
9,100.0	9,065.7	9,043.1	8,948.8	11.3	12.0	93.06	254.0	1,103.1	684.2	666.1	18.07	37.860		
9,200.0	9,165.7	9,141.6	9,045.8	11.4	12.2	92.66	258.0	1,119.7	700.9	682.6	18.28	38.334		
9,300.0	9,265.7	9,240.1	9,142.7	11.5	12.3	92.27	262.0	1,136.3	717.6	699.1	18.50	38.799		
9,400.0	9,365.7	9,338.6	9,239.7	11.6	12.5	91.90	265.9	1,153.0	734.4	715.6	18.71	39.256		
9,500.0	9,465.7	9,437.0	9,336.7	11.8	12.7	91.55	269.9	1,169.6	751.1	732.2	18.92	39.703		
9,600.0	9,565.7	9,536.7	9,434.9	11.9	12.9	91.22	273.9	1,186.4	767.9	748.8	19.13	40.151		
9,700.0	9,665.7	9,650.3	9,546.9	12.0	13.1	90.87	278.2	1,204.4	783.7	764.4	19.29	40.630		
9,800.0	9,765.7	9,764.6	9,660.0	12.1	13.3	90.58	282.0	1,220.2	797.5	778.0	19.46	40.985		
9,900.0	9,865.7	9,879.4	9,774.1	12.2	13.4	90.33	285.3	1,233.9	809.4	789.8	19.64	41.214		
10,000.0	9,965.7	9,994.9	9,888.9	12.4	13.6	90.14	288.1	1,245.5	819.4	799.6	19.83	41.318		
10,100.0	10,065.7	10,110.7	10,004.3	12.5	13.7	89.98	290.3	1,254.8	827.5	807.4	20.04	41.294		
10,200.0	10,165.7	10,226.9	10,120.3	12.6	13.8	89.86	292.0	1,261.9	833.6	813.3	20.26	41.144		
10,300.0	10,265.7	10,343.3	10,236.6	12.7	13.9	89.79	293.1	1,266.7	837.7	817.2	20.50	40.872		
10,400.0	10,365.7	10,459.9	10,353.2	12.8	14.0	89.75	293.7	1,269.2	839.8	819.1	20.75	40.475		
10,500.0	10,465.7	10,569.6	10,462.8	13.0	14.1	89.74	293.8	1,269.6	840.2	819.2	20.94	40.127		
10,600.0	10,565.7	10,669.6	10,562.8	13.1	14.2	89.74	293.8	1,269.6	840.2	819.1	21.04	39.937		
10,700.0	10,665.7	10,769.6	10,662.8	13.2	14.3	89.74	293.8	1,269.6	840.2	819.0	21.14	39.749		
10,800.0	10,765.7	10,869.6	10,762.8	13.3	14.3	89.74	293.8	1,269.6	840.2	818.9	21.24	39.562		
10,814.8	10,780.6	10,884.4	10,777.7	13.3	14.4	89.74	293.8	1,269.6	840.2	818.9	21.25	39.535		
10,900.0	10,865.7	10,969.6	10,862.8	13.4	14.4	89.74	293.8	1,269.6	840.2	818.8	21.32	39.400		
10,921.8	10,887.5	10,991.3	10,884.5	13.4	14.4	89.79	293.1	1,269.6	840.2	818.8	21.33	39.397		
10,925.0	10,890.7	10,994.5	10,887.7	13.4	14.4	-89.88	292.9	1,269.6	840.2	818.8	21.32	39.398		
10,950.0	10,915.7	11,019.3	10,912.4	13.4	14.4	-89.79	290.6	1,269.6	840.2	818.8	21.32	39.399		
10,975.0	10,940.6	11,044.1	10,937.0	13.5	14.5	-89.69	287.2	1,269.6	840.2	818.8	21.33	39.396		
11,000.0	10,965.4	11,068.8	10,961.2	13.5	14.5	-89.60	282.4	1,269.6	840.2	818.8	21.33	39.389		
11,025.0	10,989.9	11,093.4	10,985.1	13.5	14.5	-89.50	276.5	1,269.6	840.2	818.8	21.34	39.377		
11,050.0	11,014.2	11,118.0	11,008.6	13.6	14.6	-89.41	269.3	1,269.7	840.2	818.8	21.35	39.360		
11,075.0	11,038.1	11,142.5	11,031.6	13.6	14.6	-89.32	261.0	1,269.7	840.2	818.9	21.36	39.338		
11,100.0	11,061.6	11,166.9	11,054.1	13.6	14.6	-89.23	251.5	1,269.8	840.2	818.9	21.37	39.310		
11,125.0	11,084.6	11,191.2	11,076.0	13.7	14.7	-89.15	240.9	1,269.8	840.2	818.8	21.39	39.275		
11,150.0	11,107.1	11,215.5	11,097.3	13.7	14.7	-89.06	229.2	1,269.9	840.3	818.8	21.42	39.234		
11,175.0	11,129.0	11,239.8	11,118.0	13.7	14.7	-88.98	216.5	1,270.0	840.3	818.8	21.44	39.185		
11,200.0	11,150.2	11,264.0	11,137.9	13.8	14.8	-88.91	202.8	1,270.0	840.3	818.8	21.48	39.128		
11,225.0	11,170.7	11,288.1	11,157.1	13.8	14.8	-88.83	188.1	1,270.1	840.3	818.8	21.51	39.063		
11,250.0	11,190.5	11,312.2	11,175.4	13.9	14.8	-88.76	172.6	1,270.2	840.3	818.8	21.55	38.989		
11,275.0	11,209.4	11,336.2	11,193.0	13.9	14.9	-88.69	156.1	1,270.3	840.4	818.8	21.60	38.906		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #5H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB-31 @ 3195.9usft (N 894)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	MD Reference:	KB-31 @ 3195.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #5H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2731 PROJECT - *ZIA HILLS UNIT 2731 WC #7H - OWB - PWP0													Offset Site Error:
Survey Program: 0-Standard Keeper 104, 10964-MWD+IFR1+MS													Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	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
11,300.0	11,227.4	11,360.2	11,209.6	13.9	14.9	-88.62	138.8	1,270.4	840.4	818.7	21.65	38.814	
11,325.0	11,244.5	11,384.2	11,225.3	14.0	14.9	-88.56	120.8	1,270.5	840.4	818.7	21.71	38.712	
11,350.0	11,260.6	11,408.1	11,240.1	14.0	15.0	-88.51	102.0	1,270.6	840.4	818.7	21.77	38.600	
11,375.0	11,275.7	11,432.0	11,253.9	14.0	15.0	-88.45	82.5	1,270.7	840.5	818.6	21.84	38.479	
11,400.0	11,289.7	11,455.8	11,266.7	14.1	15.0	-88.40	62.4	1,270.8	840.5	818.6	21.92	38.348	
11,425.0	11,302.6	11,479.6	11,278.4	14.1	15.0	-88.36	41.7	1,270.9	840.5	818.5	22.00	38.208	
11,450.0	11,314.4	11,503.4	11,289.1	14.1	15.1	-88.32	20.5	1,271.0	840.5	818.4	22.08	38.058	
11,475.0	11,325.0	11,527.1	11,298.8	14.1	15.1	-88.28	-1.3	1,271.2	840.5	818.3	22.18	37.900	
11,500.0	11,334.4	11,550.9	11,307.3	14.2	15.1	-88.25	-23.4	1,271.3	840.5	818.3	22.28	37.734	
11,525.0	11,342.6	11,575.0	11,314.8	14.2	15.1	-88.22	-46.3	1,271.4	840.6	818.2	22.38	37.564	
11,525.0	11,342.6	11,575.0	11,314.8	14.2	15.1	-88.22	-46.3	1,271.4	840.6	818.2	22.38	37.563	
11,550.0	11,349.5	11,598.3	11,320.9	14.2	15.1	-88.20	-68.8	1,271.5	840.6	818.1	22.49	37.379	
11,575.0	11,355.2	11,621.9	11,326.1	14.2	15.2	-88.18	-91.9	1,271.7	840.6	818.0	22.60	37.192	
11,600.0	11,359.6	11,645.6	11,330.0	14.3	15.2	-88.16	-115.2	1,271.8	840.6	817.9	22.72	36.999	
11,625.0	11,362.7	11,669.3	11,332.8	14.3	15.2	-88.16	-138.7	1,271.9	840.6	817.7	22.84	36.801	
11,650.0	11,364.5	11,692.9	11,334.5	14.3	15.2	-88.15	-162.3	1,272.0	840.6	817.6	22.97	36.600	
11,671.8	11,365.0	11,713.5	11,335.0	14.3	15.2	-88.15	-182.9	1,272.2	840.6	817.5	23.08	36.423	
11,685.6	11,365.0	11,727.4	11,335.0	14.3	15.2	-88.15	-196.7	1,272.2	840.6	817.4	23.15	36.306	
11,700.0	11,365.0	11,741.7	11,335.0	14.3	15.2	-88.15	-211.1	1,272.3	840.6	817.4	23.23	36.185	
11,800.0	11,365.0	11,841.7	11,335.0	14.3	15.3	-88.15	-311.1	1,272.9	840.6	816.7	23.83	35.269	
11,900.0	11,365.0	11,941.7	11,335.0	14.4	15.3	-88.15	-411.1	1,273.4	840.6	816.0	24.53	34.264	
12,000.0	11,365.0	12,041.7	11,335.0	14.5	15.4	-88.15	-511.1	1,273.9	840.6	815.3	25.30	33.218	
12,100.0	11,365.0	12,141.7	11,335.0	14.5	15.4	-88.15	-611.1	1,274.5	840.6	814.4	26.14	32.152	
12,200.0	11,365.0	12,241.7	11,335.0	14.7	15.6	-88.15	-711.1	1,275.0	840.6	813.5	27.04	31.083	
12,300.0	11,365.0	12,341.7	11,335.0	14.8	15.7	-88.15	-811.1	1,275.6	840.6	812.6	28.00	30.025	
12,400.0	11,365.0	12,441.7	11,335.0	15.0	16.0	-88.15	-911.1	1,276.1	840.6	811.6	29.00	28.988	
12,500.0	11,365.0	12,541.7	11,335.0	15.2	16.3	-88.15	-1,011.1	1,276.7	840.6	810.5	30.04	27.979	
12,600.0	11,365.0	12,641.7	11,335.0	15.5	16.7	-88.15	-1,111.1	1,277.2	840.6	809.4	31.13	27.003	
12,700.0	11,365.0	12,741.7	11,335.0	15.8	17.2	-88.15	-1,211.1	1,277.8	840.6	808.3	32.25	26.065	
12,800.0	11,365.0	12,841.7	11,335.0	16.3	17.7	-88.15	-1,311.1	1,278.3	840.6	807.2	33.40	25.166	
12,900.0	11,365.0	12,941.7	11,335.0	16.8	18.3	-88.15	-1,411.1	1,278.9	840.6	806.0	34.58	24.306	
13,000.0	11,365.0	13,041.7	11,335.0	17.3	18.8	-88.15	-1,511.1	1,279.4	840.6	804.8	35.79	23.486	
13,100.0	11,365.0	13,141.7	11,335.0	17.9	19.4	-88.15	-1,611.1	1,280.0	840.6	803.5	37.02	22.706	
13,200.0	11,365.0	13,241.7	11,335.0	18.5	20.0	-88.15	-1,711.1	1,280.5	840.6	802.3	38.27	21.963	
13,300.0	11,365.0	13,341.7	11,335.0	19.1	20.6	-88.15	-1,811.1	1,281.0	840.6	801.0	39.54	21.257	
13,400.0	11,365.0	13,441.7	11,335.0	19.8	21.2	-88.15	-1,911.1	1,281.6	840.6	799.7	40.83	20.586	
13,500.0	11,365.0	13,541.7	11,335.0	20.4	21.8	-88.15	-2,011.1	1,282.1	840.6	798.4	42.14	19.949	
13,600.0	11,365.0	13,641.7	11,335.0	21.1	22.5	-88.15	-2,111.1	1,282.7	840.6	797.1	43.45	19.344	
13,700.0	11,365.0	13,741.7	11,335.0	21.8	23.1	-88.15	-2,211.1	1,283.2	840.6	795.8	44.78	18.769	
13,800.0	11,365.0	13,841.7	11,335.0	22.5	23.7	-88.15	-2,311.1	1,283.8	840.6	794.4	46.13	18.222	
13,900.0	11,365.0	13,941.7	11,335.0	23.1	24.4	-88.15	-2,411.1	1,284.3	840.6	793.1	47.48	17.702	
14,000.0	11,365.0	14,041.7	11,335.0	23.8	25.1	-88.15	-2,511.1	1,284.9	840.6	791.7	48.85	17.208	
14,100.0	11,365.0	14,141.7	11,335.0	24.5	25.7	-88.15	-2,611.1	1,285.4	840.6	790.3	50.22	16.737	
14,200.0	11,365.0	14,241.7	11,335.0	25.2	26.4	-88.15	-2,711.1	1,286.0	840.6	789.0	51.60	16.289	
14,300.0	11,365.0	14,341.7	11,335.0	25.9	27.1	-88.15	-2,811.0	1,286.5	840.6	787.6	52.99	15.861	
14,400.0	11,365.0	14,441.7	11,335.0	26.7	27.8	-88.15	-2,911.0	1,287.1	840.6	786.2	54.39	15.454	
14,500.0	11,365.0	14,541.7	11,335.0	27.4	28.5	-88.15	-3,011.0	1,287.6	840.6	784.8	55.80	15.065	
14,600.0	11,365.0	14,641.7	11,335.0	28.1	29.1	-88.15	-3,111.0	1,288.1	840.6	783.3	57.21	14.693	
14,700.0	11,365.0	14,741.7	11,335.0	28.8	29.8	-88.15	-3,211.0	1,288.7	840.5	781.9	58.62	14.338	
14,800.0	11,365.0	14,841.7	11,335.0	29.5	30.5	-88.15	-3,311.0	1,289.2	840.5	780.5	60.04	13.999	
14,900.0	11,365.0	14,941.7	11,335.0	30.2	31.2	-88.15	-3,411.0	1,289.8	840.5	779.1	61.47	13.674	
15,000.0	11,365.0	15,041.7	11,335.0	31.0	31.9	-88.15	-3,511.0	1,290.3	840.5	777.6	62.90	13.363	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #5H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB-31 @ 3195.9usft (N 894)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	MD Reference:	KB-31 @ 3195.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #5H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2731 PROJECT - *ZIA HILLS UNIT 2731 WC #7H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 10964-MWD+IFR1+MS													Offset Well Error:	3.0 usft
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 Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)						
15,100.0	11,365.0	15,141.7	11,335.0	31.7	32.7	-88.15	-3,611.0	1,290.9	840.5	776.2	64.34	13.065		
15,200.0	11,365.0	15,241.7	11,335.0	32.4	33.4	-88.15	-3,711.0	1,291.4	840.5	774.8	65.78	12.779		
15,300.0	11,365.0	15,341.7	11,335.0	33.2	34.1	-88.15	-3,811.0	1,292.0	840.5	773.3	67.22	12.504		
15,400.0	11,365.0	15,441.7	11,335.0	33.9	34.8	-88.15	-3,911.0	1,292.5	840.5	771.9	68.67	12.241		
15,500.0	11,365.0	15,541.7	11,335.0	34.6	35.5	-88.15	-4,011.0	1,293.1	840.5	770.4	70.12	11.987		
15,600.0	11,365.0	15,641.7	11,335.0	35.4	36.2	-88.15	-4,111.0	1,293.6	840.5	769.0	71.57	11.744		
15,700.0	11,365.0	15,741.7	11,335.0	36.1	36.9	-88.15	-4,211.0	1,294.2	840.5	767.5	73.03	11.510		
15,800.0	11,365.0	15,841.7	11,335.0	36.8	37.7	-88.15	-4,311.0	1,294.7	840.5	766.0	74.49	11.284		
15,900.0	11,365.0	15,941.7	11,335.0	37.6	38.4	-88.15	-4,411.0	1,295.2	840.5	764.6	75.95	11.067		
16,000.0	11,365.0	16,041.7	11,335.0	38.3	39.1	-88.15	-4,511.0	1,295.8	840.5	763.1	77.42	10.857		
16,100.0	11,365.0	16,141.7	11,335.0	39.1	39.8	-88.15	-4,611.0	1,296.3	840.5	761.7	78.88	10.656		
16,200.0	11,365.0	16,241.7	11,335.0	39.8	40.6	-88.15	-4,711.0	1,296.9	840.5	760.2	80.35	10.461		
16,300.0	11,365.0	16,341.7	11,335.0	40.5	41.3	-88.15	-4,811.0	1,297.4	840.5	758.7	81.82	10.273		
16,400.0	11,365.0	16,441.7	11,335.0	41.3	42.0	-88.15	-4,911.0	1,298.0	840.5	757.2	83.30	10.091		
16,500.0	11,365.0	16,541.7	11,335.0	42.0	42.8	-88.15	-5,011.0	1,298.5	840.5	755.8	84.77	9.915		
16,600.0	11,365.0	16,641.7	11,335.0	42.8	43.5	-88.15	-5,111.0	1,299.1	840.5	754.3	86.25	9.745		
16,700.0	11,365.0	16,741.7	11,335.0	43.5	44.2	-88.15	-5,211.0	1,299.6	840.5	752.8	87.73	9.581		
16,800.0	11,365.0	16,841.7	11,335.0	44.3	45.0	-88.15	-5,311.0	1,300.2	840.5	751.3	89.21	9.422		
16,900.0	11,365.0	16,941.7	11,335.0	45.0	45.7	-88.15	-5,411.0	1,300.7	840.5	749.8	90.69	9.268		
17,000.0	11,365.0	17,041.7	11,335.0	45.8	46.4	-88.15	-5,511.0	1,301.3	840.5	748.4	92.17	9.119		
17,100.0	11,365.0	17,141.7	11,335.0	46.5	47.2	-88.15	-5,611.0	1,301.8	840.5	746.9	93.66	8.974		
17,200.0	11,365.0	17,241.7	11,335.0	47.2	47.9	-88.15	-5,711.0	1,302.3	840.5	745.4	95.14	8.834		
17,300.0	11,365.0	17,341.7	11,335.0	48.0	48.6	-88.15	-5,811.0	1,302.9	840.5	743.9	96.63	8.698		
17,400.0	11,365.0	17,441.7	11,335.0	48.7	49.4	-88.15	-5,911.0	1,303.4	840.5	742.4	98.12	8.566		
17,500.0	11,365.0	17,541.7	11,335.0	49.5	50.1	-88.15	-6,011.0	1,304.0	840.5	740.9	99.61	8.438		
17,600.0	11,365.0	17,641.7	11,335.0	50.2	50.9	-88.15	-6,111.0	1,304.5	840.5	739.4	101.10	8.314		
17,700.0	11,365.0	17,741.7	11,335.0	51.0	51.6	-88.15	-6,211.0	1,305.1	840.5	737.9	102.59	8.193		
17,800.0	11,365.0	17,841.7	11,335.0	51.7	52.3	-88.15	-6,311.0	1,305.6	840.5	736.4	104.08	8.075		
17,900.0	11,365.0	17,941.7	11,335.0	52.5	53.1	-88.15	-6,411.0	1,306.2	840.5	734.9	105.58	7.961		
18,000.0	11,365.0	18,041.7	11,335.0	53.2	53.8	-88.15	-6,511.0	1,306.7	840.5	733.4	107.07	7.850		
18,100.0	11,365.0	18,141.7	11,335.0	54.0	54.6	-88.15	-6,611.0	1,307.3	840.5	731.9	108.57	7.742		
18,200.0	11,365.0	18,241.7	11,335.0	54.8	55.3	-88.15	-6,711.0	1,307.8	840.5	730.4	110.06	7.637		
18,300.0	11,365.0	18,341.7	11,335.0	55.5	56.1	-88.15	-6,811.0	1,308.4	840.5	729.0	111.56	7.534		
18,314.0	11,365.0	18,355.7	11,335.0	55.6	56.2	-88.15	-6,825.0	1,308.4	840.5	728.7	111.77	7.520		
18,400.0	11,365.0	18,358.8	11,335.0	56.3	56.2	-88.15	-6,828.1	1,308.4	844.6	732.5	112.09	7.535		
18,467.3	11,365.0	18,358.8	11,335.0	56.8	56.2	-88.15	-6,828.1	1,308.4	853.8	742.2	111.63	7.649		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #5H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB-31 @ 3195.9usft (N 894)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	MD Reference:	KB-31 @ 3195.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #5H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2731 PROJECT - *ZIA HILLS UNIT 2731 WC #8H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 11191-MWD+IFR+MS					Rule Assigned:				Offset Well Error:	3.0 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	
0.0	0.0	0.0	0.0	3.0	3.0	90.06	-0.1	60.1	60.2					
100.0	100.0	97.1	97.1	3.0	3.0	90.06	-0.1	60.1	60.2	54.1	6.00	10.025		
200.0	200.0	197.1	197.1	3.0	3.0	90.06	-0.1	60.1	60.2	54.1	6.00	10.020		
300.0	300.0	297.1	297.1	3.0	3.0	90.06	-0.1	60.1	60.2	54.1	6.01	10.010		
400.0	400.0	397.1	397.1	3.0	3.0	90.06	-0.1	60.1	60.2	54.1	6.02	9.995		
500.0	500.0	497.1	497.1	3.1	3.1	90.06	-0.1	60.1	60.2	54.1	6.03	9.974		
600.0	600.0	597.1	597.1	3.1	3.1	90.06	-0.1	60.1	60.2	54.1	6.05	9.949		
700.0	700.0	697.1	697.1	3.1	3.1	90.06	-0.1	60.1	60.2	54.1	6.06	9.918		
800.0	800.0	797.1	797.1	3.2	3.2	90.06	-0.1	60.1	60.2	54.1	6.09	9.882		
900.0	900.0	897.1	897.1	3.2	3.2	90.06	-0.1	60.1	60.2	54.0	6.11	9.842		
1,000.0	1,000.0	997.1	997.1	3.2	3.2	90.06	-0.1	60.1	60.2	54.0	6.14	9.797		
1,100.0	1,100.0	1,097.1	1,097.1	3.3	3.3	90.06	-0.1	60.1	60.2	54.0	6.17	9.747		
1,200.0	1,200.0	1,197.1	1,197.1	3.4	3.4	90.06	-0.1	60.1	60.2	53.9	6.21	9.694		
1,300.0	1,300.0	1,297.1	1,297.1	3.4	3.4	90.06	-0.1	60.1	60.2	53.9	6.24	9.636		
1,400.0	1,400.0	1,397.1	1,397.1	3.5	3.5	90.06	-0.1	60.1	60.2	53.9	6.28	9.575		
1,500.0	1,500.0	1,497.1	1,497.1	3.5	3.5	90.06	-0.1	60.1	60.2	53.8	6.32	9.510		
1,600.0	1,600.0	1,597.1	1,597.1	3.6	3.6	90.06	-0.1	60.1	60.2	53.8	6.37	9.442		
1,700.0	1,700.0	1,697.1	1,697.1	3.7	3.7	90.06	-0.1	60.1	60.2	53.7	6.42	9.371		
1,800.0	1,800.0	1,797.1	1,797.1	3.8	3.8	90.06	-0.1	60.1	60.2	53.7	6.47	9.297		
1,900.0	1,900.0	1,897.1	1,897.1	3.9	3.9	90.06	-0.1	60.1	60.2	53.6	6.52	9.221		
2,000.0	2,000.0	1,997.1	1,997.1	3.9	3.9	90.06	-0.1	60.1	60.2	53.6	6.58	9.142 CC, ES, SF		
2,100.0	2,100.0	2,095.1	2,095.1	4.0	4.0	89.84	0.2	61.7	61.7	55.1	6.64	9.304		
2,200.0	2,200.0	2,192.8	2,192.7	4.1	4.0	89.21	0.9	66.6	66.7	60.0	6.70	9.963		
2,300.0	2,300.0	2,290.1	2,289.6	4.2	4.1	88.36	2.1	74.7	75.1	68.3	6.76	11.101		
2,400.0	2,400.0	2,386.7	2,385.5	4.3	4.1	87.44	3.8	85.9	86.8	79.9	6.83	12.697		
2,500.0	2,500.0	2,482.4	2,480.1	4.4	4.2	86.57	6.0	100.2	101.8	94.9	6.91	14.729		
2,600.0	2,600.0	2,577.3	2,573.4	4.5	4.2	30.07	8.6	117.5	118.7	111.7	6.99	16.963		
2,700.0	2,699.8	2,675.0	2,669.0	4.5	4.3	30.30	11.7	137.5	134.8	127.7	7.09	19.022		
2,800.0	2,799.5	2,774.1	2,765.9	4.6	4.3	31.16	14.7	157.8	148.2	141.0	7.18	20.629		
2,900.0	2,898.7	2,873.5	2,863.1	4.7	4.4	32.55	17.8	178.3	158.6	151.3	7.27	21.811		
3,000.0	2,997.7	2,973.0	2,960.4	4.8	4.5	34.20	20.9	198.7	167.7	160.3	7.36	22.780		
3,100.0	3,096.8	3,072.4	3,057.7	4.8	4.5	35.69	24.0	219.2	176.9	169.4	7.45	23.725		
3,200.0	3,195.8	3,171.9	3,155.0	4.9	4.6	37.02	27.1	239.6	186.2	178.6	7.55	24.644		
3,300.0	3,294.8	3,271.4	3,252.3	5.0	4.7	38.23	30.2	260.1	195.6	187.9	7.66	25.533		
3,400.0	3,393.8	3,370.9	3,349.6	5.1	4.8	39.32	33.3	280.5	205.1	197.3	7.77	26.390		
3,500.0	3,492.9	3,470.3	3,446.9	5.2	4.9	40.32	36.4	301.0	214.6	206.7	7.89	27.215		
3,600.0	3,591.9	3,569.8	3,544.2	5.2	5.0	41.24	39.5	321.4	224.2	216.2	8.01	28.006		
3,700.0	3,690.9	3,669.3	3,641.5	5.3	5.0	42.07	42.6	341.9	233.9	225.7	8.13	28.762		
3,800.0	3,789.9	3,768.8	3,738.8	5.4	5.1	42.85	45.7	362.3	243.6	235.3	8.26	29.483		
3,900.0	3,889.0	3,868.2	3,836.1	5.5	5.2	43.56	48.8	382.7	253.3	244.9	8.40	30.169		
4,000.0	3,988.0	3,967.7	3,933.5	5.6	5.3	44.22	51.9	403.2	263.1	254.6	8.54	30.819		
4,100.0	4,087.0	4,067.2	4,030.8	5.7	5.4	44.83	55.0	423.6	272.9	264.2	8.68	31.436		
4,200.0	4,186.0	4,166.7	4,128.1	5.8	5.6	45.40	58.1	444.1	282.8	273.9	8.83	32.018		
4,300.0	4,285.1	4,266.1	4,225.4	5.9	5.7	45.93	61.2	464.5	292.6	283.6	8.99	32.566		
4,400.0	4,384.1	4,365.6	4,322.7	6.0	5.8	46.43	64.3	485.0	302.5	293.4	9.14	33.083		
4,500.0	4,483.1	4,465.1	4,420.0	6.1	5.9	46.90	67.4	505.4	312.4	303.1	9.31	33.567		
4,600.0	4,582.2	4,564.6	4,517.3	6.2	6.0	47.33	70.5	525.9	322.4	312.9	9.48	34.021		
4,700.0	4,681.2	4,664.1	4,614.6	6.3	6.1	47.74	73.6	546.3	332.3	322.7	9.65	34.446		
4,800.0	4,780.2	4,763.5	4,711.9	6.4	6.3	48.13	76.7	566.8	342.3	332.5	9.82	34.841		
4,900.0	4,879.2	4,863.0	4,809.2	6.5	6.4	48.49	79.8	587.2	352.3	342.3	10.00	35.210		
5,000.0	4,978.3	4,962.5	4,906.5	6.6	6.5	48.84	82.9	607.7	362.3	352.1	10.19	35.552		
5,100.0	5,077.3	5,062.0	5,003.8	6.7	6.6	49.17	86.1	628.1	372.3	361.9	10.38	35.870		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #5H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB-31 @ 3195.9usft (N 894)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	MD Reference:	KB-31 @ 3195.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #5H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2731 PROJECT - *ZIA HILLS UNIT 2731 WC #8H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11191-MWD+IFR+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Rule Assigned:		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)		
5,200.0	5,176.3	5,161.4	5,101.1	6.9	6.8	49.48	89.2	648.6	382.3	371.7	10.57	36.163	
5,300.0	5,275.3	5,260.9	5,198.4	7.0	6.9	49.77	92.3	669.0	392.3	381.5	10.77	36.434	
5,400.0	5,374.4	5,360.4	5,295.7	7.1	7.0	50.05	95.4	689.5	402.3	391.4	10.97	36.683	
5,500.0	5,473.4	5,459.9	5,393.0	7.2	7.2	50.31	98.5	709.9	412.4	401.2	11.17	36.912	
5,600.0	5,572.4	5,559.3	5,490.3	7.3	7.3	50.57	101.6	730.4	422.4	411.1	11.38	37.121	
5,700.0	5,671.5	5,658.8	5,587.6	7.4	7.5	50.81	104.7	750.8	432.5	420.9	11.59	37.312	
5,800.0	5,770.5	5,758.3	5,684.9	7.5	7.6	51.04	107.8	771.3	442.6	430.8	11.81	37.485	
5,900.0	5,869.5	5,857.8	5,782.2	7.6	7.8	51.26	110.9	791.7	452.6	440.6	12.03	37.642	
6,000.0	5,968.5	5,957.2	5,879.5	7.8	7.9	51.47	114.0	812.2	462.7	450.5	12.25	37.783	
6,022.2	5,990.5	5,979.3	5,901.1	7.8	7.9	51.51	114.6	816.7	465.0	452.7	12.30	37.812	
6,100.0	6,067.6	6,056.7	5,976.8	7.9	8.1	51.68	117.1	832.6	473.1	460.7	12.47	37.937	
6,200.0	6,166.9	6,156.0	6,073.9	8.0	8.2	51.76	120.1	853.0	484.6	471.9	12.70	38.167	
6,300.0	6,266.4	6,255.2	6,171.0	8.1	8.4	51.68	123.2	873.4	497.1	484.2	12.92	38.473	
6,400.0	6,366.1	6,354.3	6,267.8	8.2	8.5	51.47	126.3	893.8	510.8	497.6	13.15	38.852	
6,500.0	6,465.9	6,453.1	6,364.5	8.3	8.7	51.13	129.4	914.1	525.5	512.1	13.37	39.303	
6,600.0	6,565.8	6,551.7	6,460.9	8.4	8.9	50.69	132.5	934.4	541.3	527.7	13.59	39.836	
6,700.0	6,665.7	6,650.0	6,557.1	8.6	9.0	50.14	135.5	954.6	558.3	544.5	13.81	40.444	
6,800.0	6,765.7	6,748.1	6,653.0	8.7	9.2	49.51	138.6	974.7	576.5	562.5	14.03	41.105	
6,822.2	6,787.9	6,769.7	6,674.2	8.7	9.3	105.33	139.3	979.2	580.7	566.7	14.07	41.269	
6,900.0	6,865.7	6,845.9	6,748.7	8.8	9.4	104.70	141.6	994.8	595.6	581.4	14.22	41.883	
7,000.0	6,965.7	6,943.7	6,844.4	8.9	9.6	103.94	144.7	1,014.9	614.8	600.4	14.41	42.658	
7,100.0	7,065.7	7,041.5	6,940.1	9.0	9.8	103.22	147.7	1,035.1	634.1	619.5	14.61	43.417	
7,200.0	7,165.7	7,139.3	7,035.8	9.1	9.9	102.54	150.8	1,055.2	653.5	638.7	14.80	44.160	
7,300.0	7,265.7	7,237.1	7,131.4	9.2	10.1	101.90	153.8	1,075.3	673.0	658.0	14.99	44.888	
7,400.0	7,365.7	7,335.0	7,227.1	9.3	10.3	101.30	156.9	1,095.4	692.6	677.4	15.19	45.601	
7,500.0	7,465.7	7,432.8	7,322.8	9.4	10.5	100.73	159.9	1,115.5	712.2	696.8	15.38	46.298	
7,600.0	7,565.7	7,530.6	7,418.5	9.6	10.7	100.20	163.0	1,135.6	731.9	716.3	15.58	46.981	
7,700.0	7,665.7	7,628.4	7,514.1	9.7	10.9	99.69	166.0	1,155.7	751.6	735.9	15.77	47.648	
7,800.0	7,765.7	7,726.2	7,609.8	9.8	11.1	99.20	169.1	1,175.8	771.5	755.5	15.97	48.301	
7,900.0	7,865.7	7,824.0	7,705.5	9.9	11.3	98.74	172.1	1,195.9	791.3	775.1	16.17	48.940	
8,000.0	7,965.7	7,921.8	7,801.2	10.0	11.5	98.30	175.2	1,216.0	811.2	794.8	16.37	49.564	
8,100.0	8,065.7	8,019.7	7,896.8	10.1	11.7	97.89	178.2	1,236.1	831.2	814.6	16.57	50.175	
8,200.0	8,165.7	8,117.5	7,992.5	10.2	11.9	97.49	181.3	1,256.2	851.2	834.4	16.76	50.772	
8,300.0	8,265.7	8,215.3	8,088.2	10.4	12.1	97.11	184.3	1,276.3	871.2	854.2	16.96	51.356	
8,400.0	8,365.7	8,313.1	8,183.9	10.5	12.3	96.75	187.4	1,296.4	891.2	874.1	17.16	51.927	
8,500.0	8,465.7	8,410.9	8,279.6	10.6	12.5	96.40	190.4	1,316.6	911.3	894.0	17.36	52.486	
8,600.0	8,565.7	8,508.7	8,375.2	10.7	12.7	96.07	193.5	1,336.7	931.5	913.9	17.56	53.032	
8,700.0	8,665.7	8,606.5	8,470.9	10.8	13.0	95.76	196.5	1,356.8	951.6	933.8	17.77	53.566	
8,800.0	8,765.7	8,704.4	8,566.6	10.9	13.2	95.45	199.6	1,376.9	971.8	953.8	17.97	54.088	
8,900.0	8,865.7	8,802.2	8,662.3	11.1	13.4	95.16	202.6	1,397.0	992.0	973.8	18.17	54.598	

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Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #5H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB-31 @ 3195.9usft (N 894)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	MD Reference:	KB-31 @ 3195.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #5H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2731 PROJECT - STAMPEDE FEDERAL 27 1M - STAMPEDE FEDERAL 27 1M - STAMPEDE FEDERAL 27 1M												Offset Site Error:	0.0 usft
Survey Program: 60-GYD-CT-CMS												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,300.0	11,365.0	11,328.9	11,327.2	19.1	19.9	87.59	-2,733.4	163.5	958.9	923.3	35.55	26.971	
13,400.0	11,365.0	11,330.4	11,328.7	19.8	19.9	87.89	-2,733.5	163.5	863.8	828.0	35.85	24.099	
13,500.0	11,365.0	11,331.8	11,330.2	20.4	19.9	88.20	-2,733.5	163.5	770.0	733.8	36.22	21.257	
13,600.0	11,365.0	11,333.3	11,331.7	21.1	19.9	88.50	-2,733.5	163.5	678.0	641.3	36.73	18.460	
13,700.0	11,365.0	11,334.9	11,333.2	21.8	19.9	88.80	-2,733.5	163.5	588.6	551.1	37.42	15.728	
13,800.0	11,365.0	11,336.4	11,334.7	22.5	19.9	89.11	-2,733.6	163.5	503.1	464.7	38.40	13.104	
13,900.0	11,365.0	11,337.9	11,336.2	23.1	19.9	89.42	-2,733.6	163.5	424.1	384.3	39.77	10.663	
14,000.0	11,365.0	11,339.4	11,337.7	23.8	19.9	89.72	-2,733.6	163.6	355.8	314.2	41.64	8.545	
14,100.0	11,365.0	11,340.9	11,339.2	24.5	19.9	90.03	-2,733.6	163.6	305.5	261.7	43.76	6.980	
14,200.0	11,365.0	11,342.4	11,340.7	25.2	19.9	90.34	-2,733.6	163.6	282.9	237.7	45.15	6.265	
14,216.5	11,365.0	11,342.7	11,341.0	25.4	19.9	90.39	-2,733.7	163.6	282.4	237.2	45.22	6.245 CC, ES, SF	
14,300.0	11,365.0	11,343.9	11,342.3	25.9	19.9	90.65	-2,733.7	163.6	294.5	249.7	44.77	6.578	
14,400.0	11,365.0	11,345.4	11,343.8	26.7	19.9	90.95	-2,733.7	163.6	336.8	293.7	43.11	7.812	
14,500.0	11,365.0	11,347.0	11,345.3	27.4	19.9	91.26	-2,733.7	163.6	400.1	358.8	41.35	9.677	
14,600.0	11,365.0	11,348.5	11,346.8	28.1	19.9	91.57	-2,733.7	163.6	476.2	436.3	39.98	11.912	
14,700.0	11,365.0	11,350.0	11,348.4	28.8	19.9	91.88	-2,733.8	163.6	559.9	520.9	39.03	14.346	
14,800.0	11,365.0	11,351.6	11,349.9	29.5	19.9	92.19	-2,733.8	163.6	648.2	609.8	38.39	16.887	
14,900.0	11,365.0	11,353.1	11,351.4	30.2	19.9	92.50	-2,733.8	163.6	739.5	701.5	37.96	19.481	
15,000.0	11,365.0	11,354.6	11,353.0	31.0	19.9	92.82	-2,733.8	163.7	832.8	795.1	37.68	22.103	
15,100.0	11,365.0	11,356.2	11,354.5	31.7	19.9	93.13	-2,733.9	163.7	927.5	890.0	37.50	24.734	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #5H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB-31 @ 3195.9usft (N 894)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	MD Reference:	KB-31 @ 3195.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #5H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2731 PROJECT - ZIA HILLS UNIT 2731 WC #3H - OWB - PWP1														Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 10885-MWD+IFR1+MS														Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	3.0	-90.37	-0.3	-40.0	40.1					
100.0	100.0	99.7	99.7	3.0	3.0	3.0	-90.37	-0.3	-40.0	40.1	34.1	6.00	6.675		
200.0	200.0	199.7	199.7	3.0	3.0	3.0	-90.37	-0.3	-40.0	40.1	34.0	6.00	6.672		
300.0	300.0	299.7	299.7	3.0	3.0	3.0	-90.37	-0.3	-40.0	40.1	34.0	6.01	6.665		
400.0	400.0	399.7	399.7	3.0	3.0	3.0	-90.37	-0.3	-40.0	40.1	34.0	6.02	6.655		
500.0	500.0	499.7	499.7	3.1	3.1	3.1	-90.37	-0.3	-40.0	40.1	34.0	6.03	6.641		
600.0	600.0	599.7	599.7	3.1	3.1	3.1	-90.37	-0.3	-40.0	40.1	34.0	6.05	6.624		
700.0	700.0	699.7	699.7	3.1	3.1	3.1	-90.37	-0.3	-40.0	40.1	34.0	6.07	6.604		
800.0	800.0	799.7	799.7	3.2	3.2	3.2	-90.37	-0.3	-40.0	40.1	34.0	6.09	6.580		
900.0	900.0	899.7	899.7	3.2	3.2	3.2	-90.37	-0.3	-40.0	40.1	33.9	6.11	6.553		
1,000.0	1,000.0	999.7	999.7	3.2	3.2	3.2	-90.37	-0.3	-40.0	40.1	33.9	6.14	6.523		
1,100.0	1,100.0	1,099.7	1,099.7	3.3	3.3	3.3	-90.37	-0.3	-40.0	40.1	33.9	6.17	6.490		
1,200.0	1,200.0	1,199.7	1,199.7	3.4	3.4	3.4	-90.37	-0.3	-40.0	40.1	33.8	6.21	6.454		
1,300.0	1,300.0	1,299.7	1,299.7	3.4	3.4	3.4	-90.37	-0.3	-40.0	40.1	33.8	6.24	6.416		
1,400.0	1,400.0	1,399.7	1,399.7	3.5	3.5	3.5	-90.37	-0.3	-40.0	40.1	33.8	6.28	6.375		
1,500.0	1,500.0	1,499.7	1,499.7	3.5	3.5	3.5	-90.37	-0.3	-40.0	40.1	33.7	6.33	6.332		
1,600.0	1,600.0	1,599.7	1,599.7	3.6	3.6	3.6	-90.37	-0.3	-40.0	40.1	33.7	6.37	6.286		
1,700.0	1,700.0	1,699.7	1,699.7	3.7	3.7	3.7	-90.37	-0.3	-40.0	40.1	33.6	6.42	6.239		
1,800.0	1,800.0	1,799.7	1,799.7	3.8	3.8	3.8	-90.37	-0.3	-40.0	40.1	33.6	6.47	6.190		
1,900.0	1,900.0	1,899.7	1,899.7	3.9	3.9	3.9	-90.37	-0.3	-40.0	40.1	33.5	6.52	6.139		
2,000.0	2,000.0	1,999.7	1,999.7	3.9	3.9	3.9	-90.37	-0.3	-40.0	40.1	33.5	6.58	6.087		
2,100.0	2,100.0	2,099.7	2,099.7	4.0	4.0	4.0	-90.37	-0.3	-40.0	40.1	33.4	6.64	6.033		
2,200.0	2,200.0	2,199.7	2,199.7	4.1	4.1	4.1	-90.37	-0.3	-40.0	40.1	33.4	6.70	5.978		
2,300.0	2,300.0	2,299.7	2,299.7	4.2	4.2	4.2	-90.37	-0.3	-40.0	40.1	33.3	6.76	5.922		
2,400.0	2,400.0	2,399.7	2,399.7	4.3	4.3	4.3	-90.37	-0.3	-40.0	40.1	33.2	6.83	5.865		
2,500.0	2,500.0	2,499.7	2,499.7	4.4	4.4	4.4	-90.37	-0.3	-40.0	40.1	33.2	6.90	5.808 CC, ES, SF		
2,600.0	2,600.0	2,598.5	2,598.5	4.5	4.5	4.5	-146.19	0.8	-41.4	42.9	35.9	6.97	6.152		
2,700.0	2,699.8	2,696.9	2,696.8	4.5	4.5	4.5	-145.81	3.9	-45.4	51.3	44.2	7.04	7.282		
2,800.0	2,799.5	2,794.4	2,793.8	4.6	4.6	4.6	-145.37	9.0	-52.0	65.2	58.1	7.12	9.161		
2,900.0	2,898.7	2,890.4	2,889.2	4.7	4.7	4.7	-144.95	16.0	-61.1	84.7	77.5	7.21	11.750		
3,000.0	2,997.7	2,987.7	2,985.5	4.8	4.8	4.8	-144.73	24.2	-71.8	107.1	99.8	7.30	14.664		
3,100.0	3,096.8	3,085.1	3,082.0	4.8	4.8	4.8	-144.58	32.5	-82.5	129.5	122.1	7.40	17.490		
3,200.0	3,195.8	3,182.6	3,178.5	4.9	4.9	4.9	-144.48	40.8	-93.2	151.9	144.4	7.51	20.223		
3,300.0	3,294.8	3,280.0	3,275.0	5.0	5.0	5.0	-144.40	49.1	-104.0	174.3	166.7	7.63	22.861		
3,400.0	3,393.8	3,377.5	3,371.5	5.1	5.1	5.1	-144.34	57.4	-114.7	196.7	189.0	7.74	25.402		
3,500.0	3,492.9	3,474.9	3,468.1	5.2	5.2	5.2	-144.29	65.7	-125.4	219.1	211.3	7.87	27.847		
3,600.0	3,591.9	3,572.4	3,564.6	5.2	5.3	5.3	-144.25	74.0	-136.2	241.6	233.6	8.00	30.195		
3,700.0	3,690.9	3,669.9	3,661.1	5.3	5.3	5.3	-144.22	82.3	-146.9	264.0	255.8	8.14	32.446		
3,800.0	3,789.9	3,767.3	3,757.6	5.4	5.4	5.4	-144.19	90.6	-157.6	286.4	278.1	8.28	34.604		
3,900.0	3,889.0	3,864.8	3,854.1	5.5	5.5	5.5	-144.17	98.9	-168.4	308.8	300.4	8.42	36.667		
4,000.0	3,988.0	3,962.2	3,950.6	5.6	5.6	5.6	-144.15	107.2	-179.1	331.2	322.6	8.57	38.640		
4,100.0	4,087.0	4,059.7	4,047.1	5.7	5.7	5.7	-144.13	115.5	-189.8	353.6	344.9	8.73	40.524		
4,200.0	4,186.0	4,157.1	4,143.6	5.8	5.8	5.8	-144.12	123.7	-200.6	376.0	367.2	8.89	42.321		
4,300.0	4,285.1	4,254.6	4,240.1	5.9	5.9	5.9	-144.10	132.0	-211.3	398.5	389.4	9.05	44.035		
4,400.0	4,384.1	4,352.0	4,336.6	6.0	6.0	6.0	-144.09	140.3	-222.0	420.9	411.7	9.22	45.668		
4,500.0	4,483.1	4,449.5	4,433.1	6.1	6.1	6.1	-144.08	148.6	-232.8	443.3	433.9	9.39	47.223		
4,600.0	4,582.2	4,547.0	4,529.6	6.2	6.2	6.2	-144.07	156.9	-243.5	465.7	456.1	9.56	48.704		
4,700.0	4,681.2	4,644.4	4,626.1	6.3	6.3	6.3	-144.06	165.2	-254.2	488.1	478.4	9.74	50.112		
4,800.0	4,780.2	4,741.9	4,722.6	6.4	6.4	6.4	-144.05	173.5	-265.0	510.5	500.6	9.92	51.452		
4,900.0	4,879.2	4,839.3	4,819.2	6.5	6.5	6.5	-144.05	181.8	-275.7	532.9	522.8	10.11	52.725		
5,000.0	4,978.3	4,936.8	4,915.7	6.6	6.6	6.6	-144.04	190.1	-286.4	555.4	545.1	10.30	53.936		
5,100.0	5,077.3	5,034.2	5,012.2	6.7	6.7	6.7	-144.03	198.4	-297.2	577.8	567.3	10.49	55.086		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #5H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB-31 @ 3195.9usft (N 894)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	MD Reference:	KB-31 @ 3195.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #5H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2731 PROJECT - ZIA HILLS UNIT 2731 WC #3H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 10885-MWD+IFR1+MS												Offset Well Error:	3.0 usft
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 Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,200.0	5,176.3	5,131.7	5,108.7	6.9	6.8	-144.03	206.7	-307.9	600.2	589.5	10.68	56.179	
5,300.0	5,275.3	5,229.1	5,205.2	7.0	6.9	-144.02	215.0	-318.6	622.6	611.7	10.88	57.217	
5,400.0	5,374.4	5,326.6	5,301.7	7.1	7.0	-144.02	223.2	-329.4	645.0	633.9	11.08	58.203	
5,500.0	5,473.4	5,424.1	5,398.2	7.2	7.2	-144.01	231.5	-340.1	667.4	656.1	11.29	59.139	
5,600.0	5,572.4	5,521.5	5,494.7	7.3	7.3	-144.01	239.8	-350.8	689.8	678.4	11.49	60.028	
5,700.0	5,671.5	5,619.0	5,591.2	7.4	7.4	-144.00	248.1	-361.6	712.3	700.6	11.70	60.873	
5,800.0	5,770.5	5,721.5	5,692.8	7.5	7.5	-144.01	256.7	-372.7	734.5	722.6	11.91	61.677	
5,900.0	5,869.5	5,830.7	5,801.2	7.6	7.6	-144.09	264.8	-383.2	755.5	743.4	12.12	62.358	
6,000.0	5,968.5	5,940.6	5,910.5	7.8	7.7	-144.27	271.7	-392.1	775.0	762.7	12.32	62.886	
6,022.2	5,990.5	5,965.0	5,934.8	7.8	7.8	-144.32	273.0	-393.8	779.1	766.7	12.37	62.983	
6,100.0	6,067.6	6,051.2	6,020.7	7.9	7.9	-144.58	277.3	-399.3	792.5	780.0	12.53	63.240	
6,200.0	6,166.9	6,162.5	6,131.8	8.0	8.0	-144.91	281.6	-404.9	807.2	794.5	12.74	63.371	
6,300.0	6,266.4	6,274.4	6,243.6	8.1	8.1	-145.22	284.7	-408.9	818.9	806.0	12.94	63.291	
6,400.0	6,366.1	6,386.9	6,356.0	8.2	8.2	-145.52	286.4	-411.1	827.7	814.5	13.14	62.992	
6,500.0	6,465.9	6,496.5	6,465.6	8.3	8.4	-145.80	286.7	-411.6	833.5	820.2	13.31	62.610	
6,600.0	6,565.8	6,596.4	6,565.5	8.4	8.5	-146.01	286.7	-411.6	837.4	824.0	13.46	62.229	
6,700.0	6,665.7	6,696.3	6,665.4	8.6	8.6	-146.13	286.7	-411.6	839.9	826.3	13.60	61.761	
6,800.0	6,765.7	6,796.3	6,765.4	8.7	8.7	-146.19	286.7	-411.6	840.9	827.2	13.74	61.195	
6,822.2	6,787.9	6,818.5	6,787.6	8.7	8.7	-90.22	286.7	-411.6	841.0	827.2	13.77	61.081	
6,900.0	6,865.7	6,896.3	6,865.4	8.8	8.8	-90.22	286.7	-411.6	841.0	827.1	13.84	60.754	
7,000.0	6,965.7	6,996.3	6,965.4	8.9	8.9	-90.22	286.7	-411.6	841.0	827.0	13.94	60.336	
7,100.0	7,065.7	7,096.3	7,065.4	9.0	9.0	-90.22	286.7	-411.6	841.0	826.9	14.04	59.920	
7,200.0	7,165.7	7,196.3	7,165.4	9.1	9.2	-90.22	286.7	-411.6	841.0	826.9	14.13	59.507	
7,300.0	7,265.7	7,296.3	7,265.4	9.2	9.3	-90.22	286.7	-411.6	841.0	826.8	14.23	59.097	
7,400.0	7,365.7	7,396.3	7,365.4	9.3	9.4	-90.22	286.7	-411.6	841.0	826.7	14.33	58.690	
7,500.0	7,465.7	7,496.3	7,465.4	9.4	9.5	-90.22	286.7	-411.6	841.0	826.6	14.43	58.286	
7,600.0	7,565.7	7,596.3	7,565.4	9.6	9.6	-90.22	286.7	-411.6	841.0	826.5	14.53	57.884	
7,700.0	7,665.7	7,696.3	7,665.4	9.7	9.7	-90.22	286.7	-411.6	841.0	826.4	14.63	57.485	
7,800.0	7,765.7	7,796.3	7,765.4	9.8	9.8	-90.22	286.7	-411.6	841.0	826.3	14.73	57.090	
7,900.0	7,865.7	7,896.3	7,865.4	9.9	10.0	-90.22	286.7	-411.6	841.0	826.2	14.83	56.697	
8,000.0	7,965.7	7,996.3	7,965.4	10.0	10.1	-90.22	286.7	-411.6	841.0	826.0	14.94	56.308	
8,100.0	8,065.7	8,096.3	8,065.4	10.1	10.2	-90.22	286.7	-411.6	841.0	825.9	15.04	55.921	
8,200.0	8,165.7	8,196.3	8,165.4	10.2	10.3	-90.22	286.7	-411.6	841.0	825.8	15.14	55.538	
8,300.0	8,265.7	8,296.3	8,265.4	10.4	10.4	-90.22	286.7	-411.6	841.0	825.7	15.25	55.158	
8,400.0	8,365.7	8,396.3	8,365.4	10.5	10.5	-90.22	286.7	-411.6	841.0	825.6	15.35	54.781	
8,500.0	8,465.7	8,496.3	8,465.4	10.6	10.7	-90.22	286.7	-411.6	841.0	825.5	15.46	54.407	
8,600.0	8,565.7	8,596.3	8,565.4	10.7	10.8	-90.22	286.7	-411.6	841.0	825.4	15.56	54.037	
8,700.0	8,665.7	8,696.3	8,665.4	10.8	10.9	-90.22	286.7	-411.6	841.0	825.3	15.67	53.669	
8,800.0	8,765.7	8,796.3	8,765.4	10.9	11.0	-90.22	286.7	-411.6	841.0	825.2	15.78	53.305	
8,900.0	8,865.7	8,896.3	8,865.4	11.1	11.1	-90.22	286.7	-411.6	841.0	825.1	15.88	52.944	
9,000.0	8,965.7	8,996.3	8,965.4	11.2	11.3	-90.22	286.7	-411.6	841.0	825.0	15.99	52.587	
9,100.0	9,065.7	9,096.3	9,065.4	11.3	11.4	-90.22	286.7	-411.6	841.0	824.9	16.10	52.232	
9,200.0	9,165.7	9,196.3	9,165.4	11.4	11.5	-90.22	286.7	-411.6	841.0	824.8	16.21	51.881	
9,300.0	9,265.7	9,296.3	9,265.4	11.5	11.6	-90.22	286.7	-411.6	841.0	824.7	16.32	51.533	
9,400.0	9,365.7	9,396.3	9,365.4	11.6	11.7	-90.22	286.7	-411.6	841.0	824.6	16.43	51.188	
9,500.0	9,465.7	9,496.3	9,465.4	11.8	11.9	-90.22	286.7	-411.6	841.0	824.4	16.54	50.846	
9,600.0	9,565.7	9,596.3	9,565.4	11.9	12.0	-90.22	286.7	-411.6	841.0	824.3	16.65	50.508	
9,700.0	9,665.7	9,696.3	9,665.4	12.0	12.1	-90.22	286.7	-411.6	841.0	824.2	16.76	50.173	
9,800.0	9,765.7	9,796.3	9,765.4	12.1	12.2	-90.22	286.7	-411.6	841.0	824.1	16.87	49.841	
9,900.0	9,865.7	9,896.3	9,865.4	12.2	12.4	-90.22	286.7	-411.6	841.0	824.0	16.99	49.512	
10,000.0	9,965.7	9,996.3	9,965.4	12.4	12.5	-90.22	286.7	-411.6	841.0	823.9	17.10	49.186	
10,100.0	10,065.7	10,096.3	10,065.4	12.5	12.6	-90.22	286.7	-411.6	841.0	823.8	17.21	48.864	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #5H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB-31 @ 3195.9usft (N 894)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	MD Reference:	KB-31 @ 3195.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #5H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2731 PROJECT - ZIA HILLS UNIT 2731 WC #3H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 10885-MWD+IFR1+MS													Offset Well Error:	3.0 usft
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 Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,200.0	10,165.7	10,196.3	10,165.4	12.6	12.7	-90.22	286.7	-411.6	841.0	823.7	17.32	48.544		
10,300.0	10,265.7	10,296.3	10,265.4	12.7	12.8	-90.22	286.7	-411.6	841.0	823.5	17.44	48.228		
10,400.0	10,365.7	10,396.3	10,365.4	12.8	13.0	-90.22	286.7	-411.6	841.0	823.4	17.55	47.914		
10,500.0	10,465.7	10,496.3	10,465.4	13.0	13.1	-90.22	286.7	-411.6	841.0	823.3	17.67	47.604		
10,600.0	10,565.7	10,596.3	10,565.4	13.1	13.2	-90.22	286.7	-411.6	841.0	823.2	17.78	47.297		
10,700.0	10,665.7	10,696.3	10,665.4	13.2	13.3	-90.22	286.7	-411.6	841.0	823.1	17.90	46.993		
10,800.0	10,765.7	10,796.3	10,765.4	13.3	13.5	-90.22	286.7	-411.6	841.0	823.0	18.01	46.691		
10,900.0	10,865.7	10,896.3	10,865.4	13.4	13.5	-90.22	286.7	-411.6	841.0	822.9	18.12	46.402		
10,921.8	10,887.5	10,918.1	10,887.2	13.4	13.5	-90.22	286.7	-411.6	841.0	822.9	18.13	46.379		
10,925.0	10,890.7	10,921.3	10,890.4	13.4	13.5	90.09	286.7	-411.6	841.0	822.9	18.13	46.376		
10,950.0	10,915.7	10,946.4	10,915.5	13.4	13.5	90.09	285.9	-411.6	841.0	822.8	18.14	46.354		
10,975.0	10,940.6	10,971.5	10,940.5	13.5	13.6	90.09	283.7	-411.6	841.0	822.8	18.15	46.327		
11,000.0	10,965.4	10,996.5	10,965.3	13.5	13.6	90.08	280.2	-411.5	841.0	822.8	18.17	46.295		
11,025.0	10,989.9	11,021.6	10,989.9	13.5	13.6	90.08	275.4	-411.5	841.0	822.8	18.18	46.258		
11,050.0	11,014.2	11,046.7	11,014.2	13.6	13.7	90.08	269.3	-411.5	841.0	822.8	18.20	46.215		
11,075.0	11,038.1	11,071.7	11,038.2	13.6	13.7	90.07	262.0	-411.4	841.0	822.8	18.22	46.167		
11,100.0	11,061.6	11,096.8	11,061.7	13.6	13.7	90.07	253.4	-411.4	841.0	822.7	18.24	46.112		
11,125.0	11,084.6	11,121.8	11,084.8	13.7	13.8	90.06	243.6	-411.3	841.0	822.7	18.26	46.050		
11,150.0	11,107.1	11,146.9	11,107.3	13.7	13.8	90.06	232.6	-411.3	841.0	822.7	18.29	45.980		
11,175.0	11,129.0	11,171.9	11,129.2	13.7	13.9	90.05	220.5	-411.2	841.0	822.7	18.32	45.902		
11,200.0	11,150.2	11,197.0	11,150.4	13.8	13.9	90.05	207.2	-411.1	841.0	822.6	18.36	45.814		
11,225.0	11,170.7	11,222.0	11,170.9	13.8	13.9	90.05	192.8	-411.0	841.0	822.6	18.40	45.717		
11,250.0	11,190.5	11,247.1	11,190.6	13.9	14.0	90.04	177.4	-411.0	841.0	822.5	18.44	45.608		
11,275.0	11,209.4	11,272.1	11,209.5	13.9	14.0	90.04	160.9	-410.9	841.0	822.5	18.49	45.488		
11,300.0	11,227.4	11,297.1	11,227.5	13.9	14.0	90.03	143.5	-410.8	841.0	822.4	18.54	45.357		
11,325.0	11,244.5	11,322.2	11,244.5	14.0	14.1	90.02	125.2	-410.7	841.0	822.4	18.60	45.212		
11,350.0	11,260.6	11,347.2	11,260.6	14.0	14.1	90.02	106.0	-410.6	841.0	822.3	18.67	45.055		
11,375.0	11,275.7	11,372.2	11,275.6	14.0	14.1	90.01	86.0	-410.4	841.0	822.2	18.74	44.884		
11,400.0	11,289.7	11,397.2	11,289.5	14.1	14.2	90.01	65.3	-410.3	841.0	822.1	18.81	44.701		
11,425.0	11,302.6	11,422.2	11,302.4	14.1	14.2	90.00	43.8	-410.2	840.9	822.1	18.90	44.503		
11,450.0	11,314.4	11,447.2	11,314.1	14.1	14.2	90.00	21.7	-410.1	840.9	822.0	18.99	44.293		
11,475.0	11,325.0	11,472.2	11,324.6	14.1	14.3	89.99	-0.9	-410.0	840.9	821.9	19.08	44.069		
11,500.0	11,334.4	11,497.2	11,334.0	14.2	14.3	89.99	-24.1	-409.8	840.9	821.8	19.19	43.833		
11,525.0	11,342.6	11,522.2	11,342.1	14.2	14.3	89.98	-47.8	-409.7	840.9	821.6	19.29	43.585		
11,550.0	11,349.5	11,547.2	11,348.9	14.2	14.3	89.98	-71.8	-409.6	840.9	821.5	19.41	43.327		
11,575.0	11,355.2	11,572.2	11,354.5	14.2	14.3	89.97	-96.1	-409.4	840.9	821.4	19.53	43.058		
11,600.0	11,359.6	11,597.1	11,358.8	14.3	14.4	89.97	-120.7	-409.3	840.9	821.3	19.66	42.780		
11,625.0	11,362.7	11,622.1	11,361.8	14.3	14.4	89.96	-145.5	-409.1	840.9	821.1	19.79	42.495		
11,650.0	11,364.5	11,647.1	11,363.5	14.3	14.4	89.96	-170.4	-409.0	840.9	821.0	19.93	42.203		
11,671.8	11,365.0	11,668.8	11,364.0	14.3	14.4	89.95	-192.2	-408.9	840.9	820.9	20.05	41.945		
11,700.0	11,365.0	11,697.1	11,364.0	14.3	14.4	89.95	-220.4	-408.7	840.9	820.7	20.21	41.601		
11,800.0	11,365.0	11,797.1	11,364.0	14.3	14.4	89.95	-320.4	-408.2	840.9	820.0	20.90	40.240		
11,900.0	11,365.0	11,897.1	11,364.0	14.4	14.5	89.95	-420.4	-407.6	840.9	819.2	21.69	38.777		
12,000.0	11,365.0	11,997.1	11,364.0	14.5	14.5	89.95	-520.4	-407.0	840.9	818.3	22.55	37.289		
12,100.0	11,365.0	12,097.1	11,364.0	14.5	14.6	89.95	-620.4	-406.5	840.9	817.4	23.48	35.809		
12,200.0	11,365.0	12,197.1	11,364.0	14.7	14.7	89.95	-720.4	-405.9	840.8	816.4	24.47	34.357		
12,300.0	11,365.0	12,297.1	11,364.0	14.8	14.8	89.95	-820.4	-405.4	840.8	815.3	25.52	32.950		
12,400.0	11,365.0	12,397.1	11,364.0	15.0	14.9	89.95	-920.4	-404.8	840.8	814.2	26.61	31.598		
12,500.0	11,365.0	12,497.1	11,364.0	15.2	15.1	89.95	-1,020.4	-404.2	840.8	813.1	27.74	30.308		
12,600.0	11,365.0	12,597.1	11,364.0	15.5	15.3	89.95	-1,120.4	-403.7	840.8	811.9	28.91	29.082		
12,700.0	11,365.0	12,697.1	11,364.0	15.8	15.7	89.95	-1,220.4	-403.1	840.8	810.7	30.11	27.922		
12,800.0	11,365.0	12,797.1	11,364.0	16.3	16.1	89.95	-1,320.4	-402.6	840.8	809.4	31.34	26.827		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #5H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB-31 @ 3195.9usft (N 894)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	MD Reference:	KB-31 @ 3195.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #5H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2731 PROJECT - ZIA HILLS UNIT 2731 WC #3H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 10885-MWD+IFR1+MS													Offset Well Error:	3.0 usft
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 Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)						
12,900.0	11,365.0	12,897.1	11,364.0	16.8	16.6	89.95	-1,420.4	-402.0	840.7	808.2	32.59	25.794		
13,000.0	11,365.0	12,997.1	11,364.0	17.3	17.1	89.95	-1,520.4	-401.4	840.7	806.9	33.87	24.821		
13,100.0	11,365.0	13,097.1	11,364.0	17.9	17.7	89.95	-1,620.4	-400.9	840.7	805.6	35.17	23.906		
13,200.0	11,365.0	13,197.1	11,364.0	18.5	18.4	89.95	-1,720.4	-400.3	840.7	804.2	36.48	23.044		
13,300.0	11,365.0	13,297.1	11,364.0	19.1	19.0	89.95	-1,820.4	-399.7	840.7	802.9	37.81	22.233		
13,400.0	11,365.0	13,397.1	11,364.0	19.8	19.6	89.95	-1,920.4	-399.2	840.7	801.5	39.16	21.469		
13,500.0	11,365.0	13,497.1	11,364.0	20.4	20.3	89.95	-2,020.4	-398.6	840.7	800.2	40.51	20.750		
13,600.0	11,365.0	13,597.1	11,364.0	21.1	21.0	89.95	-2,120.4	-398.1	840.7	798.8	41.88	20.071		
13,700.0	11,365.0	13,697.1	11,364.0	21.8	21.7	89.95	-2,220.4	-397.5	840.6	797.4	43.26	19.431		
13,800.0	11,365.0	13,797.1	11,364.0	22.5	22.3	89.95	-2,320.4	-396.9	840.6	796.0	44.65	18.826		
13,900.0	11,365.0	13,897.1	11,364.0	23.1	23.0	89.95	-2,420.4	-396.4	840.6	794.6	46.05	18.254		
14,000.0	11,365.0	13,997.1	11,364.0	23.8	23.7	89.95	-2,520.4	-395.8	840.6	793.1	47.46	17.713		
14,100.0	11,365.0	14,097.1	11,364.0	24.5	24.4	89.95	-2,620.4	-395.3	840.6	791.7	48.87	17.200		
14,200.0	11,365.0	14,197.1	11,364.0	25.2	25.1	89.95	-2,720.4	-394.7	840.6	790.3	50.29	16.714		
14,300.0	11,365.0	14,297.1	11,364.0	25.9	25.9	89.95	-2,820.4	-394.1	840.6	788.8	51.72	16.253		
14,400.0	11,365.0	14,397.1	11,364.0	26.7	26.6	89.95	-2,920.4	-393.6	840.5	787.4	53.15	15.815		
14,500.0	11,365.0	14,497.1	11,364.0	27.4	27.3	89.95	-3,020.4	-393.0	840.5	785.9	54.58	15.399		
14,600.0	11,365.0	14,597.1	11,364.0	28.1	28.0	89.95	-3,120.3	-392.5	840.5	784.5	56.03	15.002		
14,700.0	11,365.0	14,697.1	11,364.0	28.8	28.7	89.95	-3,220.3	-391.9	840.5	783.0	57.47	14.625		
14,800.0	11,365.0	14,797.1	11,364.0	29.5	29.4	89.95	-3,320.3	-391.3	840.5	781.6	58.92	14.265		
14,900.0	11,365.0	14,897.1	11,364.0	30.2	30.2	89.95	-3,420.3	-390.8	840.5	780.1	60.37	13.921		
15,000.0	11,365.0	14,997.1	11,364.0	31.0	30.9	89.95	-3,520.3	-390.2	840.5	778.6	61.83	13.593		
15,100.0	11,365.0	15,097.1	11,364.0	31.7	31.6	89.95	-3,620.3	-389.7	840.4	777.2	63.29	13.279		
15,200.0	11,365.0	15,197.1	11,364.0	32.4	32.4	89.95	-3,720.3	-389.1	840.4	775.7	64.76	12.978		
15,300.0	11,365.0	15,297.1	11,364.0	33.2	33.1	89.95	-3,820.3	-388.5	840.4	774.2	66.22	12.691		
15,400.0	11,365.0	15,397.1	11,364.0	33.9	33.8	89.95	-3,920.3	-388.0	840.4	772.7	67.69	12.415		
15,500.0	11,365.0	15,497.1	11,364.0	34.6	34.6	89.95	-4,020.3	-387.4	840.4	771.2	69.16	12.151		
15,600.0	11,365.0	15,597.1	11,364.0	35.4	35.3	89.95	-4,120.3	-386.8	840.4	769.7	70.64	11.897		
15,700.0	11,365.0	15,697.1	11,364.0	36.1	36.0	89.95	-4,220.3	-386.3	840.4	768.3	72.11	11.654		
15,800.0	11,365.0	15,797.1	11,364.0	36.8	36.8	89.95	-4,320.3	-385.7	840.4	766.8	73.59	11.419		
15,900.0	11,365.0	15,897.1	11,364.0	37.6	37.5	89.95	-4,420.3	-385.2	840.3	765.3	75.07	11.194		
16,000.0	11,365.0	15,997.1	11,364.0	38.3	38.3	89.95	-4,520.3	-384.6	840.3	763.8	76.55	10.977		
16,100.0	11,365.0	16,097.1	11,364.0	39.1	39.0	89.95	-4,620.3	-384.0	840.3	762.3	78.04	10.768		
16,200.0	11,365.0	16,197.1	11,364.0	39.8	39.7	89.95	-4,720.3	-383.5	840.3	760.8	79.52	10.567		
16,300.0	11,365.0	16,297.1	11,364.0	40.5	40.5	89.95	-4,820.3	-382.9	840.3	759.3	81.01	10.373		
16,400.0	11,365.0	16,397.1	11,364.0	41.3	41.2	89.95	-4,920.3	-382.4	840.3	757.8	82.50	10.186		
16,500.0	11,365.0	16,497.1	11,364.0	42.0	42.0	89.95	-5,020.3	-381.8	840.3	756.3	83.99	10.005		
16,600.0	11,365.0	16,597.1	11,364.0	42.8	42.7	89.95	-5,120.3	-381.2	840.2	754.8	85.48	9.830		
16,700.0	11,365.0	16,697.1	11,364.0	43.5	43.5	89.95	-5,220.3	-380.7	840.2	753.3	86.97	9.661		
16,800.0	11,365.0	16,797.1	11,364.0	44.3	44.2	89.95	-5,320.3	-380.1	840.2	751.8	88.46	9.498		
16,900.0	11,365.0	16,897.1	11,364.0	45.0	45.0	89.95	-5,420.3	-379.6	840.2	750.2	89.96	9.340		
17,000.0	11,365.0	16,997.1	11,364.0	45.8	45.7	89.95	-5,520.3	-379.0	840.2	748.7	91.45	9.187		
17,100.0	11,365.0	17,097.1	11,364.0	46.5	46.5	89.95	-5,620.3	-378.4	840.2	747.2	92.95	9.039		
17,200.0	11,365.0	17,197.1	11,364.0	47.2	47.2	89.95	-5,720.3	-377.9	840.2	745.7	94.45	8.896		
17,300.0	11,365.0	17,297.1	11,364.0	48.0	48.0	89.95	-5,820.3	-377.3	840.1	744.2	95.94	8.757		
17,400.0	11,365.0	17,397.1	11,364.0	48.7	48.7	89.95	-5,920.3	-376.7	840.1	742.7	97.44	8.622		
17,500.0	11,365.0	17,497.1	11,364.0	49.5	49.5	89.95	-6,020.3	-376.2	840.1	741.2	98.94	8.491		
17,600.0	11,365.0	17,597.1	11,364.0	50.2	50.2	89.95	-6,120.3	-375.6	840.1	739.7	100.45	8.364		
17,700.0	11,365.0	17,697.1	11,364.0	51.0	51.0	89.95	-6,220.3	-375.1	840.1	738.1	101.95	8.240		
17,800.0	11,365.0	17,797.1	11,364.0	51.7	51.7	89.95	-6,320.3	-374.5	840.1	736.6	103.45	8.121		
17,900.0	11,365.0	17,897.1	11,364.0	52.5	52.5	89.95	-6,420.3	-373.9	840.1	735.1	104.95	8.004		
18,000.0	11,365.0	17,997.1	11,364.0	53.2	53.2	89.95	-6,520.3	-373.4	840.0	733.6	106.46	7.891		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #5H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB-31 @ 3195.9usft (N 894)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	MD Reference:	KB-31 @ 3195.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #5H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2731 PROJECT - ZIA HILLS UNIT 2731 WC #3H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program:	0-Standard Keeper 104, 10885-MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N-S (usft)	+E-W (usft)					
18,100.0	11,365.0	18,097.1	11,364.0	54.0	54.0	89.95	-6,620.3	-372.8	840.0	732.1	107.96	7.781	
18,200.0	11,365.0	18,197.1	11,364.0	54.8	54.7	89.95	-6,720.3	-372.3	840.0	730.6	109.47	7.674	
18,300.0	11,365.0	18,297.1	11,364.0	55.5	55.5	89.95	-6,820.3	-371.7	840.0	729.0	110.97	7.570	
18,400.0	11,365.0	18,397.1	11,364.0	56.3	56.2	89.95	-6,920.3	-371.1	840.0	727.5	112.48	7.468	
18,467.3	11,365.0	18,464.4	11,364.0	56.8	56.7	89.95	-6,987.6	-370.8	840.0	726.5	113.49	7.402	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #5H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB-31 @ 3195.9usft (N 894)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	MD Reference:	KB-31 @ 3195.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #5H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2731 PROJECT - ZIA HILLS UNIT 2731 WC #4H - OWB - PWP1													Offset Site Error:
Survey Program: 0-Standard Keeper 104, 11040-MWD+IFR1+MS													0.0 usft
Rule Assigned:													Offset Well Error:
Warning													3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (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
0.0	0.0	0.1	0.1	3.0	3.0	3.0	-90.37	-0.1	-20.1	20.1	14.1	6.00	3.348
100.0	100.0	100.1	100.1	3.0	3.0	3.0	-90.37	-0.1	-20.1	20.1	14.1	6.00	3.347
200.0	200.0	200.1	200.1	3.0	3.0	3.0	-90.37	-0.1	-20.1	20.1	14.1	6.01	3.343
300.0	300.0	300.1	300.1	3.0	3.0	3.0	-90.37	-0.1	-20.1	20.1	14.1	6.02	3.338
400.0	400.0	400.1	400.1	3.0	3.0	3.0	-90.37	-0.1	-20.1	20.1	14.1	6.03	3.331
500.0	500.0	500.1	500.1	3.1	3.1	3.1	-90.37	-0.1	-20.1	20.1	14.0	6.05	3.323
600.0	600.0	600.1	600.1	3.1	3.1	3.1	-90.37	-0.1	-20.1	20.1	14.0	6.07	3.312
700.0	700.0	700.1	700.1	3.2	3.2	3.2	-90.37	-0.1	-20.1	20.1	14.0	6.09	3.301
800.0	800.0	800.1	800.1	3.2	3.2	3.2	-90.37	-0.1	-20.1	20.1	14.0	6.11	3.287
900.0	900.0	900.1	900.1	3.2	3.2	3.2	-90.37	-0.1	-20.1	20.1	14.0	6.14	3.272
1,000.0	1,000.0	1,000.1	1,000.1	3.3	3.3	3.3	-90.37	-0.1	-20.1	20.1	13.9	6.17	3.255
1,100.0	1,100.0	1,100.1	1,100.1	3.4	3.4	3.4	-90.37	-0.1	-20.1	20.1	13.9	6.21	3.237
1,200.0	1,200.0	1,200.1	1,200.1	3.4	3.4	3.4	-90.37	-0.1	-20.1	20.1	13.8	6.24	3.218
1,300.0	1,300.0	1,300.1	1,300.1	3.5	3.5	3.5	-90.37	-0.1	-20.1	20.1	13.8	6.28	3.198
1,400.0	1,400.0	1,400.1	1,400.1	3.5	3.5	3.5	-90.37	-0.1	-20.1	20.1	13.8	6.33	3.176
1,500.0	1,500.0	1,500.1	1,500.1	3.6	3.6	3.6	-90.37	-0.1	-20.1	20.1	13.7	6.37	3.153
1,600.0	1,600.0	1,600.1	1,600.1	3.7	3.7	3.7	-90.37	-0.1	-20.1	20.1	13.7	6.42	3.130
1,700.0	1,700.0	1,700.1	1,700.1	3.8	3.8	3.8	-90.37	-0.1	-20.1	20.1	13.6	6.47	3.105
1,800.0	1,800.0	1,800.1	1,800.1	3.9	3.9	3.9	-90.37	-0.1	-20.1	20.1	13.6	6.52	3.079
1,900.0	1,900.0	1,900.1	1,900.1	3.9	3.9	3.9	-90.37	-0.1	-20.1	20.1	13.5	6.58	3.053
2,000.0	2,000.0	2,000.1	2,000.1	4.0	4.0	4.0	-90.37	-0.1	-20.1	20.1	13.5	6.64	3.026
2,100.0	2,100.0	2,100.1	2,100.1	4.1	4.1	4.1	-90.37	-0.1	-20.1	20.1	13.4	6.70	2.999
2,200.0	2,200.0	2,200.1	2,200.1	4.2	4.2	4.2	-90.37	-0.1	-20.1	20.1	13.3	6.76	2.971
2,300.0	2,300.0	2,300.1	2,300.1	4.3	4.3	4.3	-90.37	-0.1	-20.1	20.1	13.3	6.83	2.942
2,400.0	2,400.0	2,400.1	2,400.1	4.4	4.4	4.4	-90.37	-0.1	-20.1	20.1	13.2	6.90	2.913
2,500.0	2,500.0	2,500.1	2,500.1	4.4	4.4	4.4	-90.37	-0.1	-20.1	20.1	13.2	6.90	2.913 CC, ES, SF
2,600.0	2,600.0	2,600.2	2,600.1	4.5	4.5	4.5	-144.25	1.6	-19.9	21.4	14.4	6.97	3.068
2,700.0	2,699.8	2,700.1	2,699.9	4.5	4.6	4.6	-139.30	6.8	-19.4	25.3	18.3	7.06	3.591
2,800.0	2,799.5	2,799.8	2,799.3	4.6	4.7	4.7	-134.58	15.0	-18.6	32.2	25.0	7.17	4.487
2,900.0	2,898.7	2,899.3	2,898.5	4.7	4.8	4.8	-134.46	23.7	-17.7	41.6	34.4	7.25	5.742
3,000.0	2,997.7	2,998.8	2,997.5	4.8	4.9	4.9	-135.85	32.3	-16.8	52.3	44.9	7.31	7.151
3,100.0	3,096.8	3,098.2	3,096.5	4.8	5.0	5.0	-136.76	40.9	-16.0	62.9	55.5	7.38	8.525
3,200.0	3,195.8	3,197.6	3,195.6	4.9	5.1	5.1	-137.41	49.5	-15.1	73.6	66.1	7.46	9.861
3,300.0	3,294.8	3,297.0	3,294.6	5.0	5.2	5.2	-137.90	58.2	-14.3	84.3	76.7	7.55	11.158
3,400.0	3,393.8	3,396.5	3,393.7	5.1	5.3	5.3	-138.27	66.8	-13.4	95.0	87.3	7.65	12.417
3,500.0	3,492.9	3,495.9	3,492.7	5.2	5.4	5.4	-138.57	75.4	-12.5	105.7	97.9	7.75	13.635
3,600.0	3,591.9	3,595.3	3,591.8	5.2	5.5	5.5	-138.82	84.0	-11.7	116.3	108.5	7.85	14.813
3,700.0	3,690.9	3,694.7	3,690.8	5.3	5.6	5.6	-139.02	92.6	-10.8	127.0	119.1	7.96	15.951
3,800.0	3,789.9	3,794.2	3,789.9	5.4	5.7	5.7	-139.20	101.3	-9.9	137.7	129.7	8.08	17.048
3,900.0	3,889.0	3,893.6	3,888.9	5.5	5.8	5.8	-139.34	109.9	-9.1	148.4	140.2	8.20	18.106
4,000.0	3,988.0	3,993.0	3,988.0	5.6	5.9	5.9	-139.47	118.5	-8.2	159.1	150.8	8.32	19.124
4,100.0	4,087.0	4,092.4	4,087.0	5.7	6.0	6.0	-139.58	127.1	-7.4	169.8	161.4	8.45	20.104
4,200.0	4,186.0	4,191.9	4,186.1	5.8	6.1	6.1	-139.68	135.8	-6.5	180.5	172.0	8.58	21.045
4,300.0	4,285.1	4,291.3	4,285.1	5.9	6.3	6.3	-139.77	144.4	-5.6	191.2	182.5	8.71	21.949
4,400.0	4,384.1	4,390.7	4,384.2	6.0	6.4	6.4	-139.84	153.0	-4.8	201.9	193.1	8.85	22.816
4,500.0	4,483.1	4,490.1	4,483.2	6.1	6.5	6.5	-139.91	161.6	-3.9	212.6	203.6	8.99	23.648
4,600.0	4,582.2	4,589.6	4,582.3	6.2	6.6	6.6	-139.98	170.3	-3.1	223.3	214.2	9.14	24.445
4,700.0	4,681.2	4,689.0	4,681.3	6.3	6.7	6.7	-140.04	178.9	-2.2	234.0	224.8	9.28	25.208
4,800.0	4,780.2	4,788.4	4,780.4	6.4	6.8	6.8	-140.09	187.5	-1.3	244.7	235.3	9.44	25.939
4,900.0	4,879.2	4,887.9	4,879.4	6.5	6.9	6.9	-140.14	196.1	-0.5	255.4	245.9	9.59	26.638
5,000.0	4,978.3	4,987.3	4,978.4	6.6	7.1	7.1	-140.18	204.7	0.4	266.1	256.4	9.75	27.307

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #5H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB-31 @ 3195.9usft (N 894)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	MD Reference:	KB-31 @ 3195.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #5H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2731 PROJECT - ZIA HILLS UNIT 2731 WC #4H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11040-MWD+IFR1+MS													Offset Well Error:	3.0 usft
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 Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,100.0	5,077.3	5,086.7	5,077.5	6.7	7.2	-140.22	213.4	1.3	276.8	266.9	9.91	27.946		
5,200.0	5,176.3	5,186.1	5,176.5	6.9	7.3	-140.26	222.0	2.1	287.5	277.5	10.07	28.557		
5,300.0	5,275.3	5,285.6	5,275.6	7.0	7.4	-140.29	230.6	3.0	298.2	288.0	10.23	29.141		
5,400.0	5,374.4	5,385.0	5,374.6	7.1	7.5	-140.33	239.2	3.8	309.0	298.5	10.40	29.698		
5,500.0	5,473.4	5,484.4	5,473.7	7.2	7.6	-140.36	247.9	4.7	319.7	309.1	10.57	30.230		
5,600.0	5,572.4	5,583.8	5,572.7	7.3	7.8	-140.39	256.5	5.6	330.4	319.6	10.75	30.738		
5,700.0	5,671.5	5,683.2	5,671.8	7.4	7.9	-140.51	264.5	6.4	341.1	330.1	10.92	31.222		
5,800.0	5,770.5	5,782.5	5,770.9	7.5	8.0	-140.90	270.9	7.0	351.8	340.7	11.10	31.681		
5,900.0	5,869.5	5,881.7	5,870.0	7.6	8.1	-141.54	275.6	7.5	362.6	351.3	11.29	32.127		
6,000.0	5,968.5	5,980.8	5,969.0	7.8	8.2	-142.40	278.6	7.8	373.5	362.0	11.47	32.561		
6,022.2	5,990.5	6,002.7	5,990.9	7.8	8.3	-142.62	279.0	7.8	375.9	364.4	11.51	32.654		
6,100.0	6,067.6	6,079.6	6,067.8	7.9	8.3	-143.47	279.8	7.9	384.1	372.5	11.66	32.940		
6,200.0	6,166.9	6,178.9	6,167.0	8.0	8.5	-144.53	279.9	7.9	393.6	381.8	11.85	33.204		
6,300.0	6,266.4	6,278.4	6,266.5	8.1	8.6	-145.40	279.9	7.9	401.8	389.8	12.04	33.362		
6,400.0	6,366.1	6,378.0	6,366.2	8.2	8.7	-146.10	279.9	7.9	408.6	396.4	12.23	33.417		
6,500.0	6,465.9	6,477.8	6,466.0	8.3	8.8	-146.63	279.9	7.9	414.0	401.6	12.41	33.373		
6,600.0	6,565.8	6,577.7	6,565.9	8.4	9.0	-147.01	279.9	7.9	418.0	405.4	12.58	33.239		
6,700.0	6,665.7	6,677.6	6,665.8	8.6	9.1	-147.24	279.9	7.9	420.5	407.8	12.74	33.015		
6,800.0	6,765.7	6,777.6	6,765.8	8.7	9.2	-147.34	279.9	7.9	421.6	408.7	12.89	32.696		
6,822.2	6,787.9	6,799.8	6,788.0	8.7	9.2	-91.38	279.9	7.9	421.6	408.7	12.92	32.626		
6,900.0	6,865.7	6,877.6	6,865.8	8.8	9.3	-91.38	279.9	7.9	421.6	408.6	13.00	32.423		
7,000.0	6,965.7	6,977.6	6,965.8	8.9	9.5	-91.38	279.9	7.9	421.6	408.5	13.11	32.164		
7,100.0	7,065.7	7,077.6	7,065.8	9.0	9.6	-91.38	279.9	7.9	421.6	408.4	13.21	31.907		
7,200.0	7,165.7	7,177.6	7,165.8	9.1	9.7	-91.38	279.9	7.9	421.6	408.3	13.32	31.654		
7,300.0	7,265.7	7,277.6	7,265.8	9.2	9.8	-91.38	279.9	7.9	421.6	408.2	13.43	31.402		
7,400.0	7,365.7	7,377.6	7,365.8	9.3	10.0	-91.38	279.9	7.9	421.6	408.1	13.53	31.154		
7,500.0	7,465.7	7,477.6	7,465.8	9.4	10.1	-91.38	279.9	7.9	421.6	408.0	13.64	30.908		
7,600.0	7,565.7	7,577.6	7,565.8	9.6	10.2	-91.38	279.9	7.9	421.6	407.9	13.75	30.664		
7,700.0	7,665.7	7,677.6	7,665.8	9.7	10.3	-91.38	279.9	7.9	421.6	407.8	13.86	30.423		
7,800.0	7,765.7	7,777.6	7,765.8	9.8	10.5	-91.38	279.9	7.9	421.6	407.7	13.97	30.185		
7,900.0	7,865.7	7,877.6	7,865.8	9.9	10.6	-91.38	279.9	7.9	421.6	407.5	14.08	29.950		
8,000.0	7,965.7	7,977.6	7,965.8	10.0	10.7	-91.38	279.9	7.9	421.6	407.4	14.19	29.716		
8,100.0	8,065.7	8,077.6	8,065.8	10.1	10.8	-91.38	279.9	7.9	421.6	407.3	14.30	29.486		
8,200.0	8,165.7	8,177.6	8,165.8	10.2	11.0	-91.38	279.9	7.9	421.6	407.2	14.41	29.258		
8,300.0	8,265.7	8,277.6	8,265.8	10.4	11.1	-91.38	279.9	7.9	421.6	407.1	14.52	29.033		
8,400.0	8,365.7	8,377.6	8,365.8	10.5	11.2	-91.38	279.9	7.9	421.6	407.0	14.63	28.810		
8,500.0	8,465.7	8,477.6	8,465.8	10.6	11.3	-91.38	279.9	7.9	421.6	406.9	14.75	28.589		
8,600.0	8,565.7	8,577.6	8,565.8	10.7	11.5	-91.38	279.9	7.9	421.6	406.8	14.86	28.371		
8,700.0	8,665.7	8,677.6	8,665.8	10.8	11.6	-91.38	279.9	7.9	421.6	406.6	14.97	28.156		
8,800.0	8,765.7	8,777.6	8,765.8	10.9	11.7	-91.38	279.9	7.9	421.6	406.5	15.09	27.943		
8,900.0	8,865.7	8,877.6	8,865.8	11.1	11.8	-91.38	279.9	7.9	421.6	406.4	15.20	27.732		
9,000.0	8,965.7	8,977.6	8,965.8	11.2	12.0	-91.38	279.9	7.9	421.6	406.3	15.32	27.524		
9,100.0	9,065.7	9,077.6	9,065.8	11.3	12.1	-91.38	279.9	7.9	421.6	406.2	15.43	27.319		
9,200.0	9,165.7	9,177.6	9,165.8	11.4	12.2	-91.38	279.9	7.9	421.6	406.1	15.55	27.115		
9,300.0	9,265.7	9,277.6	9,265.8	11.5	12.4	-91.38	279.9	7.9	421.6	406.0	15.67	26.914		
9,400.0	9,365.7	9,377.6	9,365.8	11.6	12.5	-91.38	279.9	7.9	421.6	405.8	15.78	26.716		
9,500.0	9,465.7	9,477.6	9,465.8	11.8	12.6	-91.38	279.9	7.9	421.6	405.7	15.90	26.519		
9,600.0	9,565.7	9,577.6	9,565.8	11.9	12.7	-91.38	279.9	7.9	421.6	405.6	16.02	26.325		
9,700.0	9,665.7	9,677.6	9,665.8	12.0	12.9	-91.38	279.9	7.9	421.6	405.5	16.13	26.133		
9,800.0	9,765.7	9,777.6	9,765.8	12.1	13.0	-91.38	279.9	7.9	421.6	405.4	16.25	25.944		
9,900.0	9,865.7	9,877.6	9,865.8	12.2	13.1	-91.38	279.9	7.9	421.6	405.2	16.37	25.756		
10,000.0	9,965.7	9,977.6	9,965.8	12.4	13.3	-91.38	279.9	7.9	421.6	405.1	16.49	25.571		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #5H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB-31 @ 3195.9usft (N 894)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	MD Reference:	KB-31 @ 3195.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #5H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2731 PROJECT - ZIA HILLS UNIT 2731 WC #4H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11040-MWD+IFR1+MS													Offset Well Error:	3.0 usft
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 Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,100.0	10,065.7	10,077.6	10,065.8	12.5	13.4	-91.38	279.9	7.9	421.6	405.0	16.61	25.388		
10,200.0	10,165.7	10,177.6	10,165.8	12.6	13.5	-91.38	279.9	7.9	421.6	404.9	16.73	25.207		
10,300.0	10,265.7	10,277.6	10,265.8	12.7	13.6	-91.38	279.9	7.9	421.6	404.8	16.85	25.028		
10,400.0	10,365.7	10,377.6	10,365.8	12.8	13.8	-91.38	279.9	7.9	421.6	404.7	16.97	24.851		
10,500.0	10,465.7	10,477.6	10,465.8	13.0	13.9	-91.38	279.9	7.9	421.6	404.5	17.09	24.676		
10,600.0	10,565.7	10,577.6	10,565.8	13.1	14.0	-91.38	279.9	7.9	421.6	404.4	17.21	24.504		
10,700.0	10,665.7	10,677.6	10,665.8	13.2	14.1	-91.38	279.9	7.9	421.6	404.3	17.33	24.333		
10,800.0	10,765.7	10,777.6	10,765.8	13.3	14.3	-91.38	279.9	7.9	421.6	404.2	17.45	24.164		
10,900.0	10,865.7	10,877.6	10,865.8	13.4	14.4	-91.38	279.9	7.9	421.6	404.1	17.57	23.999		
10,921.8	10,887.5	10,899.4	10,887.6	13.4	14.4	-91.38	279.9	7.9	421.6	404.0	17.59	23.976		
10,925.0	10,890.7	10,902.6	10,890.8	13.4	14.4	88.94	279.9	7.9	421.6	404.0	17.59	23.972		
10,950.0	10,915.7	10,927.6	10,915.8	13.4	14.5	89.05	279.9	7.9	421.6	404.0	17.60	23.956		
10,975.0	10,940.6	10,952.5	10,940.7	13.5	14.5	89.34	279.9	7.9	421.6	404.0	17.60	23.956		
11,000.0	10,965.4	10,977.3	10,965.5	13.5	14.5	89.81	279.9	7.9	421.5	404.0	17.59	23.971		
11,008.3	10,973.6	10,985.5	10,973.7	13.5	14.5	90.00	279.9	7.9	421.5	404.0	17.58	23.980		
11,025.0	10,989.9	11,001.8	10,990.0	13.5	14.6	90.44	279.9	7.9	421.6	404.0	17.56	24.003		
11,050.0	11,014.2	11,026.1	11,014.3	13.6	14.6	91.22	279.9	7.9	421.6	404.1	17.53	24.054		
11,075.0	11,038.1	11,050.0	11,038.2	13.6	14.6	92.13	279.9	7.9	421.9	404.4	17.49	24.117		
11,100.0	11,061.6	11,073.8	11,062.0	13.6	14.6	93.18	279.8	7.9	422.3	404.8	17.46	24.192		
11,125.0	11,084.6	11,098.7	11,086.9	13.7	14.6	94.30	278.9	7.9	422.9	405.5	17.43	24.266		
11,150.0	11,107.1	11,124.2	11,112.2	13.7	14.7	95.42	276.6	7.9	423.7	406.3	17.42	24.324		
11,175.0	11,129.0	11,150.1	11,137.9	13.7	14.7	96.53	272.9	7.9	424.7	407.2	17.44	24.357		
11,200.0	11,150.2	11,176.6	11,163.9	13.8	14.7	97.64	267.7	8.0	425.8	408.4	17.48	24.359		
11,225.0	11,170.7	11,203.8	11,190.2	13.8	14.8	98.73	260.8	8.0	427.1	409.6	17.56	24.320		
11,250.0	11,190.5	11,231.5	11,216.6	13.9	14.8	99.82	252.3	8.1	428.6	410.9	17.69	24.233		
11,275.0	11,209.4	11,260.0	11,243.0	13.9	14.8	100.88	242.0	8.1	430.2	412.3	17.86	24.089		
11,300.0	11,227.4	11,289.1	11,269.5	13.9	14.9	101.93	229.8	8.2	431.9	413.8	18.08	23.883		
11,325.0	11,244.5	11,318.9	11,295.7	14.0	14.9	102.95	215.7	8.3	433.7	415.4	18.37	23.612		
11,350.0	11,260.6	11,349.5	11,321.7	14.0	15.0	103.94	199.5	8.4	435.6	416.9	18.71	23.277		
11,375.0	11,275.7	11,380.8	11,347.2	14.0	15.0	104.91	181.3	8.5	437.5	418.4	19.12	22.883		
11,400.0	11,289.7	11,412.9	11,372.0	14.1	15.0	105.83	160.9	8.6	439.5	419.9	19.59	22.438		
11,425.0	11,302.6	11,445.8	11,395.9	14.1	15.1	106.71	138.3	8.7	441.4	421.3	20.11	21.954		
11,450.0	11,314.4	11,479.4	11,418.7	14.1	15.1	107.55	113.6	8.9	443.3	422.7	20.67	21.445		
11,475.0	11,325.0	11,513.9	11,440.2	14.1	15.2	108.33	86.7	9.0	445.2	423.9	21.27	20.926		
11,500.0	11,334.4	11,549.1	11,460.1	14.2	15.2	109.04	57.7	9.2	446.9	425.0	21.90	20.410		
11,525.0	11,342.6	11,584.9	11,478.1	14.2	15.3	109.69	26.7	9.3	448.5	426.0	22.53	19.910		
11,550.0	11,349.5	11,621.5	11,494.0	14.2	15.3	110.27	-6.2	9.5	450.0	426.8	23.15	19.439		
11,575.0	11,355.2	11,658.6	11,507.6	14.2	15.3	110.77	-40.8	9.7	451.3	427.5	23.74	19.006		
11,600.0	11,359.6	11,696.3	11,518.5	14.3	15.4	111.18	-76.8	9.9	452.3	428.0	24.30	18.617		
11,625.0	11,362.7	11,734.4	11,526.7	14.3	15.4	111.49	-114.0	10.2	453.1	428.4	24.79	18.277		
11,650.0	11,364.5	11,772.8	11,531.9	14.3	15.4	111.72	-152.1	10.4	453.7	428.5	25.22	17.990		
11,671.8	11,365.0	11,806.4	11,533.9	14.3	15.4	111.83	-185.6	10.6	454.0	428.5	25.53	17.784		
11,700.0	11,365.0	11,841.1	11,533.8	14.3	15.4	111.82	-220.3	10.8	454.0	428.2	25.73	17.644		
11,800.0	11,365.0	11,941.1	11,532.5	14.3	15.4	111.67	-320.3	11.3	453.5	427.3	26.18	17.320		
11,900.0	11,365.0	12,041.1	11,531.2	14.4	15.5	111.51	-420.3	11.9	453.0	426.2	26.71	16.955		
12,000.0	11,365.0	12,141.1	11,529.8	14.5	15.5	111.36	-520.3	12.5	452.4	425.1	27.32	16.558		
12,100.0	11,365.0	12,241.1	11,528.5	14.5	15.5	111.20	-620.2	13.0	451.9	423.9	28.01	16.137		
12,200.0	11,365.0	12,341.1	11,527.2	14.7	15.5	111.04	-720.2	13.6	451.4	422.7	28.75	15.700		
12,300.0	11,365.0	12,441.1	11,525.8	14.8	15.6	110.89	-820.2	14.2	450.9	421.4	29.56	15.253		
12,400.0	11,365.0	12,541.1	11,524.5	15.0	15.6	110.73	-920.2	14.7	450.5	420.0	30.43	14.803		
12,500.0	11,365.0	12,641.1	11,523.2	15.2	15.7	110.57	-1,020.2	15.3	450.0	418.6	31.35	14.354		
12,600.0	11,365.0	12,741.1	11,521.9	15.5	15.7	110.42	-1,120.1	15.9	449.5	417.2	32.31	13.911		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #5H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB-31 @ 3195.9usft (N 894)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	MD Reference:	KB-31 @ 3195.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #5H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2731 PROJECT - ZIA HILLS UNIT 2731 WC #4H - OWB - PWP1													Offset Site Error:
Survey Program: 0-Standard Keeper 104, 11040-MWD+IFR1+MS													Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	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
12,700.0	11,365.0	12,841.1	11,520.5	15.8	15.8	110.26	-1,220.1	16.4	449.0	415.7	33.32	13.476	
12,800.0	11,365.0	12,941.0	11,519.2	16.3	15.8	110.10	-1,320.1	17.0	448.5	414.2	34.37	13.051	
12,900.0	11,365.0	13,041.0	11,517.9	16.8	16.0	109.94	-1,420.1	17.6	448.0	412.6	35.45	12.639	
13,000.0	11,365.0	13,141.0	11,516.6	17.3	16.6	109.78	-1,520.1	18.1	447.6	411.0	36.57	12.241	
13,100.0	11,365.0	13,241.0	11,515.2	17.9	17.2	109.62	-1,620.0	18.7	447.1	409.4	37.71	11.856	
13,200.0	11,365.0	13,341.0	11,513.9	18.5	17.9	109.46	-1,720.0	19.3	446.6	407.8	38.88	11.487	
13,300.0	11,365.0	13,441.0	11,512.6	19.1	18.6	109.30	-1,820.0	19.9	446.2	406.1	40.08	11.133	
13,400.0	11,365.0	13,541.0	11,511.2	19.8	19.2	109.14	-1,920.0	20.4	445.7	404.4	41.30	10.793	
13,500.0	11,365.0	13,641.0	11,509.9	20.4	19.9	108.98	-2,020.0	21.0	445.3	402.7	42.54	10.467	
13,600.0	11,365.0	13,741.0	11,508.6	21.1	20.6	108.82	-2,119.9	21.6	444.8	401.0	43.80	10.156	
13,700.0	11,365.0	13,841.0	11,507.3	21.8	21.3	108.66	-2,219.9	22.1	444.4	399.3	45.07	9.859	
13,800.0	11,365.0	13,941.0	11,505.9	22.5	22.0	108.50	-2,319.9	22.7	443.9	397.6	46.37	9.575	
13,900.0	11,365.0	14,040.9	11,504.6	23.1	22.7	108.34	-2,419.9	23.3	443.5	395.8	47.67	9.303	
14,000.0	11,365.0	14,140.9	11,503.3	23.8	23.4	108.18	-2,519.9	23.8	443.1	394.1	48.99	9.044	
14,100.0	11,365.0	14,240.9	11,502.0	24.5	24.1	108.01	-2,619.9	24.4	442.6	392.3	50.32	8.796	
14,200.0	11,365.0	14,340.9	11,500.6	25.2	24.9	107.85	-2,719.8	25.0	442.2	390.5	51.67	8.559	
14,300.0	11,365.0	14,440.9	11,499.3	25.9	25.6	107.69	-2,819.8	25.5	441.8	388.7	53.02	8.332	
14,400.0	11,365.0	14,540.9	11,498.0	26.7	26.3	107.52	-2,919.8	26.1	441.3	387.0	54.38	8.115	
14,500.0	11,365.0	14,640.9	11,496.6	27.4	27.0	107.36	-3,019.8	26.7	440.9	385.2	55.76	7.908	
14,600.0	11,365.0	14,740.9	11,495.3	28.1	27.8	107.20	-3,119.8	27.2	440.5	383.4	57.14	7.710	
14,700.0	11,365.0	14,840.9	11,494.0	28.8	28.5	107.03	-3,219.7	27.8	440.1	381.6	58.52	7.520	
14,800.0	11,365.0	14,940.9	11,492.7	29.5	29.2	106.87	-3,319.7	28.4	439.7	379.8	59.92	7.338	
14,900.0	11,365.0	15,040.9	11,491.3	30.2	29.9	106.70	-3,419.7	29.0	439.3	378.0	61.32	7.164	
15,000.0	11,365.0	15,140.8	11,490.0	31.0	30.7	106.54	-3,519.7	29.5	438.9	376.2	62.73	6.997	
15,100.0	11,365.0	15,240.8	11,488.7	31.7	31.4	106.37	-3,619.7	30.1	438.5	374.3	64.14	6.836	
15,200.0	11,365.0	15,340.8	11,487.4	32.4	32.1	106.21	-3,719.6	30.7	438.1	372.5	65.56	6.682	
15,300.0	11,365.0	15,440.8	11,486.0	33.2	32.9	106.04	-3,819.6	31.2	437.7	370.7	66.99	6.534	
15,400.0	11,365.0	15,540.8	11,484.7	33.9	33.6	105.87	-3,919.6	31.8	437.3	368.9	68.42	6.392	
15,500.0	11,365.0	15,640.8	11,483.4	34.6	34.4	105.71	-4,019.6	32.4	436.9	367.1	69.85	6.256	
15,600.0	11,365.0	15,740.8	11,482.0	35.4	35.1	105.54	-4,119.6	32.9	436.6	365.3	71.29	6.124	
15,700.0	11,365.0	15,840.8	11,480.7	36.1	35.8	105.37	-4,219.5	33.5	436.2	363.5	72.73	5.998	
15,800.0	11,365.0	15,940.8	11,479.4	36.8	36.6	105.20	-4,319.5	34.1	435.8	361.6	74.17	5.876	
15,900.0	11,365.0	16,040.8	11,478.1	37.6	37.3	105.04	-4,419.5	34.6	435.5	359.8	75.62	5.758	
16,000.0	11,365.0	16,140.8	11,476.7	38.3	38.1	104.87	-4,519.5	35.2	435.1	358.0	77.07	5.645	
16,100.0	11,365.0	16,240.8	11,475.4	39.1	38.8	104.70	-4,619.5	35.8	434.7	356.2	78.53	5.536	
16,200.0	11,365.0	16,340.7	11,474.1	39.8	39.6	104.53	-4,719.4	36.3	434.4	354.4	79.99	5.431	
16,300.0	11,365.0	16,440.7	11,472.8	40.5	40.3	104.36	-4,819.4	36.9	434.0	352.6	81.45	5.329	
16,400.0	11,365.0	16,540.7	11,471.4	41.3	41.0	104.19	-4,919.4	37.5	433.7	350.8	82.91	5.231	
16,500.0	11,365.0	16,640.7	11,470.1	42.0	41.8	104.02	-5,019.4	38.0	433.3	349.0	84.38	5.136	
16,600.0	11,365.0	16,740.7	11,468.8	42.8	42.5	103.85	-5,119.4	38.6	433.0	347.1	85.84	5.044	
16,700.0	11,365.0	16,840.7	11,467.4	43.5	43.3	103.68	-5,219.4	39.2	432.6	345.3	87.31	4.955	
16,800.0	11,365.0	16,940.7	11,466.1	44.3	44.0	103.51	-5,319.3	39.8	432.3	343.5	88.79	4.869	
16,900.0	11,365.0	17,040.7	11,464.8	45.0	44.8	103.34	-5,419.3	40.3	432.0	341.7	90.26	4.786	
17,000.0	11,365.0	17,140.7	11,463.5	45.8	45.5	103.17	-5,519.3	40.9	431.7	339.9	91.74	4.705	
17,100.0	11,365.0	17,240.7	11,462.1	46.5	46.3	103.00	-5,619.3	41.5	431.3	338.1	93.21	4.627	
17,200.0	11,365.0	17,340.7	11,460.8	47.2	47.0	102.83	-5,719.3	42.0	431.0	336.3	94.69	4.552	
17,300.0	11,365.0	17,440.6	11,459.5	48.0	47.8	102.66	-5,819.2	42.6	430.7	334.5	96.18	4.478	
17,400.0	11,365.0	17,540.6	11,458.2	48.7	48.5	102.49	-5,919.2	43.2	430.4	332.7	97.66	4.407	
17,500.0	11,365.0	17,640.6	11,456.8	49.5	49.3	102.31	-6,019.2	43.7	430.1	331.0	99.14	4.338	
17,600.0	11,365.0	17,740.6	11,455.5	50.2	50.0	102.14	-6,119.2	44.3	429.8	329.2	100.63	4.271	
17,700.0	11,365.0	17,840.6	11,454.2	51.0	50.8	101.97	-6,219.2	44.9	429.5	327.4	102.11	4.206	
17,800.0	11,365.0	17,940.6	11,452.8	51.7	51.5	101.80	-6,319.1	45.4	429.2	325.6	103.60	4.143	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #5H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB-31 @ 3195.9usft (N 894)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	MD Reference:	KB-31 @ 3195.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #5H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2731 PROJECT - ZIA HILLS UNIT 2731 WC #4H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11040-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance Between Centres		Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)			
17,900.0	11,365.0	18,040.6	11,451.5	52.5	52.3	101.62	-6,419.1	46.0	428.9	323.8	105.09	4.081		
18,000.0	11,365.0	18,140.6	11,450.2	53.2	53.1	101.45	-6,519.1	46.6	428.6	322.0	106.58	4.021		
18,100.0	11,365.0	18,240.6	11,448.9	54.0	53.8	101.28	-6,619.1	47.1	428.3	320.3	108.07	3.963		
18,200.0	11,365.0	18,340.6	11,447.5	54.8	54.6	101.10	-6,719.1	47.7	428.1	318.5	109.57	3.907		
18,300.0	11,365.0	18,440.6	11,446.2	55.5	55.3	100.93	-6,819.0	48.3	427.8	316.7	111.06	3.852		
18,400.0	11,365.0	18,540.5	11,444.9	56.3	56.1	100.76	-6,919.0	48.9	427.5	315.0	112.56	3.798		
18,467.3	11,365.0	18,606.8	11,444.0	56.8	56.6	100.64	-6,985.3	49.2	427.3	313.8	113.55	3.763		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #5H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB-31 @ 3195.9usft (N 894)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	MD Reference:	KB-31 @ 3195.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #5H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2731 PROJECT - ZIA HILLS UNIT 2731 WC #6H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11088-MWD+IFR1+MS								Rule Assigned:					Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	89.71	0.1	20.1	20.1					
100.0	100.0	99.1	99.1	3.0	3.0	89.71	0.1	20.1	20.1	14.1	6.00	3.347		
200.0	200.0	199.1	199.1	3.0	3.0	89.71	0.1	20.1	20.1	14.1	6.00	3.345		
300.0	300.0	299.1	299.1	3.0	3.0	89.71	0.1	20.1	20.1	14.1	6.01	3.342		
400.0	400.0	399.1	399.1	3.0	3.0	89.71	0.1	20.1	20.1	14.1	6.02	3.337		
500.0	500.0	499.1	499.1	3.1	3.1	89.71	0.1	20.1	20.1	14.0	6.03	3.330		
600.0	600.0	599.1	599.1	3.1	3.1	89.71	0.1	20.1	20.1	14.0	6.05	3.321		
700.0	700.0	699.1	699.1	3.1	3.1	89.71	0.1	20.1	20.1	14.0	6.07	3.311		
800.0	800.0	799.1	799.1	3.2	3.2	89.71	0.1	20.1	20.1	14.0	6.09	3.299		
900.0	900.0	899.1	899.1	3.2	3.2	89.71	0.1	20.1	20.1	14.0	6.11	3.285		
1,000.0	1,000.0	999.1	999.1	3.2	3.2	89.71	0.1	20.1	20.1	13.9	6.14	3.270		
1,100.0	1,100.0	1,099.1	1,099.1	3.3	3.3	89.71	0.1	20.1	20.1	13.9	6.17	3.254		
1,200.0	1,200.0	1,199.1	1,199.1	3.4	3.4	89.71	0.1	20.1	20.1	13.9	6.21	3.236		
1,300.0	1,300.0	1,299.1	1,299.1	3.4	3.4	89.71	0.1	20.1	20.1	13.8	6.24	3.217		
1,400.0	1,400.0	1,399.1	1,399.1	3.5	3.5	89.71	0.1	20.1	20.1	13.8	6.28	3.196		
1,500.0	1,500.0	1,499.1	1,499.1	3.5	3.5	89.71	0.1	20.1	20.1	13.8	6.33	3.175		
1,600.0	1,600.0	1,599.1	1,599.1	3.6	3.6	89.71	0.1	20.1	20.1	13.7	6.37	3.152		
1,700.0	1,700.0	1,699.1	1,699.1	3.7	3.7	89.71	0.1	20.1	20.1	13.7	6.42	3.128		
1,800.0	1,800.0	1,799.1	1,799.1	3.8	3.8	89.71	0.1	20.1	20.1	13.6	6.47	3.103		
1,900.0	1,900.0	1,899.1	1,899.1	3.9	3.9	89.71	0.1	20.1	20.1	13.6	6.52	3.078		
2,000.0	2,000.0	1,999.1	1,999.1	3.9	3.9	89.71	0.1	20.1	20.1	13.5	6.58	3.052		
2,100.0	2,100.0	2,099.1	2,099.1	4.0	4.0	89.71	0.1	20.1	20.1	13.4	6.64	3.025		
2,200.0	2,200.0	2,199.1	2,199.1	4.1	4.1	89.71	0.1	20.1	20.1	13.4	6.70	2.997		
2,300.0	2,300.0	2,299.1	2,299.1	4.2	4.2	89.71	0.1	20.1	20.1	13.3	6.76	2.969		
2,400.0	2,400.0	2,399.1	2,399.1	4.3	4.3	89.71	0.1	20.1	20.1	13.3	6.83	2.941		
2,500.0	2,500.0	2,499.1	2,499.1	4.4	4.4	89.71	0.1	20.1	20.1	13.2	6.90	2.912 CC, ES		
2,600.0	2,600.0	2,598.4	2,598.4	4.5	4.5	34.90	0.7	21.7	20.2	13.3	6.96	2.906 SF		
2,700.0	2,699.8	2,697.8	2,697.6	4.5	4.5	38.17	2.4	26.5	20.8	13.8	7.04	2.961		
2,800.0	2,799.5	2,797.1	2,796.6	4.6	4.6	43.17	5.2	34.6	22.0	14.8	7.12	3.085		
2,900.0	2,898.7	2,896.4	2,895.1	4.7	4.6	49.27	9.2	45.9	23.8	16.6	7.24	3.289		
3,000.0	2,997.7	2,996.3	2,994.0	4.8	4.7	54.99	13.9	59.0	26.3	18.9	7.39	3.559		
3,100.0	3,096.8	3,096.2	3,093.0	4.8	4.8	59.67	18.5	72.1	29.0	21.5	7.55	3.844		
3,200.0	3,195.8	3,196.2	3,192.0	4.9	4.8	63.54	23.1	85.2	31.9	24.2	7.71	4.139		
3,300.0	3,294.8	3,296.1	3,290.9	5.0	4.9	66.76	27.7	98.3	34.9	27.0	7.86	4.439		
3,400.0	3,393.8	3,396.0	3,389.9	5.1	5.0	69.46	32.4	111.5	38.0	30.0	8.01	4.742		
3,500.0	3,492.9	3,496.0	3,488.9	5.2	5.0	71.75	37.0	124.6	41.1	33.0	8.15	5.045		
3,600.0	3,591.9	3,595.9	3,587.8	5.2	5.1	73.71	41.6	137.7	44.3	36.1	8.30	5.345		
3,700.0	3,690.9	3,695.8	3,686.8	5.3	5.2	75.41	46.3	150.8	47.6	39.2	8.44	5.642		
3,800.0	3,789.9	3,795.8	3,785.8	5.4	5.3	76.88	50.9	163.9	50.9	42.3	8.58	5.933		
3,900.0	3,889.0	3,895.7	3,884.7	5.5	5.4	78.18	55.5	177.0	54.2	45.5	8.72	6.219		
4,000.0	3,988.0	3,995.7	3,983.7	5.6	5.5	79.32	60.2	190.1	57.6	48.7	8.86	6.497		
4,100.0	4,087.0	4,095.6	4,082.7	5.7	5.5	80.34	64.8	203.3	60.9	51.9	9.01	6.768		
4,200.0	4,186.0	4,195.5	4,181.6	5.8	5.6	81.26	69.4	216.4	64.3	55.2	9.15	7.031		
4,300.0	4,285.1	4,295.5	4,280.6	5.9	5.7	82.08	74.1	229.5	67.7	58.4	9.30	7.285		
4,400.0	4,384.1	4,395.4	4,379.6	6.0	5.8	82.82	78.7	242.6	71.1	61.7	9.45	7.531		
4,500.0	4,483.1	4,495.3	4,478.5	6.1	5.9	83.50	83.3	255.7	74.6	65.0	9.60	7.768		
4,600.0	4,582.2	4,595.3	4,577.5	6.2	6.0	84.11	88.0	268.8	78.0	68.3	9.76	7.997		
4,700.0	4,681.2	4,695.2	4,676.5	6.3	6.1	84.67	92.6	281.9	81.5	71.5	9.91	8.216		
4,800.0	4,780.2	4,795.2	4,775.4	6.4	6.2	85.19	97.2	295.1	84.9	74.8	10.08	8.426		
4,900.0	4,879.2	4,895.1	4,874.4	6.5	6.3	85.67	101.9	308.2	88.4	78.1	10.24	8.628		
5,000.0	4,978.3	4,995.0	4,973.3	6.6	6.4	86.11	106.5	321.3	91.8	81.4	10.41	8.820		
5,100.0	5,077.3	5,095.0	5,072.3	6.7	6.5	86.52	111.1	334.4	95.3	84.7	10.58	9.004		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #5H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB-31 @ 3195.9usft (N 894)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	MD Reference:	KB-31 @ 3195.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #5H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2731 PROJECT - ZIA HILLS UNIT 2731 WC #6H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11088-MWD+IFR1+MS													Offset Well Error:	3.0 usft
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 Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,200.0	5,176.3	5,194.9	5,171.3	6.9	6.6	86.90	115.8	347.5	98.8	88.0	10.76	9.180		
5,300.0	5,275.3	5,294.8	5,270.2	7.0	6.7	87.25	120.4	360.6	102.2	91.3	10.94	9.347		
5,400.0	5,374.4	5,394.8	5,369.2	7.1	6.8	87.58	125.0	373.7	105.7	94.6	11.12	9.506		
5,500.0	5,473.4	5,494.7	5,468.2	7.2	7.0	87.89	129.7	386.9	109.2	97.9	11.31	9.657		
5,600.0	5,572.4	5,594.7	5,567.1	7.3	7.1	88.18	134.3	400.0	112.7	101.2	11.50	9.800		
5,700.0	5,671.5	5,694.6	5,666.1	7.4	7.2	88.46	138.9	413.1	116.2	104.5	11.69	9.936		
5,800.0	5,770.5	5,794.5	5,765.1	7.5	7.3	88.72	143.6	426.2	119.7	107.8	11.89	10.064		
5,900.0	5,869.5	5,894.5	5,864.0	7.6	7.4	88.96	148.2	439.3	123.2	111.1	12.09	10.185		
6,000.0	5,968.5	5,994.4	5,963.0	7.8	7.5	89.19	152.8	452.4	126.6	114.3	12.30	10.299		
6,022.2	5,990.5	6,016.6	5,984.9	7.8	7.5	89.24	153.9	455.3	127.4	115.1	12.34	10.324		
6,100.0	6,067.6	6,094.3	6,062.0	7.9	7.6	89.20	157.5	465.5	130.1	117.7	12.49	10.421		
6,200.0	6,166.9	6,194.3	6,160.9	8.0	7.7	88.49	162.1	478.7	133.7	121.0	12.64	10.578		
6,300.0	6,266.4	6,294.1	6,259.8	8.1	7.9	87.09	166.7	491.8	137.3	124.6	12.75	10.775		
6,400.0	6,366.1	6,393.9	6,358.6	8.2	8.0	85.07	171.4	504.9	141.2	128.4	12.82	11.015		
6,500.0	6,465.9	6,493.6	6,457.4	8.3	8.1	82.48	176.0	517.9	145.4	132.6	12.87	11.304		
6,600.0	6,565.8	6,593.2	6,555.9	8.4	8.2	79.40	180.6	531.0	150.3	137.4	12.90	11.655		
6,700.0	6,665.7	6,692.6	6,654.4	8.6	8.3	75.92	185.2	544.0	156.0	143.1	12.92	12.069		
6,800.0	6,765.7	6,791.8	6,752.6	8.7	8.5	72.13	189.8	557.1	162.8	149.8	12.98	12.536		
6,822.2	6,787.9	6,813.7	6,774.3	8.7	8.5	127.23	190.8	559.9	164.4	151.4	13.00	12.646		
6,900.0	6,865.7	6,890.8	6,850.7	8.8	8.6	124.21	194.4	570.1	170.7	157.6	13.09	13.038		
7,000.0	6,965.7	6,989.8	6,948.7	8.9	8.7	120.64	199.0	583.1	179.3	166.1	13.24	13.547		
7,100.0	7,065.7	7,088.8	7,046.8	9.0	8.8	117.41	203.6	596.1	188.6	175.2	13.41	14.058		
7,200.0	7,165.7	7,187.9	7,144.8	9.1	8.9	114.49	208.2	609.0	198.4	184.8	13.62	14.570		
7,300.0	7,265.7	7,286.9	7,242.9	9.2	9.1	111.85	212.8	622.0	208.7	194.9	13.84	15.083		
7,400.0	7,365.7	7,385.9	7,341.0	9.3	9.2	109.46	217.3	635.0	219.4	205.3	14.07	15.594		
7,500.0	7,465.7	7,485.0	7,439.0	9.4	9.3	107.29	221.9	648.0	230.4	216.1	14.31	16.103		
7,600.0	7,565.7	7,584.0	7,537.1	9.6	9.4	105.33	226.5	661.0	241.8	227.2	14.55	16.611		
7,700.0	7,665.7	7,683.0	7,635.2	9.7	9.6	103.53	231.1	674.0	253.3	238.5	14.80	17.116		
7,800.0	7,765.7	7,782.0	7,733.2	9.8	9.7	101.90	235.7	687.0	265.2	250.1	15.05	17.618		
7,900.0	7,865.7	7,881.1	7,831.3	9.9	9.8	100.41	240.3	700.0	277.2	261.9	15.30	18.116		
8,000.0	7,965.7	7,980.1	7,929.4	10.0	9.9	99.04	244.9	713.0	289.3	273.8	15.55	18.610		
8,100.0	8,065.7	8,079.1	8,027.4	10.1	10.1	97.78	249.5	726.0	301.7	285.9	15.80	19.099		
8,200.0	8,165.7	8,178.1	8,125.5	10.2	10.2	96.62	254.1	739.0	314.1	298.1	16.04	19.583		
8,300.0	8,265.7	8,277.2	8,223.5	10.4	10.3	95.55	258.7	752.0	326.7	310.4	16.29	20.062		
8,400.0	8,365.7	8,376.2	8,321.6	10.5	10.5	94.56	263.3	765.0	339.4	322.9	16.53	20.535		
8,500.0	8,465.7	8,475.2	8,419.7	10.6	10.6	93.64	267.8	778.0	352.2	335.4	16.77	21.002		
8,600.0	8,565.7	8,574.2	8,517.7	10.7	10.7	92.78	272.4	791.0	365.0	348.0	17.01	21.463		
8,700.0	8,665.7	8,676.8	8,619.3	10.8	10.8	91.97	277.1	804.2	377.7	360.5	17.23	21.919		
8,800.0	8,765.7	8,782.7	8,724.4	10.9	11.0	91.28	281.3	816.2	388.9	371.5	17.44	22.296		
8,900.0	8,865.7	8,889.0	8,830.2	11.1	11.1	90.73	284.9	826.3	398.5	380.8	17.66	22.570		
9,000.0	8,965.7	8,995.7	8,936.6	11.2	11.2	90.30	287.9	834.7	406.3	388.4	17.87	22.741		
9,100.0	9,065.7	9,102.7	9,043.3	11.3	11.4	89.97	290.2	841.2	412.4	394.3	18.08	22.810		
9,200.0	9,165.7	9,209.9	9,150.4	11.4	11.5	89.75	291.8	845.9	416.7	398.4	18.29	22.780		
9,300.0	9,265.7	9,317.3	9,257.8	11.5	11.6	89.62	292.8	848.6	419.3	400.8	18.51	22.652		
9,400.0	9,365.7	9,424.4	9,364.8	11.6	11.7	89.58	293.1	849.5	420.1	401.4	18.72	22.440		
9,500.0	9,465.7	9,524.4	9,464.8	11.8	11.8	89.58	293.1	849.5	420.1	401.3	18.82	22.322		
9,600.0	9,565.7	9,624.4	9,564.8	11.9	11.9	89.58	293.1	849.5	420.1	401.2	18.92	22.205		
9,700.0	9,665.7	9,724.4	9,664.8	12.0	12.0	89.58	293.1	849.5	420.1	401.1	19.02	22.089		
9,800.0	9,765.7	9,824.4	9,764.8	12.1	12.1	89.58	293.1	849.5	420.1	401.0	19.12	21.973		
9,900.0	9,865.7	9,924.4	9,864.8	12.2	12.2	89.58	293.1	849.5	420.1	400.9	19.22	21.858		
10,000.0	9,965.7	10,024.4	9,964.8	12.4	12.3	89.58	293.1	849.5	420.1	400.8	19.32	21.743		
10,100.0	10,065.7	10,124.4	10,064.8	12.5	12.4	89.58	293.1	849.5	420.1	400.7	19.42	21.629		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #5H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB-31 @ 3195.9usft (N 894)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	MD Reference:	KB-31 @ 3195.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #5H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2731 PROJECT - ZIA HILLS UNIT 2731 WC #6H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11088-MWD+IFR1+MS													Offset Well Error:	3.0 usft
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 Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,200.0	10,165.7	10,224.4	10,164.8	12.6	12.5	89.58	293.1	849.5	420.1	400.6	19.52	21.516		
10,300.0	10,265.7	10,324.4	10,264.8	12.7	12.6	89.58	293.1	849.5	420.1	400.5	19.63	21.404		
10,400.0	10,365.7	10,424.4	10,364.8	12.8	12.7	89.58	293.1	849.5	420.1	400.4	19.73	21.292		
10,500.0	10,465.7	10,524.4	10,464.8	13.0	12.8	89.58	293.1	849.5	420.1	400.2	19.83	21.181		
10,600.0	10,565.7	10,624.4	10,564.8	13.1	12.9	89.58	293.1	849.5	420.1	400.1	19.94	21.071		
10,700.0	10,665.7	10,724.4	10,664.8	13.2	13.0	89.58	293.1	849.5	420.1	400.0	20.04	20.961		
10,800.0	10,765.7	10,824.4	10,764.8	13.3	13.2	89.58	293.1	849.5	420.1	399.9	20.15	20.852		
10,900.0	10,865.7	10,924.4	10,864.8	13.4	13.3	89.58	293.1	849.5	420.1	399.8	20.25	20.746		
10,921.8	10,887.5	10,946.2	10,886.6	13.4	13.3	89.58	293.1	849.5	420.1	399.8	20.26	20.731		
10,925.0	10,890.7	10,949.4	10,889.8	13.4	13.3	-90.11	293.1	849.5	420.1	399.8	20.27	20.729		
10,950.0	10,915.7	10,974.4	10,914.8	13.4	13.3	-90.22	293.1	849.5	420.1	399.8	20.29	20.699		
10,975.0	10,940.6	10,999.3	10,939.7	13.5	13.3	-90.51	293.1	849.5	420.1	399.8	20.34	20.649		
11,000.0	10,965.4	11,024.0	10,964.5	13.5	13.4	-90.97	293.1	849.5	420.1	399.7	20.42	20.578		
11,025.0	10,989.9	11,048.6	10,989.0	13.5	13.4	-91.59	293.1	849.5	420.3	399.7	20.51	20.489		
11,050.0	11,014.2	11,072.8	11,013.3	13.6	13.4	-92.35	293.1	849.5	420.5	399.8	20.63	20.382		
11,075.0	11,038.1	11,097.3	11,037.7	13.6	13.5	-93.26	293.0	849.5	420.8	400.1	20.77	20.263		
11,100.0	11,061.6	11,122.7	11,063.1	13.6	13.5	-94.22	291.8	849.5	421.3	400.4	20.90	20.161		
11,125.0	11,084.6	11,148.6	11,088.9	13.7	13.5	-95.17	289.1	849.5	422.0	400.9	21.03	20.065		
11,150.0	11,107.1	11,174.9	11,114.8	13.7	13.5	-96.12	285.0	849.5	422.7	401.5	21.16	19.975		
11,175.0	11,129.0	11,201.7	11,141.0	13.7	13.6	-97.05	279.4	849.6	423.6	402.3	21.30	19.887		
11,200.0	11,150.2	11,228.9	11,167.3	13.8	13.6	-97.98	272.2	849.6	424.5	403.1	21.44	19.801		
11,225.0	11,170.7	11,256.7	11,193.6	13.8	13.6	-98.89	263.3	849.6	425.6	404.0	21.59	19.713		
11,250.0	11,190.5	11,285.0	11,219.9	13.9	13.7	-99.78	252.6	849.7	426.8	405.0	21.75	19.620		
11,275.0	11,209.4	11,313.9	11,245.9	13.9	13.7	-100.64	240.2	849.8	428.0	406.0	21.92	19.520		
11,300.0	11,227.4	11,343.3	11,271.6	13.9	13.7	-101.49	226.0	849.8	429.2	407.1	22.12	19.410		
11,325.0	11,244.5	11,373.2	11,296.8	14.0	13.8	-102.30	209.9	849.9	430.6	408.2	22.32	19.287		
11,350.0	11,260.6	11,403.7	11,321.5	14.0	13.8	-103.08	191.9	850.0	431.9	409.3	22.55	19.152		
11,375.0	11,275.7	11,434.8	11,345.3	14.0	13.9	-103.83	172.0	850.1	433.2	410.4	22.80	19.004		
11,400.0	11,289.7	11,466.4	11,368.2	14.1	13.9	-104.54	150.1	850.3	434.6	411.5	23.06	18.843		
11,425.0	11,302.6	11,498.6	11,389.9	14.1	13.9	-105.20	126.4	850.4	435.9	412.5	23.34	18.673		
11,450.0	11,314.4	11,531.3	11,410.4	14.1	14.0	-105.81	100.9	850.5	437.1	413.5	23.63	18.496		
11,475.0	11,325.0	11,564.5	11,429.3	14.1	14.0	-106.37	73.6	850.7	438.3	414.4	23.93	18.316		
11,500.0	11,334.4	11,598.2	11,446.4	14.2	14.1	-106.88	44.7	850.8	439.4	415.1	24.22	18.139		
11,525.0	11,342.6	11,632.3	11,461.7	14.2	14.1	-107.32	14.2	851.0	440.3	415.8	24.51	17.968		
11,550.0	11,349.5	11,666.7	11,474.9	14.2	14.2	-107.70	-17.6	851.2	441.2	416.4	24.77	17.809		
11,575.0	11,355.2	11,701.6	11,485.9	14.2	14.2	-108.01	-50.7	851.4	441.9	416.9	25.01	17.667		
11,600.0	11,359.6	11,736.6	11,494.4	14.3	14.2	-108.26	-84.7	851.5	442.4	417.2	25.22	17.544		
11,625.0	11,362.7	11,771.9	11,500.5	14.3	14.3	-108.43	-119.4	851.7	442.8	417.4	25.38	17.445		
11,650.0	11,364.5	11,807.3	11,504.0	14.3	14.3	-108.52	-154.6	851.9	443.0	417.5	25.50	17.371		
11,671.8	11,365.0	11,837.2	11,505.0	14.3	14.3	-108.54	-184.5	852.1	443.1	417.5	25.57	17.327		
11,700.0	11,365.0	11,865.5	11,505.1	14.3	14.3	-108.56	-212.8	852.2	443.1	417.4	25.71	17.234		
11,800.0	11,365.0	11,965.5	11,505.5	14.3	14.4	-108.61	-312.8	852.8	443.3	417.0	26.27	16.872		
11,900.0	11,365.0	12,065.5	11,506.0	14.4	14.5	-108.67	-412.8	853.3	443.4	416.5	26.93	16.466		
12,000.0	11,365.0	12,165.5	11,506.4	14.5	14.6	-108.72	-512.7	853.9	443.5	415.9	27.66	16.038		
12,100.0	11,365.0	12,265.5	11,506.9	14.5	14.8	-108.77	-612.7	854.4	443.7	415.2	28.45	15.597		
12,200.0	11,365.0	12,365.5	11,507.3	14.7	15.0	-108.83	-712.7	855.0	443.8	414.5	29.30	15.149		
12,300.0	11,365.0	12,465.5	11,507.7	14.8	15.3	-108.88	-812.7	855.5	444.0	413.8	30.20	14.701		
12,400.0	11,365.0	12,565.5	11,508.2	15.0	15.6	-108.94	-912.7	856.1	444.1	413.0	31.15	14.256		
12,500.0	11,365.0	12,665.5	11,508.6	15.2	15.9	-108.99	-1,012.7	856.6	444.2	412.1	32.15	13.818		
12,600.0	11,365.0	12,765.5	11,509.1	15.5	16.3	-109.04	-1,112.7	857.2	444.4	411.2	33.19	13.390		
12,700.0	11,365.0	12,865.4	11,509.5	15.8	16.8	-109.10	-1,212.7	857.7	444.5	410.3	34.26	12.974		
12,800.0	11,365.0	12,965.4	11,510.0	16.3	17.3	-109.15	-1,312.7	858.2	444.7	409.3	35.37	12.572		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #5H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB-31 @ 3195.9usft (N 894)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	MD Reference:	KB-31 @ 3195.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #5H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2731 PROJECT - ZIA HILLS UNIT 2731 WC #6H - OWB - PWP1													Offset Site Error:
Survey Program: 0-Standard Keeper 104, 11088-MWD+IFR1+MS													0.0 usft
Rule Assigned:													Offset Well Error:
Warning													3.0 usft
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	
12,900.0	11,365.0	13,065.4	11,510.4	16.8	17.8	-109.21	-1,412.7	858.8	444.8	408.3	36.51	12.184	
13,000.0	11,365.0	13,165.4	11,510.8	17.3	18.3	-109.26	-1,512.7	859.3	445.0	407.3	37.68	11.810	
13,100.0	11,365.0	13,265.4	11,511.3	17.9	18.9	-109.31	-1,612.7	859.9	445.1	406.2	38.87	11.452	
13,200.0	11,365.0	13,365.4	11,511.7	18.5	19.5	-109.37	-1,712.7	860.4	445.3	405.2	40.08	11.109	
13,300.0	11,365.0	13,465.4	11,512.2	19.1	20.1	-109.42	-1,812.7	861.0	445.4	404.1	41.32	10.780	
13,400.0	11,365.0	13,565.4	11,512.6	19.8	20.7	-109.47	-1,912.7	861.5	445.5	403.0	42.57	10.465	
13,500.0	11,365.0	13,665.4	11,513.0	20.4	21.4	-109.53	-2,012.7	862.1	445.7	401.8	43.85	10.165	
13,600.0	11,365.0	13,765.4	11,513.5	21.1	22.0	-109.58	-2,112.7	862.6	445.8	400.7	45.13	9.878	
13,700.0	11,365.0	13,865.4	11,513.9	21.8	22.6	-109.63	-2,212.7	863.2	446.0	399.5	46.44	9.604	
13,800.0	11,365.0	13,965.4	11,514.4	22.5	23.3	-109.69	-2,312.7	863.7	446.1	398.4	47.75	9.342	
13,900.0	11,365.0	14,065.4	11,514.8	23.1	24.0	-109.74	-2,412.7	864.3	446.3	397.2	49.08	9.092	
14,000.0	11,365.0	14,165.4	11,515.3	23.8	24.6	-109.79	-2,512.7	864.8	446.4	396.0	50.42	8.853	
14,100.0	11,365.0	14,265.4	11,515.7	24.5	25.3	-109.85	-2,612.7	865.3	446.6	394.8	51.78	8.625	
14,200.0	11,365.0	14,365.4	11,516.1	25.2	26.0	-109.90	-2,712.7	865.9	446.7	393.6	53.14	8.407	
14,300.0	11,365.0	14,465.4	11,516.6	25.9	26.7	-109.95	-2,812.7	866.4	446.9	392.4	54.51	8.199	
14,400.0	11,365.0	14,565.4	11,517.0	26.7	27.4	-110.01	-2,912.7	867.0	447.0	391.1	55.88	7.999	
14,500.0	11,365.0	14,665.4	11,517.5	27.4	28.1	-110.06	-3,012.7	867.5	447.2	389.9	57.27	7.808	
14,600.0	11,365.0	14,765.4	11,517.9	28.1	28.8	-110.11	-3,112.7	868.1	447.3	388.7	58.66	7.625	
14,700.0	11,365.0	14,865.4	11,518.4	28.8	29.5	-110.17	-3,212.7	868.6	447.5	387.4	60.07	7.450	
14,800.0	11,365.0	14,965.4	11,518.8	29.5	30.2	-110.22	-3,312.7	869.2	447.6	386.2	61.47	7.282	
14,900.0	11,365.0	15,065.4	11,519.2	30.2	30.9	-110.27	-3,412.6	869.7	447.8	384.9	62.88	7.121	
15,000.0	11,365.0	15,165.4	11,519.7	31.0	31.6	-110.33	-3,512.6	870.3	447.9	383.6	64.30	6.966	
15,100.0	11,365.0	15,265.4	11,520.1	31.7	32.3	-110.38	-3,612.6	870.8	448.1	382.4	65.72	6.818	
15,200.0	11,365.0	15,365.4	11,520.6	32.4	33.0	-110.43	-3,712.6	871.4	448.2	381.1	67.15	6.675	
15,300.0	11,365.0	15,465.4	11,521.0	33.2	33.8	-110.48	-3,812.6	871.9	448.4	379.8	68.58	6.538	
15,400.0	11,365.0	15,565.4	11,521.4	33.9	34.5	-110.54	-3,912.6	872.4	448.5	378.5	70.02	6.406	
15,500.0	11,365.0	15,665.4	11,521.9	34.6	35.2	-110.59	-4,012.6	873.0	448.7	377.2	71.46	6.279	
15,600.0	11,365.0	15,765.4	11,522.3	35.4	35.9	-110.64	-4,112.6	873.5	448.9	375.9	72.91	6.157	
15,700.0	11,365.0	15,865.4	11,522.8	36.1	36.6	-110.70	-4,212.6	874.1	449.0	374.7	74.35	6.039	
15,800.0	11,365.0	15,965.4	11,523.2	36.8	37.4	-110.75	-4,312.6	874.6	449.2	373.4	75.81	5.925	
15,900.0	11,365.0	16,065.4	11,523.7	37.6	38.1	-110.80	-4,412.6	875.2	449.3	372.1	77.26	5.816	
16,000.0	11,365.0	16,165.4	11,524.1	38.3	38.8	-110.85	-4,512.6	875.7	449.5	370.8	78.72	5.710	
16,100.0	11,365.0	16,265.4	11,524.5	39.1	39.6	-110.91	-4,612.6	876.3	449.6	369.5	80.18	5.608	
16,200.0	11,365.0	16,365.4	11,525.0	39.8	40.3	-110.96	-4,712.6	876.8	449.8	368.1	81.64	5.509	
16,300.0	11,365.0	16,465.4	11,525.4	40.5	41.0	-111.01	-4,812.6	877.4	449.9	366.8	83.11	5.414	
16,400.0	11,365.0	16,565.4	11,525.9	41.3	41.8	-111.06	-4,912.6	877.9	450.1	365.5	84.57	5.322	
16,500.0	11,365.0	16,665.4	11,526.3	42.0	42.5	-111.12	-5,012.6	878.5	450.3	364.2	86.04	5.233	
16,600.0	11,365.0	16,765.4	11,526.7	42.8	43.2	-111.17	-5,112.6	879.0	450.4	362.9	87.52	5.147	
16,700.0	11,365.0	16,865.4	11,527.2	43.5	44.0	-111.22	-5,212.6	879.5	450.6	361.6	88.99	5.063	
16,800.0	11,365.0	16,965.4	11,527.6	44.3	44.7	-111.27	-5,312.6	880.1	450.7	360.3	90.47	4.982	
16,900.0	11,365.0	17,065.4	11,528.1	45.0	45.5	-111.33	-5,412.6	880.6	450.9	358.9	91.94	4.904	
17,000.0	11,365.0	17,165.4	11,528.5	45.8	46.2	-111.38	-5,512.6	881.2	451.1	357.6	93.42	4.828	
17,100.0	11,365.0	17,265.4	11,529.0	46.5	46.9	-111.43	-5,612.6	881.7	451.2	356.3	94.91	4.754	
17,200.0	11,365.0	17,365.4	11,529.4	47.2	47.7	-111.48	-5,712.6	882.3	451.4	355.0	96.39	4.683	
17,300.0	11,365.0	17,465.4	11,529.8	48.0	48.4	-111.54	-5,812.6	882.8	451.5	353.7	97.87	4.613	
17,400.0	11,365.0	17,565.4	11,530.3	48.7	49.2	-111.59	-5,912.6	883.4	451.7	352.3	99.36	4.546	
17,500.0	11,365.0	17,665.4	11,530.7	49.5	49.9	-111.64	-6,012.6	883.9	451.9	351.0	100.85	4.481	
17,600.0	11,365.0	17,765.4	11,531.2	50.2	50.7	-111.69	-6,112.6	884.5	452.0	349.7	102.34	4.417	
17,700.0	11,365.0	17,865.4	11,531.6	51.0	51.4	-111.74	-6,212.6	885.0	452.2	348.4	103.83	4.355	
17,800.0	11,365.0	17,965.4	11,532.0	51.7	52.1	-111.80	-6,312.6	885.6	452.3	347.0	105.32	4.295	
17,900.0	11,365.0	18,065.4	11,532.5	52.5	52.9	-111.85	-6,412.5	886.1	452.5	345.7	106.81	4.236	
18,000.0	11,365.0	18,165.4	11,532.9	53.2	53.6	-111.90	-6,512.5	886.6	452.7	344.4	108.31	4.180	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #5H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB-31 @ 3195.9usft (N 894)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	MD Reference:	KB-31 @ 3195.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #5H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2731 PROJECT - ZIA HILLS UNIT 2731 WC #6H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11088-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance Between Centres		Minimum Separation	Separation Factor	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)		
18,100.0	11,365.0	18,265.4	11,533.4	54.0	54.4	-111.95	-6,612.5	887.2	452.8	343.0	109.80	4.124	
18,200.0	11,365.0	18,365.4	11,533.8	54.8	55.1	-112.00	-6,712.5	887.7	453.0	341.7	111.30	4.070	
18,300.0	11,365.0	18,465.4	11,534.3	55.5	55.9	-112.05	-6,812.5	888.3	453.2	340.4	112.79	4.018	
18,400.0	11,365.0	18,565.4	11,534.7	56.3	56.6	-112.11	-6,912.5	888.8	453.3	339.0	114.29	3.966	
18,467.3	11,365.0	18,632.7	11,535.0	56.8	57.1	-112.14	-6,979.8	889.2	453.4	338.1	115.30	3.933	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #5H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB-31 @ 3195.9usft (N 894)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	MD Reference:	KB-31 @ 3195.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #5H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB-31 @ 3195.9usft (N 894)

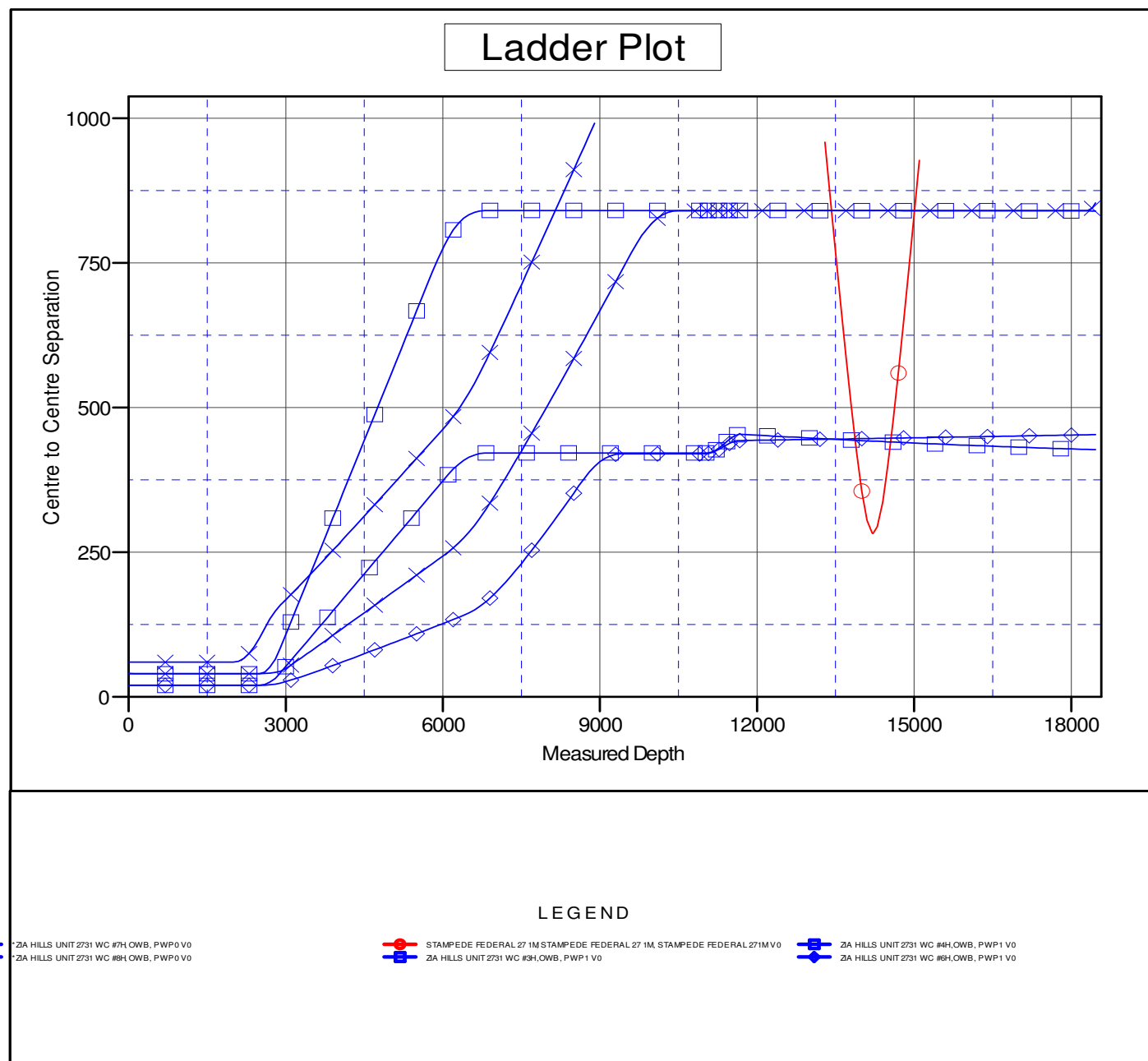
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS UNIT 2731 WC #5H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Grid Convergence at Surface is: 0.30°



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

ConocoPhillips

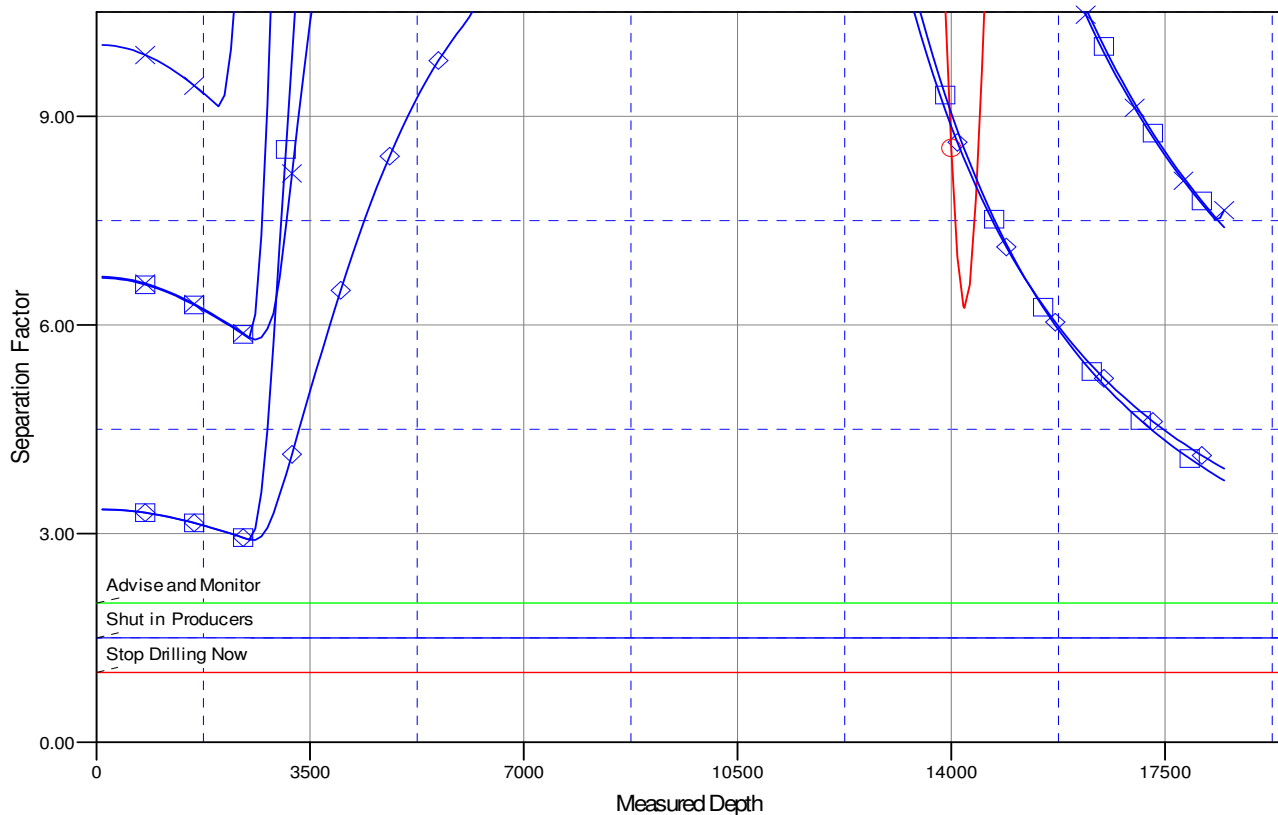
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #5H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB-31 @ 3195.9usft (N 894)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	MD Reference:	KB-31 @ 3195.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #5H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB-31 @ 3195.9usft (N 894)
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS UNIT 2731 WC #5H
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Grid Convergence at Surface is: 0.30°

Separation Factor Plot



LEGEND

- ZIA HILLS UNIT 2731 WC #7H,OWB, PWP0 V0
 - ZIA HILLS UNIT 2731 WC #8H,OWB, PWP0 V0
 - STAMPEDE FEDERAL 27 1M, STAMPEDE FEDERAL 27 1M, STAMPEDE FEDERAL 27 1M V0
 - ZIA HILLS UNIT 2731 WC #9H,OWB, PWP1 V0
 - ZIA HILLS UNIT 2731 WC #6H,OWB, PWP1 V0

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

DELAWARE BASIN EAST

LEA PROSPECT (NM-E)

ZIA HILLS UNIT 2731 PROJECT

ZIA HILLS UNIT 2731 WC #5H

OWB

Plan: PWP1

Standard Survey Report

24 March, 2022

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #5H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB-31 @ 3195.9usft (N 894)
Site:	ZIA HILLS UNIT 2731 PROJECT	MD Reference:	KB-31 @ 3195.9usft (N 894)
Well:	ZIA HILLS UNIT 2731 WC #5H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Project	LEA PROSPECT (NM-E)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	ZIA HILLS UNIT 2731 PROJECT		
Site Position:		Northing:	371,701.12 usft
From:	Map	Easting:	673,323.86 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 1' 14.475 N
		Longitude:	103° 46' 26.734 W
		Grid Convergence:	0.30 °

Well	ZIA HILLS UNIT 2731 WC #5H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	3.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 1' 9.853 N
		Longitude:	103° 46' 13.264 W
		Ground Level:	3,164.9 usft

Wellbore	OWB		
Magnetics	Model Name	Sample Date	Declination (°)
	BGGM2021	2/3/2022	6.50
			Dip Angle (°)
			59.58
			Field Strength (nT)
			47,449.23109110

Design	PWP1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
			Direction (°)
			176.16

Survey Tool Program	Date	3/24/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	10,892.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
10,892.0	18,467.3	PWP1 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #5H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB-31 @ 3195.9usft (N 894)
Site:	ZIA HILLS UNIT 2731 PROJECT	MD Reference:	KB-31 @ 3195.9usft (N 894)
Well:	ZIA HILLS UNIT 2731 WC #5H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

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)
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
2,600.0	2.00	55.97	2,600.0	1.0	1.4	-0.9	2.00	2.00	0.00
2,700.0	4.00	55.97	2,699.8	3.9	5.8	-3.5	2.00	2.00	0.00
2,800.0	6.00	55.97	2,799.5	8.8	13.0	-7.9	2.00	2.00	0.00
2,900.0	8.00	55.97	2,898.7	15.6	23.1	-14.0	2.00	2.00	0.00
Start 3122.2 hold at 2900.0 MD									
3,000.0	8.00	55.97	2,997.7	23.4	34.6	-21.0	0.00	0.00	0.00
3,100.0	8.00	55.97	3,096.8	31.2	46.2	-28.0	0.00	0.00	0.00
3,200.0	8.00	55.97	3,195.8	39.0	57.7	-35.0	0.00	0.00	0.00
3,300.0	8.00	55.97	3,294.8	46.8	69.2	-42.0	0.00	0.00	0.00
3,400.0	8.00	55.97	3,393.8	54.5	80.8	-49.0	0.00	0.00	0.00
3,500.0	8.00	55.97	3,492.9	62.3	92.3	-56.0	0.00	0.00	0.00
3,600.0	8.00	55.97	3,591.9	70.1	103.8	-63.0	0.00	0.00	0.00
3,700.0	8.00	55.97	3,690.9	77.9	115.4	-70.0	0.00	0.00	0.00
3,800.0	8.00	55.97	3,789.9	85.7	126.9	-77.0	0.00	0.00	0.00
3,900.0	8.00	55.97	3,889.0	93.5	138.4	-84.0	0.00	0.00	0.00
4,000.0	8.00	55.97	3,988.0	101.3	150.0	-91.0	0.00	0.00	0.00
4,100.0	8.00	55.97	4,087.0	109.1	161.5	-98.0	0.00	0.00	0.00
4,200.0	8.00	55.97	4,186.0	116.9	173.0	-105.0	0.00	0.00	0.00
4,300.0	8.00	55.97	4,285.1	124.7	184.6	-112.0	0.00	0.00	0.00
4,400.0	8.00	55.97	4,384.1	132.4	196.1	-119.0	0.00	0.00	0.00
4,500.0	8.00	55.97	4,483.1	140.2	207.6	-126.0	0.00	0.00	0.00
4,600.0	8.00	55.97	4,582.2	148.0	219.2	-133.0	0.00	0.00	0.00
4,700.0	8.00	55.97	4,681.2	155.8	230.7	-140.0	0.00	0.00	0.00
4,800.0	8.00	55.97	4,780.2	163.6	242.2	-147.0	0.00	0.00	0.00
4,900.0	8.00	55.97	4,879.2	171.4	253.8	-154.0	0.00	0.00	0.00
5,000.0	8.00	55.97	4,978.3	179.2	265.3	-161.0	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #5H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB-31 @ 3195.9usft (N 894)
Site:	ZIA HILLS UNIT 2731 PROJECT	MD Reference:	KB-31 @ 3195.9usft (N 894)
Well:	ZIA HILLS UNIT 2731 WC #5H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

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)	
5,100.0	8.00	55.97	5,077.3	187.0	276.8	-168.0	0.00	0.00	0.00	
5,200.0	8.00	55.97	5,176.3	194.8	288.4	-175.0	0.00	0.00	0.00	
5,300.0	8.00	55.97	5,275.3	202.5	299.9	-182.0	0.00	0.00	0.00	
5,400.0	8.00	55.97	5,374.4	210.3	311.4	-189.0	0.00	0.00	0.00	
5,500.0	8.00	55.97	5,473.4	218.1	323.0	-196.0	0.00	0.00	0.00	
5,600.0	8.00	55.97	5,572.4	225.9	334.5	-203.0	0.00	0.00	0.00	
5,700.0	8.00	55.97	5,671.5	233.7	346.0	-210.0	0.00	0.00	0.00	
5,800.0	8.00	55.97	5,770.5	241.5	357.6	-217.0	0.00	0.00	0.00	
5,900.0	8.00	55.97	5,869.5	249.3	369.1	-224.0	0.00	0.00	0.00	
6,000.0	8.00	55.97	5,968.5	257.1	380.6	-231.0	0.00	0.00	0.00	
6,022.2	8.00	55.97	5,990.5	258.8	383.2	-232.5	0.00	0.00	0.00	
Start Drop -1.00										
6,100.0	7.22	55.97	6,067.6	264.6	391.7	-237.7	1.00	-1.00	0.00	
6,200.0	6.22	55.97	6,166.9	271.1	401.4	-243.6	1.00	-1.00	0.00	
6,300.0	5.22	55.97	6,266.4	276.7	409.7	-248.6	1.00	-1.00	0.00	
6,400.0	4.22	55.97	6,366.1	281.3	416.5	-252.7	1.00	-1.00	0.00	
6,500.0	3.22	55.97	6,465.9	284.9	421.9	-256.0	1.00	-1.00	0.00	
6,600.0	2.22	55.97	6,565.8	287.6	425.8	-258.4	1.00	-1.00	0.00	
6,700.0	1.22	55.97	6,665.7	289.3	428.3	-259.9	1.00	-1.00	0.00	
6,800.0	0.22	55.97	6,765.7	290.0	429.4	-260.5	1.00	-1.00	0.00	
6,822.2	0.00	0.00	6,787.9	290.0	429.4	-260.6	1.00	-1.00	0.00	
Start 4099.6 hold at 6822.2 MD										
6,900.0	0.00	0.00	6,865.7	290.0	429.4	-260.6	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,965.7	290.0	429.4	-260.6	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,065.7	290.0	429.4	-260.6	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,165.7	290.0	429.4	-260.6	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,265.7	290.0	429.4	-260.6	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,365.7	290.0	429.4	-260.6	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,465.7	290.0	429.4	-260.6	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,565.7	290.0	429.4	-260.6	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,665.7	290.0	429.4	-260.6	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,765.7	290.0	429.4	-260.6	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,865.7	290.0	429.4	-260.6	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,965.7	290.0	429.4	-260.6	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,065.7	290.0	429.4	-260.6	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,165.7	290.0	429.4	-260.6	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,265.7	290.0	429.4	-260.6	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,365.7	290.0	429.4	-260.6	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,465.7	290.0	429.4	-260.6	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,565.7	290.0	429.4	-260.6	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,665.7	290.0	429.4	-260.6	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,765.7	290.0	429.4	-260.6	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,865.7	290.0	429.4	-260.6	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,965.7	290.0	429.4	-260.6	0.00	0.00	0.00	

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #5H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB-31 @ 3195.9usft (N 894)
Site:	ZIA HILLS UNIT 2731 PROJECT	MD Reference:	KB-31 @ 3195.9usft (N 894)
Well:	ZIA HILLS UNIT 2731 WC #5H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

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)
9,100.0	0.00	0.00	9,065.7	290.0	429.4	-260.6	0.00	0.00	0.00
9,200.0	0.00	0.00	9,165.7	290.0	429.4	-260.6	0.00	0.00	0.00
9,300.0	0.00	0.00	9,265.7	290.0	429.4	-260.6	0.00	0.00	0.00
9,400.0	0.00	0.00	9,365.7	290.0	429.4	-260.6	0.00	0.00	0.00
9,500.0	0.00	0.00	9,465.7	290.0	429.4	-260.6	0.00	0.00	0.00
9,600.0	0.00	0.00	9,565.7	290.0	429.4	-260.6	0.00	0.00	0.00
9,700.0	0.00	0.00	9,665.7	290.0	429.4	-260.6	0.00	0.00	0.00
9,800.0	0.00	0.00	9,765.7	290.0	429.4	-260.6	0.00	0.00	0.00
9,900.0	0.00	0.00	9,865.7	290.0	429.4	-260.6	0.00	0.00	0.00
10,000.0	0.00	0.00	9,965.7	290.0	429.4	-260.6	0.00	0.00	0.00
10,100.0	0.00	0.00	10,065.7	290.0	429.4	-260.6	0.00	0.00	0.00
10,200.0	0.00	0.00	10,165.7	290.0	429.4	-260.6	0.00	0.00	0.00
10,300.0	0.00	0.00	10,265.7	290.0	429.4	-260.6	0.00	0.00	0.00
10,400.0	0.00	0.00	10,365.7	290.0	429.4	-260.6	0.00	0.00	0.00
10,500.0	0.00	0.00	10,465.7	290.0	429.4	-260.6	0.00	0.00	0.00
10,600.0	0.00	0.00	10,565.7	290.0	429.4	-260.6	0.00	0.00	0.00
10,700.0	0.00	0.00	10,665.7	290.0	429.4	-260.6	0.00	0.00	0.00
10,800.0	0.00	0.00	10,765.7	290.0	429.4	-260.6	0.00	0.00	0.00
10,900.0	0.00	0.00	10,865.7	290.0	429.4	-260.6	0.00	0.00	0.00
10,921.8	0.00	0.00	10,887.5	290.0	429.4	-260.6	0.00	0.00	0.00
Start DLS 12.00 TFO 179.69									
11,000.0	9.39	179.69	10,965.4	283.6	429.4	-254.2	12.00	12.00	0.00
11,100.0	21.39	179.69	11,061.6	257.1	429.6	-227.7	12.00	12.00	0.00
11,200.0	33.39	179.69	11,150.2	211.2	429.8	-181.9	12.00	12.00	0.00
11,300.0	45.39	179.69	11,227.4	147.9	430.2	-118.7	12.00	12.00	0.00
11,400.0	57.39	179.69	11,289.7	69.9	430.6	-40.9	12.00	12.00	0.00
11,500.0	69.39	179.69	11,334.4	-19.4	431.1	48.2	12.00	12.00	0.00
11,600.0	81.39	179.69	11,359.6	-115.9	431.6	144.6	12.00	12.00	0.00
11,671.8	90.00	179.69	11,365.0	-187.5	432.0	216.0	12.00	12.00	0.00
Start 6795.5 hold at 11671.8 MD									
11,700.0	90.00	179.69	11,365.0	-215.7	432.2	244.2	0.00	0.00	0.00
11,800.0	90.00	179.69	11,365.0	-315.7	432.7	344.0	0.00	0.00	0.00
11,900.0	90.00	179.69	11,365.0	-415.7	433.3	443.8	0.00	0.00	0.00
12,000.0	90.00	179.69	11,365.0	-515.7	433.8	543.6	0.00	0.00	0.00
12,100.0	90.00	179.69	11,365.0	-615.7	434.4	643.4	0.00	0.00	0.00
12,200.0	90.00	179.69	11,365.0	-715.7	434.9	743.2	0.00	0.00	0.00
12,300.0	90.00	179.69	11,365.0	-815.7	435.5	843.0	0.00	0.00	0.00
12,400.0	90.00	179.69	11,365.0	-915.7	436.0	942.8	0.00	0.00	0.00
12,500.0	90.00	179.69	11,365.0	-1,015.7	436.6	1,042.6	0.00	0.00	0.00
12,600.0	90.00	179.69	11,365.0	-1,115.7	437.1	1,142.5	0.00	0.00	0.00
12,700.0	90.00	179.69	11,365.0	-1,215.7	437.6	1,242.3	0.00	0.00	0.00
12,800.0	90.00	179.69	11,365.0	-1,315.7	438.2	1,342.1	0.00	0.00	0.00
12,900.0	90.00	179.69	11,365.0	-1,415.7	438.7	1,441.9	0.00	0.00	0.00
13,000.0	90.00	179.69	11,365.0	-1,515.7	439.3	1,541.7	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #5H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB-31 @ 3195.9usft (N 894)
Site:	ZIA HILLS UNIT 2731 PROJECT	MD Reference:	KB-31 @ 3195.9usft (N 894)
Well:	ZIA HILLS UNIT 2731 WC #5H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

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)
13,100.0	90.00	179.69	11,365.0	-1,615.7	439.8	1,641.5	0.00	0.00	0.00
13,200.0	90.00	179.69	11,365.0	-1,715.7	440.4	1,741.3	0.00	0.00	0.00
13,300.0	90.00	179.69	11,365.0	-1,815.7	440.9	1,841.1	0.00	0.00	0.00
13,400.0	90.00	179.69	11,365.0	-1,915.7	441.5	1,940.9	0.00	0.00	0.00
13,500.0	90.00	179.69	11,365.0	-2,015.7	442.0	2,040.7	0.00	0.00	0.00
13,600.0	90.00	179.69	11,365.0	-2,115.6	442.6	2,140.6	0.00	0.00	0.00
13,700.0	90.00	179.69	11,365.0	-2,215.6	443.1	2,240.4	0.00	0.00	0.00
13,800.0	90.00	179.69	11,365.0	-2,315.6	443.7	2,340.2	0.00	0.00	0.00
13,900.0	90.00	179.69	11,365.0	-2,415.6	444.2	2,440.0	0.00	0.00	0.00
14,000.0	90.00	179.69	11,365.0	-2,515.6	444.8	2,539.8	0.00	0.00	0.00
14,100.0	90.00	179.69	11,365.0	-2,615.6	445.3	2,639.6	0.00	0.00	0.00
14,200.0	90.00	179.69	11,365.0	-2,715.6	445.9	2,739.4	0.00	0.00	0.00
14,300.0	90.00	179.69	11,365.0	-2,815.6	446.4	2,839.2	0.00	0.00	0.00
14,400.0	90.00	179.69	11,365.0	-2,915.6	447.0	2,939.0	0.00	0.00	0.00
14,500.0	90.00	179.69	11,365.0	-3,015.6	447.5	3,038.9	0.00	0.00	0.00
14,600.0	90.00	179.69	11,365.0	-3,115.6	448.0	3,138.7	0.00	0.00	0.00
14,700.0	90.00	179.69	11,365.0	-3,215.6	448.6	3,238.5	0.00	0.00	0.00
14,800.0	90.00	179.69	11,365.0	-3,315.6	449.1	3,338.3	0.00	0.00	0.00
14,900.0	90.00	179.69	11,365.0	-3,415.6	449.7	3,438.1	0.00	0.00	0.00
15,000.0	90.00	179.69	11,365.0	-3,515.6	450.2	3,537.9	0.00	0.00	0.00
15,100.0	90.00	179.69	11,365.0	-3,615.6	450.8	3,637.7	0.00	0.00	0.00
15,200.0	90.00	179.69	11,365.0	-3,715.6	451.3	3,737.5	0.00	0.00	0.00
15,300.0	90.00	179.69	11,365.0	-3,815.6	451.9	3,837.3	0.00	0.00	0.00
15,400.0	90.00	179.69	11,365.0	-3,915.6	452.4	3,937.1	0.00	0.00	0.00
15,500.0	90.00	179.69	11,365.0	-4,015.6	453.0	4,037.0	0.00	0.00	0.00
15,600.0	90.00	179.69	11,365.0	-4,115.6	453.5	4,136.8	0.00	0.00	0.00
15,700.0	90.00	179.69	11,365.0	-4,215.6	454.1	4,236.6	0.00	0.00	0.00
15,800.0	90.00	179.69	11,365.0	-4,315.6	454.6	4,336.4	0.00	0.00	0.00
15,900.0	90.00	179.69	11,365.0	-4,415.6	455.2	4,436.2	0.00	0.00	0.00
16,000.0	90.00	179.69	11,365.0	-4,515.6	455.7	4,536.0	0.00	0.00	0.00
16,100.0	90.00	179.69	11,365.0	-4,615.6	456.3	4,635.8	0.00	0.00	0.00
16,200.0	90.00	179.69	11,365.0	-4,715.6	456.8	4,735.6	0.00	0.00	0.00
16,300.0	90.00	179.69	11,365.0	-4,815.6	457.3	4,835.4	0.00	0.00	0.00
16,400.0	90.00	179.69	11,365.0	-4,915.6	457.9	4,935.2	0.00	0.00	0.00
16,500.0	90.00	179.69	11,365.0	-5,015.6	458.4	5,035.1	0.00	0.00	0.00
16,600.0	90.00	179.69	11,365.0	-5,115.6	459.0	5,134.9	0.00	0.00	0.00
16,700.0	90.00	179.69	11,365.0	-5,215.6	459.5	5,234.7	0.00	0.00	0.00
16,800.0	90.00	179.69	11,365.0	-5,315.6	460.1	5,334.5	0.00	0.00	0.00
16,900.0	90.00	179.69	11,365.0	-5,415.6	460.6	5,434.3	0.00	0.00	0.00
17,000.0	90.00	179.69	11,365.0	-5,515.6	461.2	5,534.1	0.00	0.00	0.00
17,100.0	90.00	179.69	11,365.0	-5,615.6	461.7	5,633.9	0.00	0.00	0.00
17,200.0	90.00	179.69	11,365.0	-5,715.6	462.3	5,733.7	0.00	0.00	0.00
17,300.0	90.00	179.69	11,365.0	-5,815.6	462.8	5,833.5	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #5H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB-31 @ 3195.9usft (N 894)
Site:	ZIA HILLS UNIT 2731 PROJECT	MD Reference:	KB-31 @ 3195.9usft (N 894)
Well:	ZIA HILLS UNIT 2731 WC #5H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,400.0	90.00	179.69	11,365.0	-5,915.6	463.4	5,933.3	0.00	0.00	0.00
17,500.0	90.00	179.69	11,365.0	-6,015.6	463.9	6,033.2	0.00	0.00	0.00
17,600.0	90.00	179.69	11,365.0	-6,115.6	464.5	6,133.0	0.00	0.00	0.00
17,700.0	90.00	179.69	11,365.0	-6,215.6	465.0	6,232.8	0.00	0.00	0.00
17,800.0	90.00	179.69	11,365.0	-6,315.6	465.6	6,332.6	0.00	0.00	0.00
17,900.0	90.00	179.69	11,365.0	-6,415.6	466.1	6,432.4	0.00	0.00	0.00
18,000.0	90.00	179.69	11,365.0	-6,515.6	466.7	6,532.2	0.00	0.00	0.00
18,100.0	90.00	179.69	11,365.0	-6,615.6	467.2	6,632.0	0.00	0.00	0.00
18,200.0	90.00	179.69	11,365.0	-6,715.6	467.7	6,731.8	0.00	0.00	0.00
18,300.0	90.00	179.69	11,365.0	-6,815.6	468.3	6,831.6	0.00	0.00	0.00
18,400.0	90.00	179.69	11,365.0	-6,915.6	468.8	6,931.4	0.00	0.00	0.00
18,467.3	90.00	179.69	11,365.0	-6,982.9	469.2	6,998.6	0.00	0.00	0.00
TD at 18467.3									

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(ZHU 2731 WC #: - hit/miss target center by 257.8usft at 11264.4usft MD (11201.4 TVD, 172.3 N, 430.1 E) - Circle (radius 50.0)	0.00	0.00	11,365.0	371.5	428.4	371,611.66	674,914.41	32° 1' 13.508 N	103° 46' 8.265 W
LTP(ZHU 2731 WC #: - plan misses target center by 17.3usft at 18400.0usft MD (11365.0 TVD, -6915.6 N, 468.8 E) - Point	0.00	0.00	11,365.0	-6,932.9	468.9	364,307.25	674,954.95	32° 0' 1.220 N	103° 46' 8.237 W
PBHL(ZHU 2731 WC - plan hits target center - Rectangle (sides W100.0 H7,400.0 D20.0)	0.00	359.69	11,365.0	-6,982.9	469.2	364,257.25	674,955.22	32° 0' 0.725 N	103° 46' 8.237 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2500	2500	0	0	Start Build 2.00
2900	2899	16	23	Start 3122.2 hold at 2900.0 MD
6022	5990	259	383	Start Drop -1.00
6822	6788	290	429	Start 4099.6 hold at 6822.2 MD
10,922	10,888	290	429	Start DLS 12.00 TFO 179.69
11,672	11,365	-187	432	Start 6795.5 hold at 11671.8 MD
18,467	11,365	-6983	469	TD at 18467.3

Checked By: _____ Approved By: _____ Date: _____



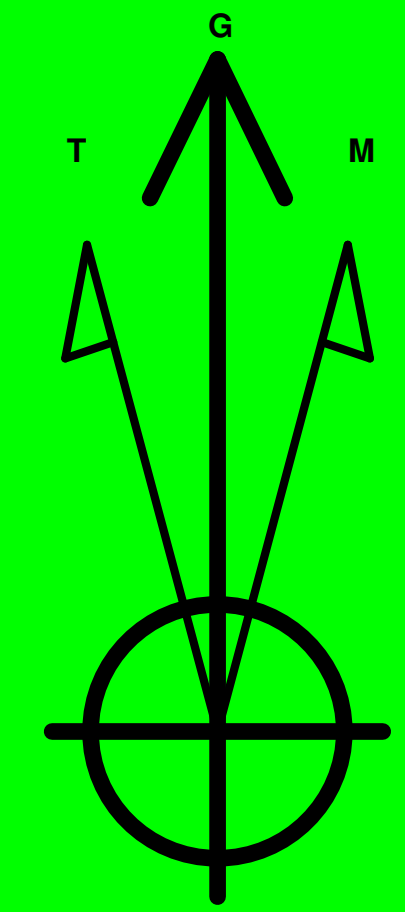
Project: LEA PROSPECT (NM-E)
Site: ZIA HILLS UNIT 2731 PROJECT
Well: ZIA HILLS UNIT 2731 WC #5H
Wellbore: OWB
Design: PWP1
GL: 3164.9
KB-31 @ 3195.9usft (N 894)

WELL DETAILS: ZIA HILLS UNIT 2731 WC #5H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	371240.14	674486.01	32° 1' 9.853 N	103° 46' 13.264 W

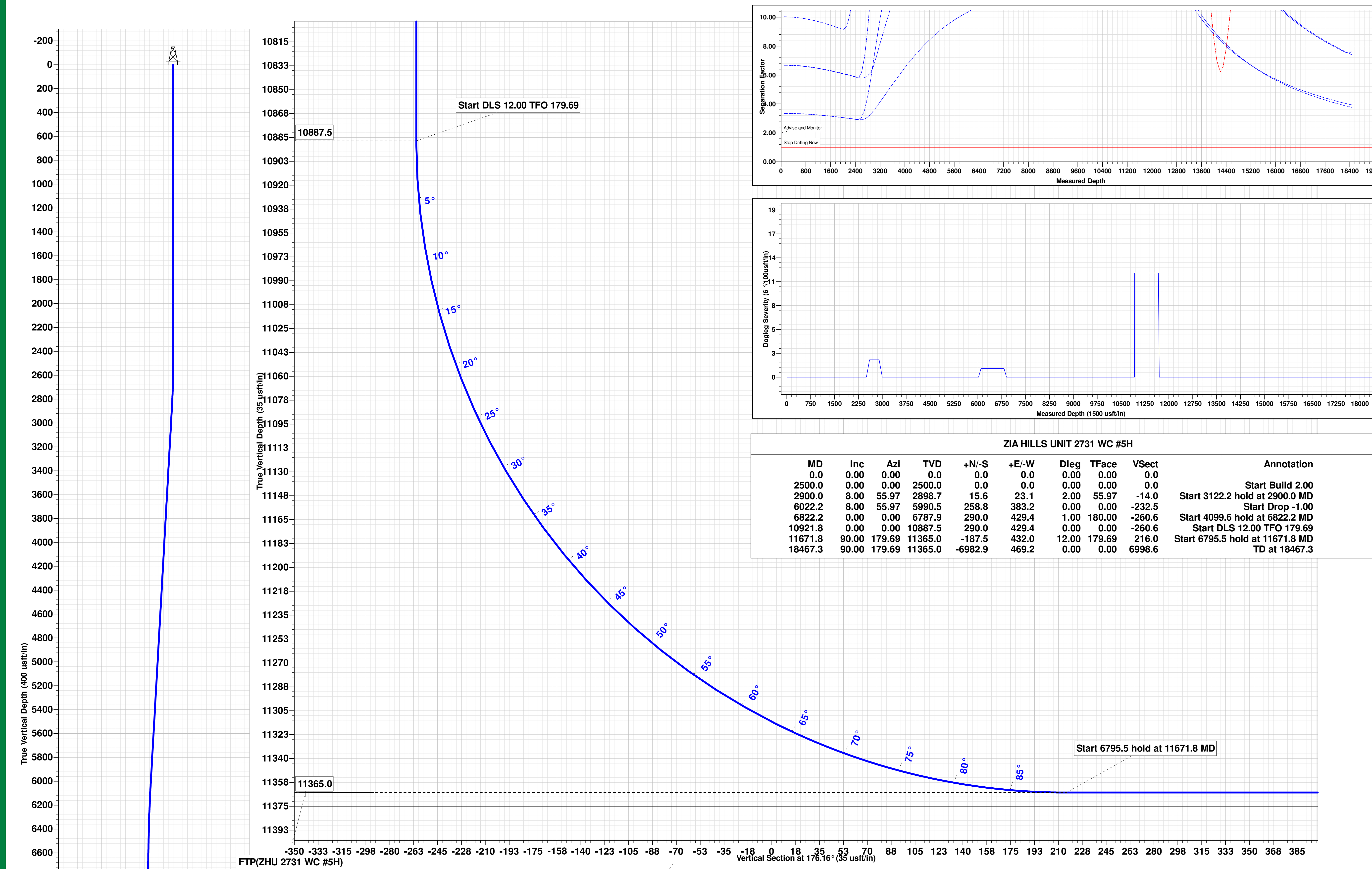
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP(ZHU 2731 WC #5H)	11365.0	371.5	428.4	371611.66	674914.41	32° 1' 13.508 N	103° 46' 8.265 W
LTP(ZHU 2731 WC #5H)	11365.0	-6932.9	468.9	364307.25	674954.95	32° 0' 1.220 N	103° 46' 8.237 W
PBHL(ZHU 2731 WC #5H)	11365.0	-6982.9	469.2	364257.25	674955.22	32° 0' 0.725 N	103° 46' 8.237 W

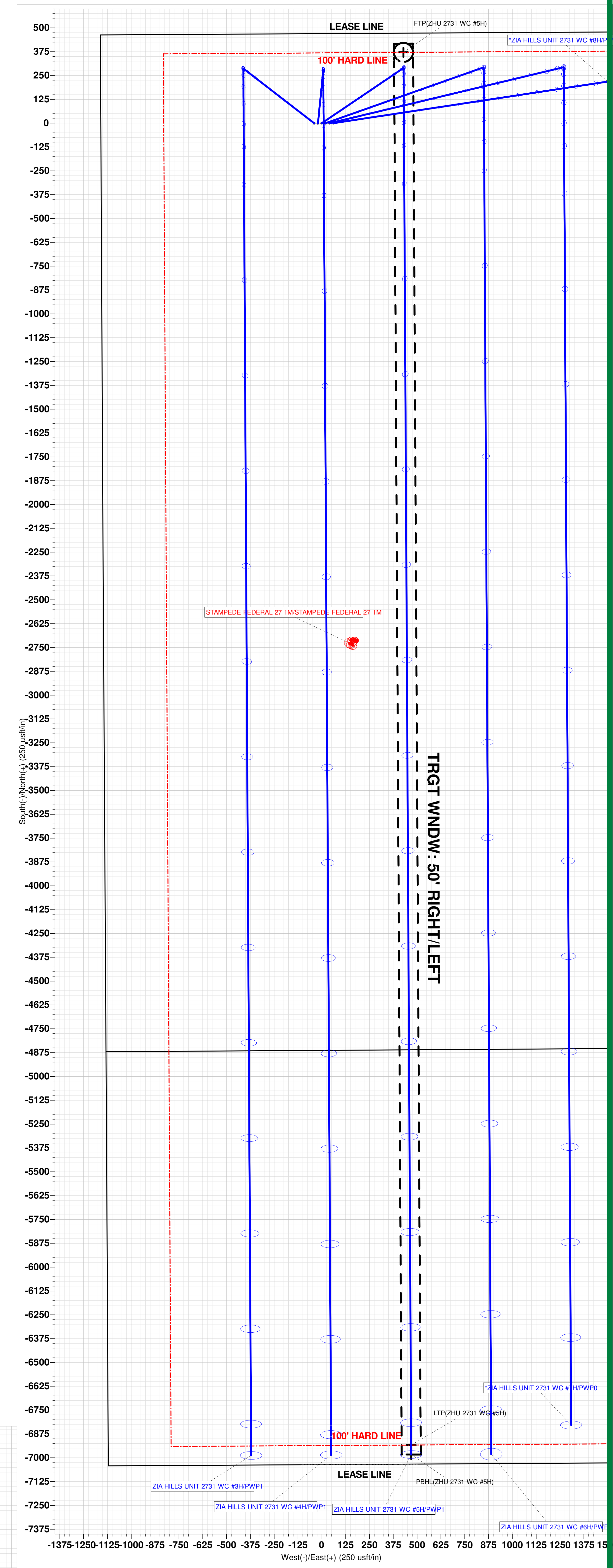
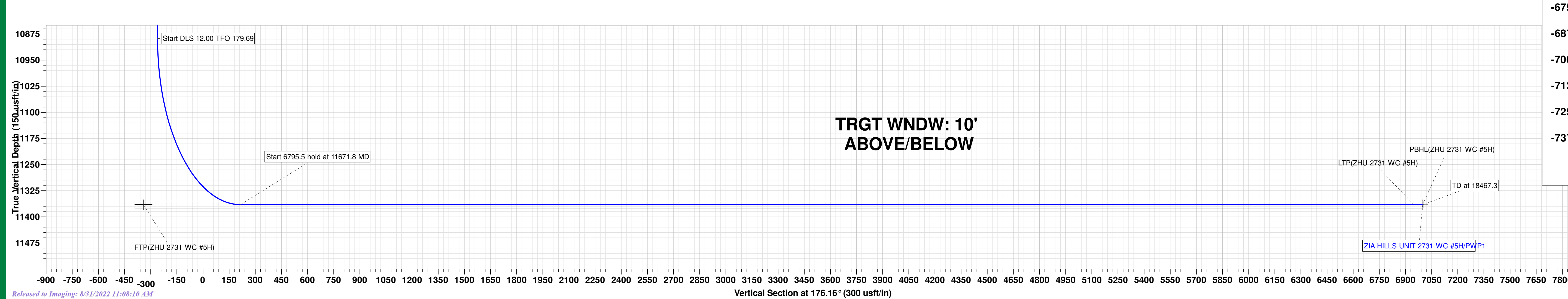
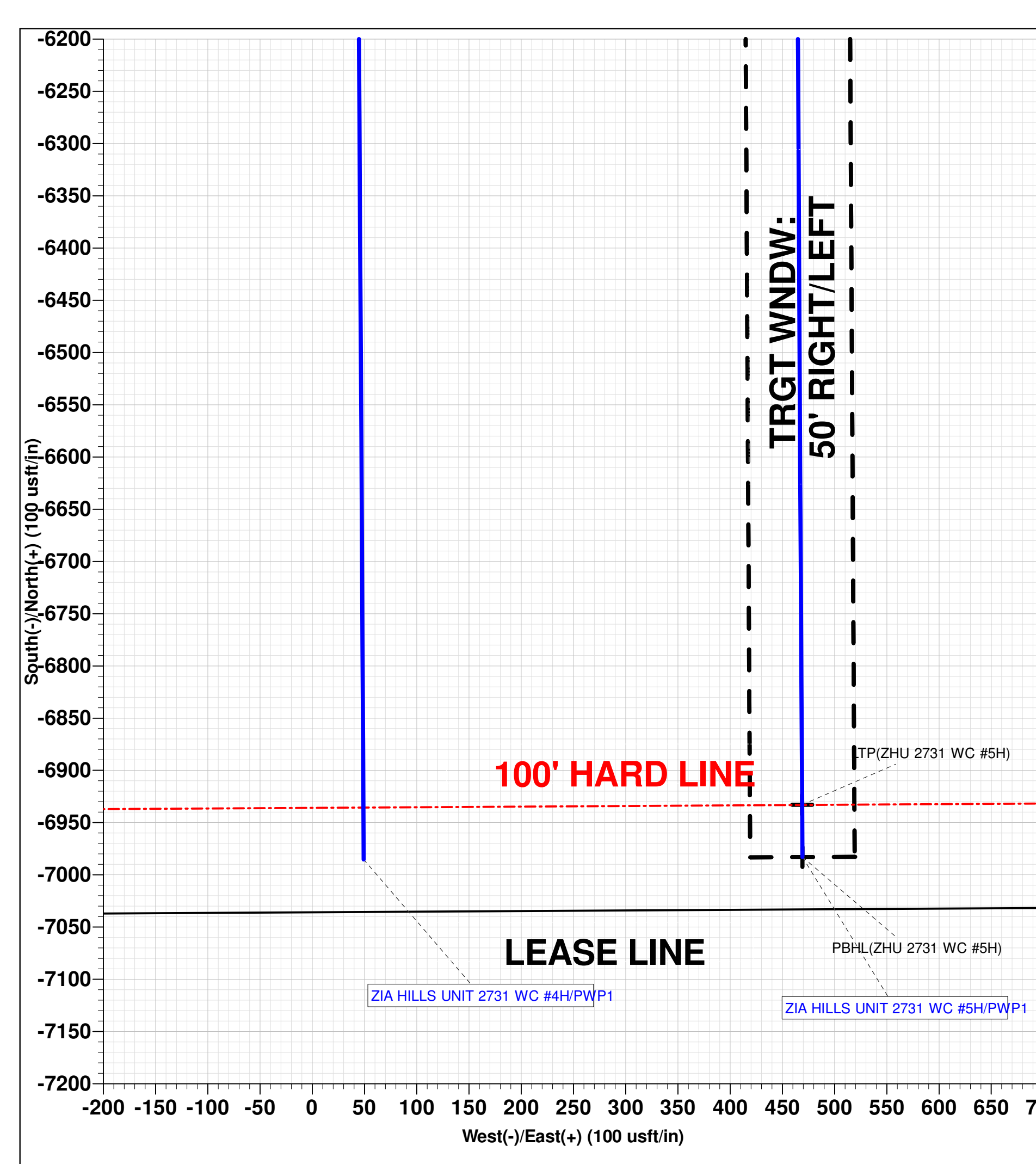
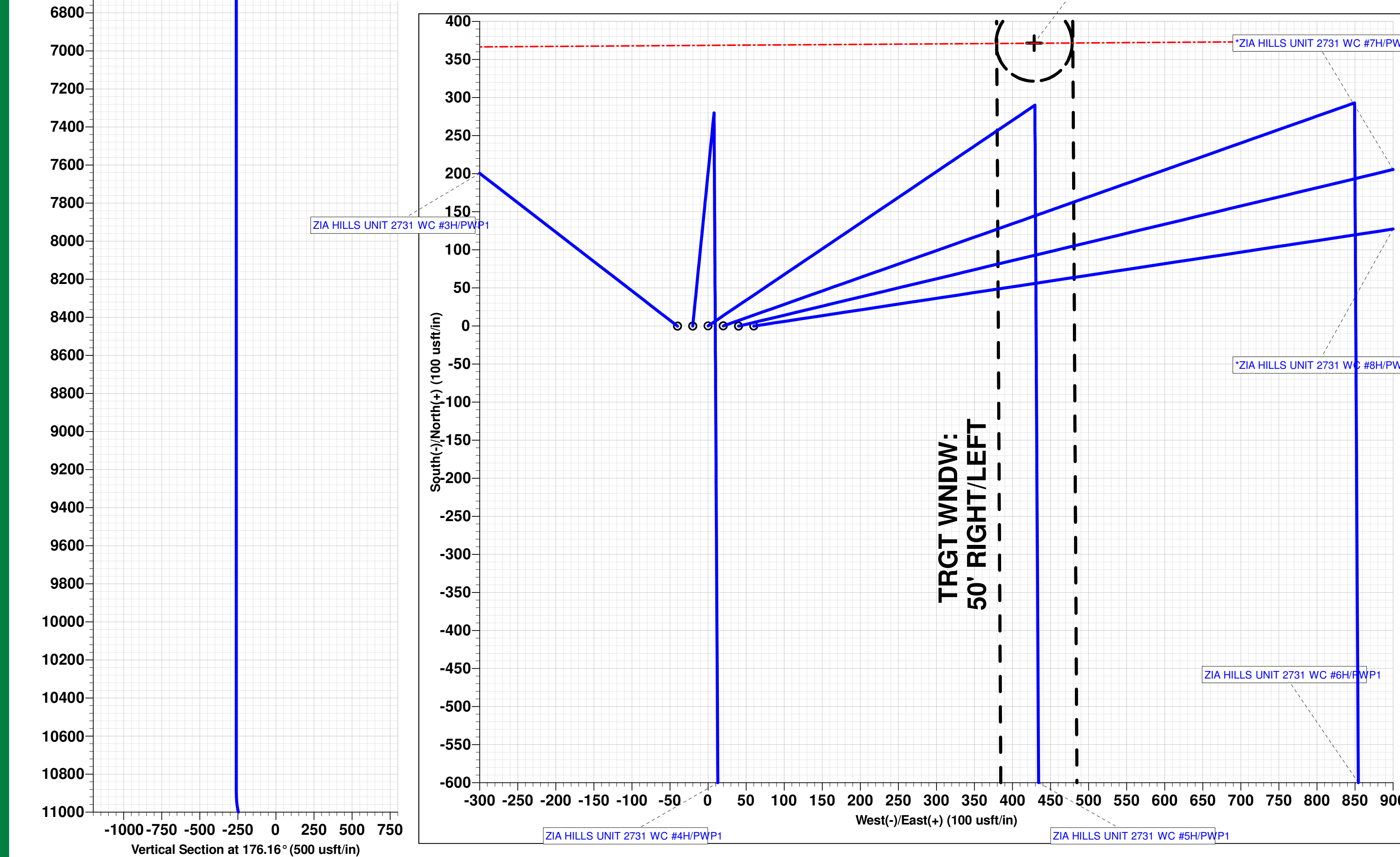


Azimuths to Grid North
True North: -0.30°
Magnetic North: 6.20°

Magnetic Field
Strength: 47449.2nT
Dip Angle: 59.58°
Date: 2/3/2022
Model: BGGM2021

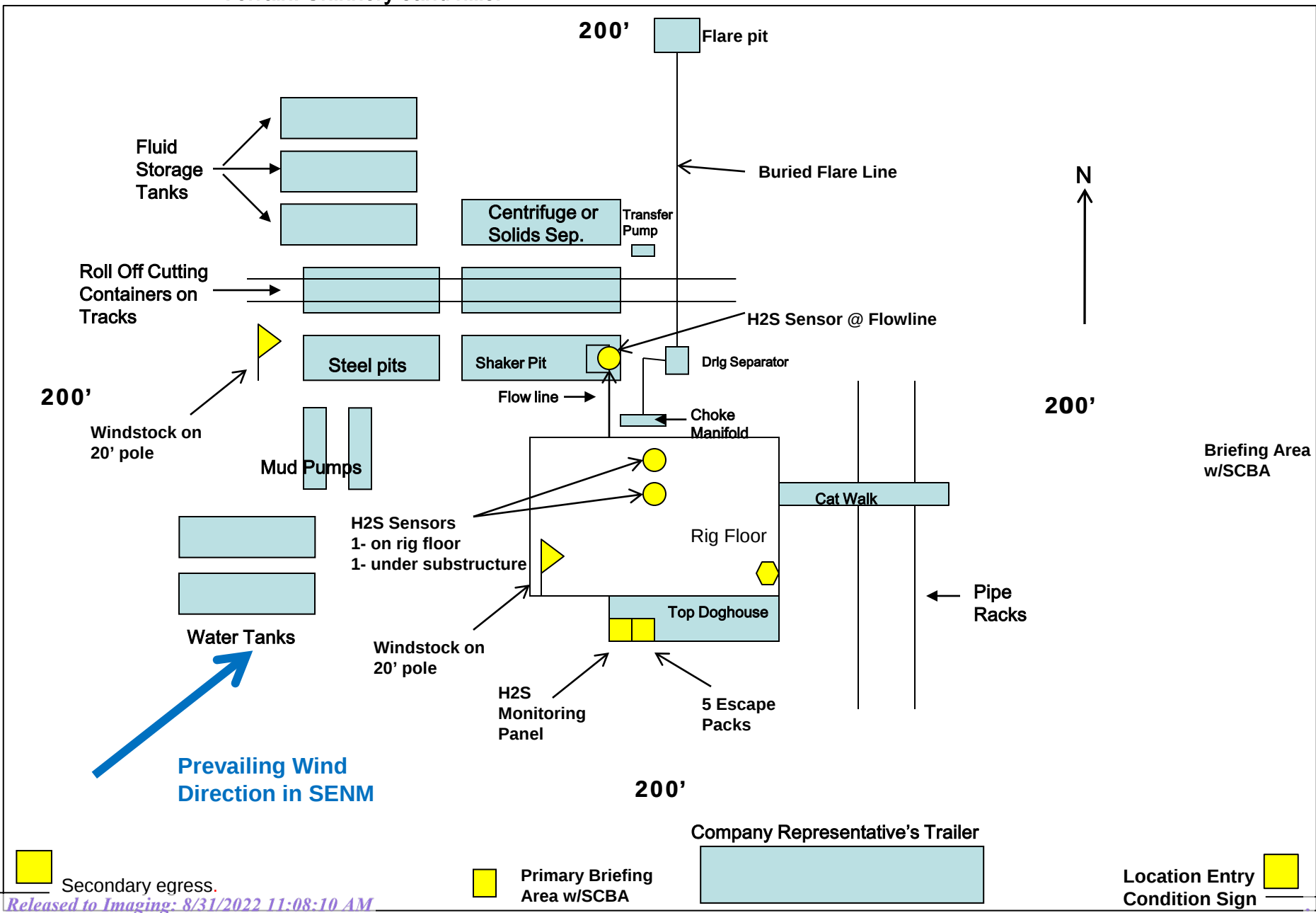


MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2900.0	8.00	55.97	2898.7	15.6	23.1	2.00	55.97	-14.0	Start 3122.2 hold at 2900.0 MD
6022.2	8.00	55.97	5990.5	258.8	363.2	0.00	0.00	-232.5	Start Drop -1.00
6822.2	0.00	0.00	6787.9	290.0	429.4	1.00	180.00	-260.6	Start 4099.6 hold at 6822.2 MD
10821.8	0.00	0.00	10887.5	290.0	429.4	0.00	0.00	-260.6	Start DLS 12.00 TFO 179.69
11671.8	90.00	179.69	11365.0	-187.5	432.0	12.00	179.69	216.0	Start 6795.5 hold at 11671.8 MD
18467.3	90.00	179.69	11365.0	-6982.9	469.2	0.00	0.00	6998.6	TD at 18467.3



COG Operating LLC
H₂S Equipment Schematic
Terrain: Shinnery sand hills.

Well pad will be 400' x 400'
with cellar in center of pad



COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- a. The hazards and characteristics of hydrogen sulfide (H₂S).
- b. The proper use and maintenance of personal protective equipment and life support systems.
- c. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- d. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- a. The effects of H₂S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- b. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- c. The contents and requirements of the H₂S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S. If H₂S greater than 100 ppm is encountered in the gas stream we will shut in and install H₂S equipment.

- a. Well Control Equipment:
 - Flare line.
 - Choke manifold with remotely operated choke.
 - Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
 - Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.

- b. Protective equipment for essential personnel:
Mark II Surviveair 30-minute units located in the dog house and at briefing areas.
- c. H2S detection and monitoring equipment:
2 - portable H2S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.
- d. Visual warning systems:
Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.
- e. Mud Program:
The mud program has been designed to minimize the volume of H2S circulated to the surface.
- f. Metallurgy:
All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- g. Communication:
Company vehicles equipped with cellular telephone.

COG OPERATING LLC has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore, we do not believe that an H2S contingency plan is necessary.

W A R N I N G

**YOU ARE ENTERING AN H₂S AREA
AUTHORIZED PERSONNEL ONLY**

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED***
- 2. HARD HATS REQUIRED***
- 3. SMOKING IN DESIGNATED AREAS ONLY***
- 4. BE WIND CONSCIOUS AT ALL TIMES***
- 5. CK WITH COG OPERATING LLC FOREMAN AT MAIN OFFICE***

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

EMERGENCY RESPONSE NUMBERS

	<u>OFFICE</u>
STATE POLICE	575-748-9718
EDDY COUNTY SHERIFF	575-746-2701
EMERGENCY MEDICAL SERVICES (AMBULANCE)	911 or 575-746-2701
EDDY COUNTY EMERGENCY MANAGEMENT (HARRY BURGESS)	575-887-9511
STATE EMERGENCY RESPONSE CENTER (SERC)	575-476-9620
CARLSBAD POLICE DEPARTMENT	575-885-2111
CARLSBAD FIRE DEPARTMENT	575-885-3125
NEW MEXICO OIL CONSERVATION DIVISION	575-748-1283
INDIAN FIRE & SAFETY	800-530-8693
HALLIBURTON SERVICES	800-844-8451

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 139316

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 139316
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify OCD 24 hours prior to casing & cement	8/31/2022
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	8/31/2022
kpickford	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	8/31/2022
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	8/31/2022
kpickford	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	8/31/2022