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

5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

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

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

8. Lease Name and Well No.

2. Name of Operator

9. API Well No.
30-015-49934

3a. Address	3b. Phone No. *(include area code)*	10. Field and Pool, or Exploratory

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.

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 08/19/2022

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	2 Pool Code	3 Pool Name
30-015- 49934	98081	Zia Hills; Wolfcamp

4 Property Code	5 Property Name	6 Well Number
333233	ZIA HILLS UNIT 2731 WC	11H

7 OGRID No.	8 Operator Name	9 Elevation
217817	CONOCOPHILLIPS COMPANY	3145.88'

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
A	27	26-S	31-E		672'	NORTH	565'	EAST	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 1	34	26-S	31-E		50'	SOUTH	1170'	EAST	EDDY

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

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.

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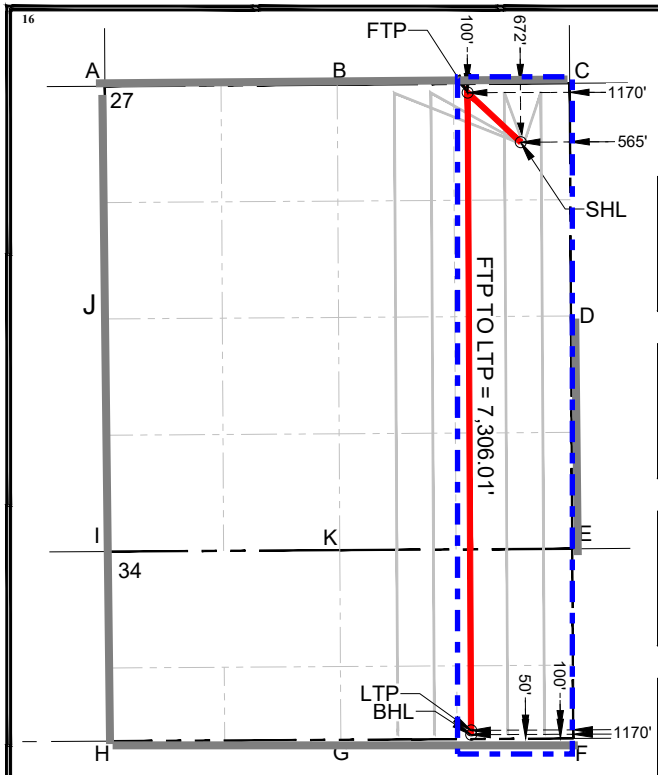


SURFACE HOLE LOCATION (SHL)
NEW MEXICO EAST - NAD 83
X=719275.00 LAT.= 32.01898126° N
Y=371117.01 LONG.= -103.75920524° W
672' FNL, 565' FEL - SECTION 27

FIRST TAKE POINT (FTP)
NEW MEXICO EAST - NAD 83
X=718666.99 LAT.= 32.02055147° N
Y=371685.00 LONG.= -103.76115723° W
100' FNL, 1170' FEL - SECTION 27

LAST TAKE POINT (LTP)
NEW MEXICO EAST - NAD 83
X=718706.18 LAT.= 32.00046797° N
Y=364379.10 LONG.= -103.76115558° W
100' FSL, 1170' FEL - SECTION 34

BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST - NAD 83
X=718706.44 LAT.= 32.00033052° N
Y=364329.10 LONG.= -103.76115558° W
50' FSL, 1170' FEL - SECTION 34

CORNER DATA
NEW MEXICO EAST - NAD 83
A - FOUND 2" IRON PIPE W/ CAP N:371758.51' E:714510.80'
B - FOUND 1" IRON PIPE N:371775.82' E:717172.66'
C - FOUND 2" IRON PIPE N:371792.19' E:719836.44'
D - FOUND 1" IRON PIPE N:369126.08' E:719850.64'
E - FOUND 2" IRON PIPE W/ CAP N:366459.43' E:719865.18'
F - FOUND 2" IRON PIPE W/ CAP N:364285.74' E:719876.69'
G - FOUND 1" IRON PIPE W/ CAP N:364270.43' E:717214.17'
H - FOUND 2" IRON PIPE W/ CAP N:364255.13' E:714552.68'
I - FOUND 2" IRON PIPE W/ CAP N:366427.19' E:714540.78'
J - FOUND 1" IRON PIPE N:369092.82' E:714524.92'
K - FOUND 1" IRON PIPE N:366443.66' E:717202.29'

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 4/4/2022
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:

MARK J. MURRAY NEW MEXICO 12177 REGISTERED PROFESSIONAL SURVEYOR

3/8/2022
Certificate Number

Additional Operator Remarks

Location of Well

0. SHL: NENE / 672 FNL / 545 FEL / TWSP: 26S / RANGE: 31E / SECTION: 27 / LAT: 32.018981 / LONG: -103.759205 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 100 FNL / 1170 FEL / TWSP: 26S / RANGE: 31E / SECTION: 27 / LAT: 32.020551 / LONG: -103.761157 (TVD: 11226 feet, MD: 11306 feet)

BHL: LOT 1 / 50 FSL / 1170 FEL / TWSP: 26S / RANGE: 31E / SECTION: 34 / LAT: 32.00033 / LONG: -103.761155 (TVD: 11395 feet, MD: 18518 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:	Eddy County, New Mexico

WELL NAME & NO.:	Zia Hills Unit 2731 WC 11H
SURFACE HOLE FOOTAGE:	672'/N & 545'/E
BOTTOM HOLE FOOTAGE	50'/S & 1170'/E

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 intergrity 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 intergrity 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 080122

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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 9H	30-015-	A-27-26S-31E	672 FNL & 605 FEL	± 818	± 3209	± 1907
Zia Hills Unit 2731 WC 10H	30-015-	A-27-26S-31E	672 FNL & 585 FEL	± 818	± 3209	± 1907
Zia Hills Unit 2731 WC 11H	30-015-	A-27-26S-31E	672 FNL & 565 FEL	± 818	± 3209	± 1907
Zia Hills Unit 2731 WC 12H	30-015-	A-27-26S-31E	672 FNL & 545 FEL	± 818	± 3209	± 1907
Zia Hills Unit 2731 WC 13H	30-015-	A-27-26S-31E	672 FNL & 525 FEL	± 818	± 3209	± 1907

IV. Central Delivery Point Name: Zia Hills Unit 2731 WC West Facility NE/NE 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	Pending	± 1/18/2023	± 25 days from spud	TBD	TBD	TBD
9H, 10H, 11H, 12H, 13H						

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:	Stan Wagner
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 11H

1. Geologic Formations

TVD of target	11,395' EOL	Pilot hole depth	NA
MD at TD:	18,518'	Deepest expected fresh water:	250'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	818	Water	
Top of Salt	1128	Salt	
Base of Salt	3800	Salt	
Lamar	4000	Salt Water	
Bell Canyon	4031	Salt Water	
Cherry Canyon	4989	Oil/Gas	
Brushy Canyon	6268	Oil/Gas	
Bone spring	8010	Oil/Gas	
1st Bone Spring Sand	9027	Oil/Gas	
2nd Bone Spring Sand	9618	Oil/Gas	
3rd Bone Spring Carbonate	10166	Oil/Gas	
3rd Bone Spring Sand	10854	Oil/Gas	
Wolfcamp	11240	Oil/Gas	
Wolfcamp A	11459	Target	
Wolfcamp B	11779	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight	Grade	Conn.	SF	SF Burst	SF	SF
	From	To		(lbs)			Collapse		Body	Joint
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	2.24
8.750"	8000	10800	7.625"	29.7	P110	Wedge 513	1.39	1.55	2.93	1.76
6.75"	0	10600	5.5"	23	P110	TXP BTC	1.96	2.32	2.78	2.78
6.75"	10600	18,518	5.5"	23	P110	Wedge 441	1.96	2.32	2.78	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 11H

	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 3rd 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 2nd 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 11H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H_20 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	453	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl2
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl2
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	492	12.7	2	10.7	72	Lead: 50:50:10 H Blend
	747	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%
1st Intermediate	0’	50%
Production	7,500'	35% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 2731 WC 11H

4. Pressure Control Equipment

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

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
9-7/8”	13-5/8”	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 11H

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 11H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7410 psi at 11395' 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 (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
N	H2S is present
Y	H2S Plan attached

8. Other Facets of Operation

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

x	H2S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

COG Operating LLC

Rig Plat & Closed Loop Equipment Diagram

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

Flare Lines will be from both Choke Manifold & Separator to edge of location.

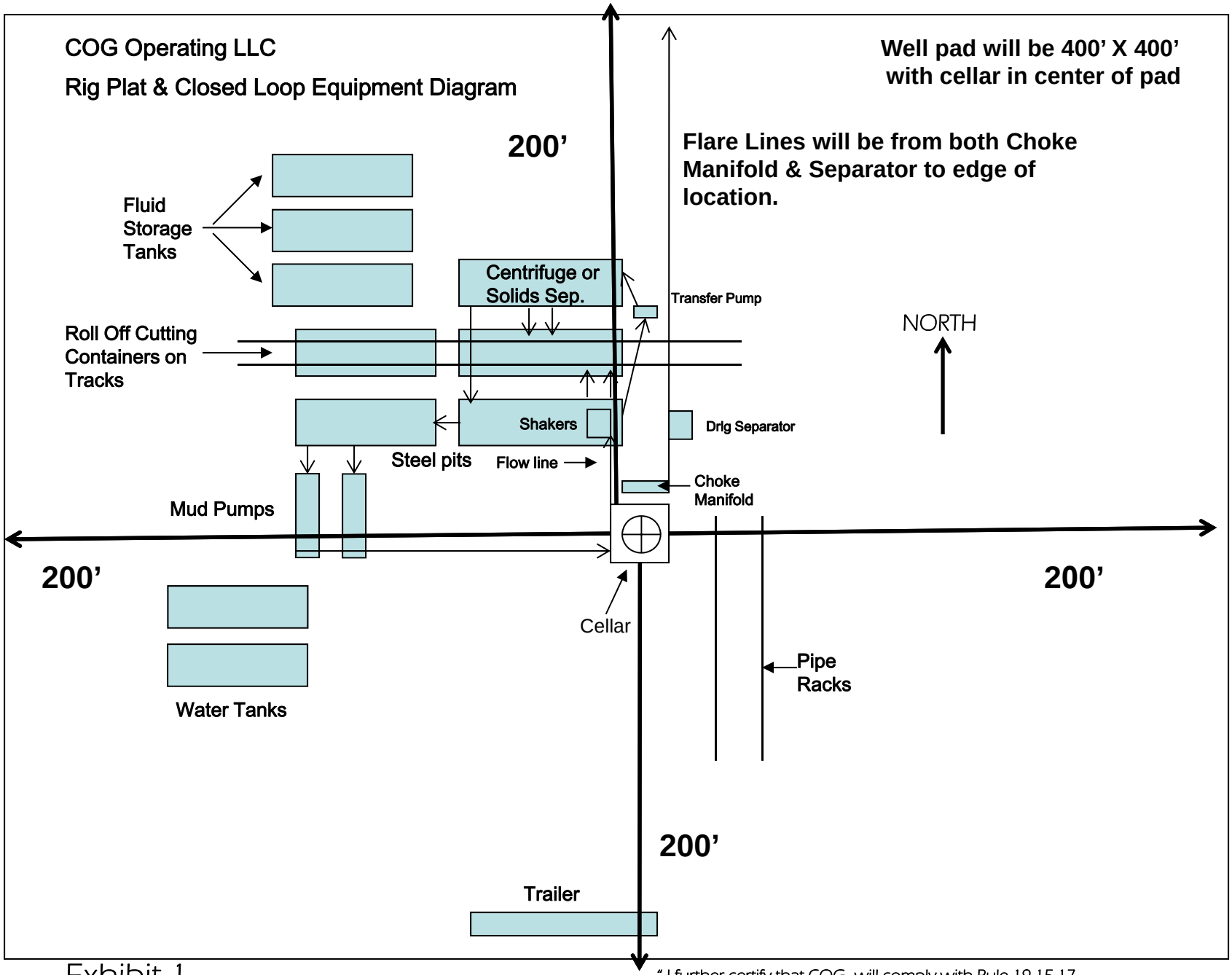


Exhibit 1

" 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 #11H

OWB
PWP1

Anticollision Report

28 March, 2022

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 2731 WC #11H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	**MD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #11H	**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	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,000.0usft	**Error Surface:**	Pedal Curve
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Survey Tool Program **Date** 3/28/2022

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	10,970.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
10,970.0	18,518.3	PWP1 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR 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 #10H - OWB - PWP1	2,000.0	1,999.6	20.0	13.4	3.042	CC, ES, SF
ZIA HILLS UNIT 2731 WC #12H - OWB - PWP1	2,000.0	2,000.0	20.0	13.4	3.036	CC, ES, SF
ZIA HILLS UNIT 2731 WC #13H - OWB - PWP1	2,000.0	1,999.9	39.9	33.3	6.058	CC, ES, SF
ZIA HILLS UNIT 2731 WC #9H - OWB - PWP1	2,000.0	1,999.7	39.9	33.3	6.058	CC, ES
ZIA HILLS UNIT 2731 WC #9H - OWB - PWP1	2,100.0	2,098.4	40.2	33.5	6.050	SF

TD 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 #10H - OWB - PWP1	18,518.5	18,723.0	452.9	326.3	3.578	
ZIA HILLS UNIT 2731 WC #12H - OWB - PWP1	18,518.5	18,672.6	453.5	327.4	3.596	
ZIA HILLS UNIT 2731 WC #13H - OWB - PWP1	18,518.5	18,499.5	840.0	713.3	6.630	
ZIA HILLS UNIT 2731 WC #9H - OWB - PWP1	18,518.5	18,520.3	840.0	713.1	6.620	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 2731 WC #11H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	**MD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #11H	**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 #10H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-Standard Keeper 104, 11180-MWD+IFR1+FDIR — **Rule Assigned:** — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset 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
0.0	0.0	0.0	0.0	3.0	3.0	-90.11	0.0	-20.0	20.0				
100.0	100.0	99.6	99.6	3.0	3.0	-90.11	0.0	-20.0	20.0	14.0	6.00	3.337	
200.0	200.0	199.6	199.6	3.0	3.0	-90.11	0.0	-20.0	20.0	14.0	6.00	3.335	
300.0	300.0	299.6	299.6	3.0	3.0	-90.11	0.0	-20.0	20.0	14.0	6.01	3.332	
400.0	400.0	399.6	399.6	3.0	3.0	-90.11	0.0	-20.0	20.0	14.0	6.02	3.327	
500.0	500.0	499.6	499.6	3.1	3.1	-90.11	0.0	-20.0	20.0	14.0	6.03	3.320	
600.0	600.0	599.6	599.6	3.1	3.1	-90.11	0.0	-20.0	20.0	14.0	6.05	3.311	
700.0	700.0	699.6	699.6	3.1	3.1	-90.11	0.0	-20.0	20.0	14.0	6.07	3.301	
800.0	800.0	799.6	799.6	3.2	3.2	-90.11	0.0	-20.0	20.0	13.9	6.09	3.289	
900.0	900.0	899.6	899.6	3.2	3.2	-90.11	0.0	-20.0	20.0	13.9	6.11	3.275	
1,000.0	1,000.0	999.6	999.6	3.2	3.2	-90.11	0.0	-20.0	20.0	13.9	6.14	3.260	
1,100.0	1,100.0	1,099.6	1,099.6	3.3	3.3	-90.11	0.0	-20.0	20.0	13.8	6.17	3.244	
1,200.0	1,200.0	1,199.6	1,199.6	3.4	3.4	-90.11	0.0	-20.0	20.0	13.8	6.21	3.226	
1,300.0	1,300.0	1,299.6	1,299.6	3.4	3.4	-90.11	0.0	-20.0	20.0	13.8	6.24	3.207	
1,400.0	1,400.0	1,399.6	1,399.6	3.5	3.5	-90.11	0.0	-20.0	20.0	13.7	6.28	3.186	
1,500.0	1,500.0	1,499.6	1,499.6	3.5	3.5	-90.11	0.0	-20.0	20.0	13.7	6.33	3.165	
1,600.0	1,600.0	1,599.6	1,599.6	3.6	3.6	-90.11	0.0	-20.0	20.0	13.6	6.37	3.142	
1,700.0	1,700.0	1,699.6	1,699.6	3.7	3.7	-90.11	0.0	-20.0	20.0	13.6	6.42	3.119	
1,800.0	1,800.0	1,799.6	1,799.6	3.8	3.8	-90.11	0.0	-20.0	20.0	13.5	6.47	3.094	
1,900.0	1,900.0	1,899.6	1,899.6	3.9	3.9	-90.11	0.0	-20.0	20.0	13.5	6.52	3.069	
2,000.0	2,000.0	1,999.6	1,999.6	3.9	3.9	-90.11	0.0	-20.0	20.0	13.4	6.58	3.042	CC, ES, SF
2,100.0	2,100.0	2,099.0	2,099.0	4.0	4.0	-39.86	0.7	-21.6	20.2	13.6	6.64	3.046	
2,200.0	2,199.8	2,198.3	2,198.2	4.1	4.1	-42.67	2.9	-26.2	20.9	14.2	6.69	3.117	
2,300.0	2,299.5	2,297.7	2,297.1	4.1	4.1	-46.96	6.6	-34.0	22.1	15.3	6.76	3.264	
2,400.0	2,398.7	2,397.0	2,395.7	4.2	4.2	-52.19	11.8	-44.8	23.9	17.1	6.84	3.497	
2,500.0	2,497.7	2,496.3	2,493.8	4.3	4.2	-54.73	18.4	-58.7	27.5	20.6	6.91	3.981	
2,600.0	2,596.8	2,596.1	2,592.1	4.4	4.3	-54.44	25.8	-74.4	32.5	25.5	6.97	4.664	
2,700.0	2,695.8	2,696.0	2,690.5	4.4	4.4	-54.23	33.3	-90.0	37.5	30.5	7.04	5.329	
2,800.0	2,794.8	2,795.9	2,788.8	4.5	4.4	-54.06	40.7	-105.7	42.5	35.4	7.12	5.974	
2,900.0	2,893.8	2,895.7	2,887.2	4.6	4.5	-53.93	48.2	-121.4	47.5	40.3	7.20	6.599	
3,000.0	2,992.9	2,995.6	2,985.5	4.7	4.6	-53.83	55.6	-137.0	52.6	45.3	7.30	7.201	
3,100.0	3,091.9	3,095.5	3,083.9	4.8	4.7	-53.74	63.1	-152.7	57.6	50.2	7.40	7.781	
3,200.0	3,190.9	3,195.4	3,182.3	4.9	4.8	-53.67	70.6	-168.3	62.6	55.1	7.51	8.338	
3,300.0	3,289.9	3,295.2	3,280.6	5.0	4.8	-53.61	78.0	-184.0	67.6	60.0	7.62	8.872	
3,400.0	3,389.0	3,395.1	3,379.0	5.0	4.9	-53.55	85.5	-199.7	72.6	64.9	7.74	9.382	
3,500.0	3,488.0	3,495.0	3,477.3	5.1	5.0	-53.51	92.9	-215.3	77.6	69.8	7.87	9.868	
3,600.0	3,587.0	3,594.9	3,575.7	5.2	5.1	-53.46	100.4	-231.0	82.6	74.6	8.00	10.332	
3,700.0	3,686.0	3,694.7	3,674.0	5.3	5.2	-53.43	107.8	-246.6	87.6	79.5	8.14	10.772	
3,800.0	3,785.1	3,794.6	3,772.4	5.4	5.3	-53.40	115.3	-262.3	92.7	84.4	8.28	11.190	
3,900.0	3,884.1	3,894.5	3,870.8	5.5	5.4	-53.37	122.7	-278.0	97.7	89.2	8.43	11.586	
4,000.0	3,983.1	3,994.3	3,969.1	5.6	5.5	-53.34	130.2	-293.6	102.7	94.1	8.58	11.961	
4,100.0	4,082.2	4,094.2	4,067.5	5.7	5.6	-53.32	137.6	-309.3	107.7	98.9	8.75	12.315	
4,200.0	4,181.2	4,194.1	4,165.8	5.8	5.7	-53.29	145.1	-324.9	112.7	103.8	8.91	12.649	
4,300.0	4,280.2	4,294.0	4,264.2	5.9	5.8	-53.27	152.5	-340.6	117.7	108.6	9.08	12.963	
4,400.0	4,379.2	4,393.8	4,362.5	6.1	5.9	-53.26	160.0	-356.3	122.7	113.5	9.26	13.260	
4,500.0	4,478.3	4,493.7	4,460.9	6.2	6.0	-53.24	167.4	-371.9	127.7	118.3	9.44	13.539	
4,600.0	4,577.3	4,593.6	4,559.3	6.3	6.1	-53.22	174.9	-387.6	132.8	123.1	9.62	13.800	
4,700.0	4,676.3	4,693.5	4,657.6	6.4	6.3	-53.21	182.4	-403.2	137.8	128.0	9.81	14.046	
4,800.0	4,775.3	4,793.3	4,756.0	6.5	6.4	-53.20	189.8	-418.9	142.8	132.8	10.00	14.277	
4,900.0	4,874.4	4,893.2	4,854.3	6.6	6.5	-53.18	197.3	-434.6	147.8	137.6	10.20	14.493	
5,000.0	4,973.4	4,993.1	4,952.7	6.7	6.6	-53.17	204.7	-450.2	152.8	142.4	10.40	14.695	
5,100.0	5,072.4	5,093.0	5,051.0	6.8	6.7	-53.16	212.2	-465.9	157.8	147.2	10.60	14.884	

CC - Min centre to center distance or covergent 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 #11H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	**MD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #11H	**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 #10H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-Standard Keeper 104, 11180-MWD+IFR1+FDIR — **Rule Assigned:** — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset 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
5,200.0	5,171.5	5,192.8	5,149.4	6.9	6.8	-53.15	219.6	-481.5	162.8	152.0	10.81	15.061	
5,300.0	5,270.5	5,292.7	5,247.8	7.0	6.9	-53.14	227.1	-497.2	167.8	156.8	11.02	15.226	
5,400.0	5,369.5	5,392.6	5,346.1	7.2	7.1	-53.13	234.5	-512.9	172.9	161.6	11.24	15.380	
5,500.0	5,468.5	5,492.5	5,444.5	7.3	7.2	-53.12	242.0	-528.5	177.9	166.4	11.46	15.524	
5,600.0	5,567.6	5,592.3	5,542.8	7.4	7.3	-53.12	249.4	-544.2	182.9	171.2	11.68	15.658	
5,700.0	5,666.6	5,692.2	5,641.2	7.5	7.4	-53.11	256.9	-559.8	187.9	176.0	11.91	15.783	
5,800.0	5,765.6	5,792.1	5,739.5	7.6	7.6	-53.10	264.3	-575.5	192.9	180.8	12.13	15.898	
5,900.0	5,864.6	5,892.0	5,837.9	7.7	7.7	-53.09	271.8	-591.2	197.9	185.6	12.37	16.006	
6,000.0	5,963.7	5,991.8	5,936.3	7.9	7.8	-53.09	279.2	-606.8	202.9	190.3	12.60	16.106	
6,100.0	6,062.7	6,091.7	6,034.6	8.0	7.9	-53.08	286.7	-622.5	208.0	195.1	12.84	16.198	
6,200.0	6,161.7	6,191.6	6,133.0	8.1	8.1	-53.08	294.2	-638.1	213.0	199.9	13.08	16.283	
6,300.0	6,260.7	6,291.5	6,231.3	8.2	8.2	-53.07	301.6	-653.8	218.0	204.7	13.32	16.362	
6,400.0	6,359.8	6,391.3	6,329.7	8.3	8.3	-53.06	309.1	-669.5	223.0	209.4	13.57	16.435	
6,500.0	6,458.8	6,491.2	6,428.0	8.5	8.5	-53.06	316.5	-685.1	228.0	214.2	13.82	16.502	
6,600.0	6,557.8	6,591.1	6,526.4	8.6	8.6	-53.05	324.0	-700.8	233.0	218.9	14.07	16.564	
6,700.0	6,656.9	6,691.0	6,624.7	8.7	8.7	-53.05	331.4	-716.4	238.0	223.7	14.32	16.620	
6,800.0	6,755.9	6,790.8	6,723.1	8.8	8.9	-53.05	338.9	-732.1	243.0	228.5	14.58	16.672	
6,900.0	6,854.9	6,890.7	6,821.5	9.0	9.0	-53.04	346.3	-747.8	248.1	233.2	14.84	16.719	
7,000.0	6,953.9	6,990.6	6,919.8	9.1	9.2	-53.04	353.8	-763.4	253.1	238.0	15.10	16.761	
7,100.0	7,053.0	7,090.5	7,018.2	9.2	9.3	-53.03	361.2	-779.1	258.1	242.7	15.36	16.800	
7,200.0	7,152.0	7,190.3	7,116.5	9.3	9.4	-53.03	368.7	-794.7	263.1	247.5	15.63	16.835	
7,300.0	7,251.0	7,290.2	7,214.9	9.5	9.6	-53.03	376.1	-810.4	268.1	252.2	15.90	16.866	
7,400.8	7,350.9	7,390.9	7,314.1	9.6	9.7	-53.02	383.7	-826.2	273.2	257.0	16.17	16.894	
7,500.0	7,449.2	7,489.9	7,411.6	9.7	9.9	-52.92	391.0	-841.7	278.7	262.2	16.44	16.952	
7,600.0	7,548.5	7,589.7	7,509.8	9.8	10.0	-52.55	398.5	-857.4	285.2	268.5	16.70	17.075	
7,700.0	7,648.1	7,689.3	7,608.0	10.0	10.2	-51.95	405.9	-873.0	292.9	275.9	16.97	17.262	
7,800.0	7,747.8	7,788.8	7,705.9	10.1	10.4	-51.12	413.4	-888.6	301.7	284.5	17.23	17.511	
7,900.0	7,847.6	7,888.2	7,803.8	10.2	10.5	-50.11	420.8	-904.2	311.7	294.2	17.49	17.824	
8,000.0	7,947.5	7,987.3	7,901.4	10.3	10.7	-48.94	428.2	-919.7	322.9	305.2	17.74	18.205	
8,100.0	8,047.4	8,086.2	7,998.8	10.4	10.8	-47.64	435.5	-935.2	335.5	317.5	17.99	18.652	
8,200.8	8,148.3	8,185.9	8,097.0	10.5	11.0	-97.48	443.0	-950.8	349.5	331.3	18.22	19.181	
8,300.0	8,247.4	8,289.2	8,198.9	10.6	11.2	-96.02	450.3	-966.1	363.3	344.9	18.43	19.716	
8,400.0	8,347.4	8,394.0	8,302.5	10.8	11.3	-94.79	456.8	-979.9	375.9	357.2	18.63	20.172	
8,500.0	8,447.4	8,499.2	8,406.9	10.9	11.5	-93.78	462.6	-992.0	387.0	368.1	18.84	20.544	
8,600.0	8,547.4	8,605.0	8,512.0	11.0	11.6	-92.97	467.6	-1,002.5	396.6	377.5	19.04	20.831	
8,700.0	8,647.4	8,711.1	8,617.7	11.1	11.7	-92.31	471.7	-1,011.2	404.6	385.4	19.24	21.031	
8,800.0	8,747.4	8,817.6	8,723.9	11.2	11.8	-91.81	475.0	-1,018.2	411.0	391.6	19.44	21.145	
8,900.0	8,847.4	8,924.3	8,830.5	11.3	11.9	-91.45	477.5	-1,023.4	415.8	396.2	19.63	21.179	
9,000.0	8,947.4	9,031.2	8,937.3	11.4	12.0	-91.21	479.1	-1,026.8	419.0	399.2	19.83	21.129	
9,100.0	9,047.4	9,138.2	9,044.3	11.5	12.1	-91.10	479.9	-1,028.4	420.5	400.5	20.02	21.005	
9,200.0	9,147.4	9,240.9	9,147.0	11.7	12.2	-91.10	480.0	-1,028.5	420.6	400.5	20.14	20.887	
9,300.0	9,247.4	9,340.9	9,247.0	11.8	12.3	-91.10	480.0	-1,028.5	420.6	400.4	20.22	20.799	
9,400.0	9,347.4	9,440.9	9,347.0	11.9	12.4	-91.10	480.0	-1,028.5	420.6	400.3	20.31	20.710	
9,500.0	9,447.4	9,540.9	9,447.0	12.0	12.5	-91.10	480.0	-1,028.5	420.6	400.2	20.40	20.622	
9,600.0	9,547.4	9,640.9	9,547.0	12.1	12.6	-91.10	480.0	-1,028.5	420.6	400.1	20.48	20.534	
9,700.0	9,647.4	9,740.9	9,647.0	12.2	12.7	-91.10	480.0	-1,028.5	420.6	400.0	20.57	20.446	
9,800.0	9,747.4	9,840.9	9,747.0	12.3	12.8	-91.10	480.0	-1,028.5	420.6	399.9	20.66	20.358	
9,900.0	9,847.4	9,940.9	9,847.0	12.5	12.9	-91.10	480.0	-1,028.5	420.6	399.8	20.75	20.271	
10,000.0	9,947.4	10,040.9	9,947.0	12.6	13.0	-91.10	480.0	-1,028.5	420.6	399.8	20.84	20.184	
10,100.0	10,047.4	10,140.9	10,047.0	12.7	13.1	-91.10	480.0	-1,028.5	420.6	399.7	20.93	20.096	
10,200.0	10,147.4	10,240.9	10,147.0	12.8	13.2	-91.10	480.0	-1,028.5	420.6	399.6	21.02	20.010	
10,300.0	10,247.4	10,340.9	10,247.0	12.9	13.3	-91.10	480.0	-1,028.5	420.6	399.5	21.11	19.923	

CC - Min centre to center distance or covergent 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 #11H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	**MD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #11H	**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 #10H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-Standard Keeper 104, 11180-MWD+IFR1+FDIR — **Rule Assigned:** — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset 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
10,400.0	10,347.4	10,440.9	10,347.0	13.0	13.4	-91.10	480.0	-1,028.5	420.6	399.4	21.20	19.837	
10,500.0	10,447.4	10,540.9	10,447.0	13.2	13.5	-91.10	480.0	-1,028.5	420.6	399.3	21.30	19.751	
10,600.0	10,547.4	10,640.9	10,547.0	13.3	13.6	-91.10	480.0	-1,028.5	420.6	399.2	21.39	19.665	
10,700.0	10,647.4	10,740.9	10,647.0	13.4	13.7	-91.10	480.0	-1,028.5	420.6	399.1	21.48	19.579	
10,800.0	10,747.4	10,840.9	10,747.0	13.5	13.8	-91.10	480.0	-1,028.5	420.6	399.0	21.58	19.494	
10,900.0	10,847.4	10,940.9	10,847.0	13.6	13.9	-91.10	480.0	-1,028.5	420.6	398.9	21.67	19.409	
10,970.1	10,917.5	11,011.0	10,917.1	13.7	14.0	-91.10	480.0	-1,028.5	420.6	398.9	21.72	19.363	
10,975.0	10,922.4	11,015.9	10,922.0	13.7	14.0	89.22	480.0	-1,028.5	420.6	398.9	21.72	19.360	
11,000.0	10,947.4	11,040.9	10,947.0	13.7	14.0	89.34	480.0	-1,028.5	420.6	398.8	21.75	19.339	
11,025.0	10,972.3	11,065.8	10,971.9	13.7	14.0	89.65	480.0	-1,028.5	420.6	398.8	21.79	19.303	
11,044.4	10,991.5	11,085.0	10,991.1	13.7	14.1	90.00	480.0	-1,028.5	420.6	398.7	21.83	19.267	
11,050.0	10,997.1	11,090.6	10,996.7	13.7	14.1	90.12	480.0	-1,028.5	420.6	398.7	21.84	19.255	
11,075.0	11,021.6	11,115.1	11,021.2	13.7	14.1	90.76	480.0	-1,028.5	420.6	398.7	21.91	19.197	
11,100.0	11,045.8	11,139.3	11,045.4	13.7	14.1	91.55	480.0	-1,028.5	420.7	398.7	21.99	19.129	
11,125.0	11,069.7	11,163.2	11,069.3	13.7	14.1	92.47	480.0	-1,028.5	421.0	398.9	22.10	19.053	
11,150.0	11,093.2	11,187.1	11,093.2	13.7	14.1	93.52	479.9	-1,028.5	421.5	399.3	22.21	18.972	
11,175.0	11,116.2	11,212.2	11,118.2	13.7	14.1	94.65	478.9	-1,028.5	422.1	399.8	22.33	18.904	
11,200.0	11,138.7	11,237.7	11,143.7	13.7	14.1	95.77	476.5	-1,028.5	423.0	400.6	22.45	18.843	
11,225.0	11,160.5	11,263.9	11,169.5	13.8	14.1	96.88	472.7	-1,028.5	424.0	401.5	22.57	18.788	
11,250.0	11,181.7	11,290.6	11,195.7	13.8	14.1	97.99	467.3	-1,028.5	425.2	402.6	22.70	18.737	
11,275.0	11,202.1	11,317.9	11,222.1	13.8	14.2	99.09	460.3	-1,028.4	426.6	403.8	22.83	18.688	
11,300.0	11,221.8	11,345.8	11,248.6	13.8	14.2	100.17	451.6	-1,028.4	428.1	405.2	22.97	18.635	
11,325.0	11,240.6	11,374.4	11,275.2	13.8	14.2	101.24	441.1	-1,028.3	429.8	406.6	23.14	18.576	
11,350.0	11,258.6	11,403.8	11,301.8	13.9	14.2	102.28	428.7	-1,028.2	431.5	408.2	23.32	18.506	
11,375.0	11,275.6	11,433.8	11,328.2	13.9	14.2	103.30	414.3	-1,028.2	433.4	409.8	23.53	18.421	
11,400.0	11,291.6	11,464.6	11,354.2	13.9	14.2	104.29	397.8	-1,028.1	435.3	411.5	23.76	18.318	
11,425.0	11,306.7	11,496.2	11,379.7	13.9	14.3	105.24	379.3	-1,028.0	437.2	413.2	24.03	18.196	
11,450.0	11,320.6	11,528.5	11,404.6	14.0	14.3	106.16	358.6	-1,027.9	439.2	414.9	24.33	18.052	
11,475.0	11,333.4	11,561.6	11,428.5	14.0	14.3	107.03	335.7	-1,027.7	441.1	416.5	24.66	17.888	
11,500.0	11,345.1	11,595.5	11,451.3	14.0	14.4	107.85	310.6	-1,027.6	443.1	418.0	25.02	17.708	
11,525.0	11,355.7	11,630.2	11,472.7	14.0	14.4	108.61	283.3	-1,027.4	444.9	419.5	25.40	17.514	
11,550.0	11,365.0	11,665.6	11,492.4	14.1	14.4	109.32	253.9	-1,027.3	446.6	420.8	25.80	17.313	
11,575.0	11,373.1	11,701.8	11,510.3	14.1	14.5	109.95	222.5	-1,027.1	448.2	422.0	26.19	17.112	
11,600.0	11,379.9	11,738.5	11,525.9	14.1	14.5	110.50	189.3	-1,026.9	449.6	423.0	26.58	16.915	
11,625.0	11,385.5	11,775.9	11,539.2	14.1	14.5	110.97	154.4	-1,026.7	450.8	423.9	26.95	16.731	
11,650.0	11,389.8	11,813.7	11,549.8	14.1	14.6	111.36	118.0	-1,026.5	451.8	424.6	27.28	16.564	
11,675.0	11,392.8	11,851.9	11,557.5	14.2	14.6	111.65	80.6	-1,026.3	452.6	425.0	27.56	16.421	
11,700.0	11,394.5	11,890.5	11,562.3	14.2	14.6	111.85	42.4	-1,026.1	453.1	425.3	27.79	16.305	
11,720.1	11,395.0	11,921.5	11,563.9	14.2	14.6	111.93	11.4	-1,026.0	453.3	425.4	27.92	16.234	
11,800.0	11,395.0	12,004.6	11,564.0	14.2	14.7	111.94	-71.7	-1,025.5	453.4	425.0	28.36	15.987	
11,900.0	11,395.0	12,104.6	11,564.0	14.3	14.7	111.94	-171.7	-1,025.0	453.3	424.4	28.98	15.642	
12,000.0	11,395.0	12,204.6	11,564.0	14.4	14.8	111.94	-271.7	-1,024.4	453.3	423.6	29.69	15.268	
12,100.0	11,395.0	12,304.6	11,564.0	14.6	14.9	111.94	-371.7	-1,023.9	453.3	422.9	30.48	14.873	
12,200.0	11,395.0	12,404.6	11,564.0	14.7	15.1	111.94	-471.7	-1,023.3	453.3	422.0	31.34	14.465	
12,300.0	11,395.0	12,504.6	11,564.0	15.0	15.4	111.94	-571.7	-1,022.8	453.3	421.1	32.27	14.049	
12,400.0	11,395.0	12,604.6	11,564.0	15.3	15.8	111.94	-671.7	-1,022.2	453.3	420.1	33.25	13.632	
12,500.0	11,395.0	12,704.6	11,564.0	15.8	16.3	111.94	-771.7	-1,021.7	453.3	419.0	34.30	13.218	
12,600.0	11,395.0	12,804.6	11,564.0	16.3	16.8	111.94	-871.7	-1,021.1	453.3	417.9	35.39	12.809	
12,700.0	11,395.0	12,904.6	11,564.0	16.8	17.4	111.94	-971.7	-1,020.6	453.3	416.8	36.53	12.409	
12,800.0	11,395.0	13,004.6	11,564.0	17.4	18.0	111.95	-1,071.7	-1,020.0	453.3	415.6	37.71	12.020	
12,900.0	11,395.0	13,104.6	11,564.0	18.1	18.7	111.95	-1,171.7	-1,019.5	453.3	414.3	38.93	11.644	
13,000.0	11,395.0	13,204.6	11,564.0	18.7	19.3	111.95	-1,271.7	-1,018.9	453.3	413.1	40.18	11.280	

CC - Min centre to center distance or covergent 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 #11H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	**MD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #11H	**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 #10H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-Standard Keeper 104, 11180-MWD+IFR1+FDIR — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset 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
13,100.0	11,395.0	13,304.6	11,564.0	19.4	20.0	111.95	-1,371.7	-1,018.4	453.3	411.8	41.47	10.930	
13,200.0	11,395.0	13,404.6	11,564.0	20.1	20.7	111.95	-1,471.7	-1,017.9	453.3	410.5	42.78	10.594	
13,300.0	11,395.0	13,504.6	11,564.0	20.9	21.4	111.95	-1,571.7	-1,017.3	453.2	409.1	44.12	10.272	
13,400.0	11,395.0	13,604.6	11,564.0	21.6	22.1	111.95	-1,671.7	-1,016.8	453.2	407.8	45.49	9.964	
13,500.0	11,395.0	13,704.6	11,564.0	22.3	22.8	111.95	-1,771.7	-1,016.2	453.2	406.4	46.87	9.669	
13,600.0	11,395.0	13,804.6	11,564.0	23.1	23.6	111.95	-1,871.7	-1,015.7	453.2	404.9	48.28	9.387	
13,700.0	11,395.0	13,904.6	11,564.0	23.8	24.3	111.95	-1,971.7	-1,015.1	453.2	403.5	49.70	9.118	
13,800.0	11,395.0	14,004.6	11,564.0	24.6	25.1	111.95	-2,071.7	-1,014.6	453.2	402.1	51.15	8.861	
13,900.0	11,395.0	14,104.6	11,564.0	25.4	25.8	111.95	-2,171.7	-1,014.0	453.2	400.6	52.60	8.616	
14,000.0	11,395.0	14,204.6	11,564.0	26.2	26.6	111.95	-2,271.7	-1,013.5	453.2	399.1	54.07	8.381	
14,100.0	11,395.0	14,304.6	11,564.0	26.9	27.4	111.95	-2,371.7	-1,012.9	453.2	397.6	55.55	8.158	
14,200.0	11,395.0	14,404.6	11,564.0	27.7	28.1	111.95	-2,471.7	-1,012.4	453.2	396.1	57.05	7.944	
14,300.0	11,395.0	14,504.6	11,564.0	28.5	28.9	111.95	-2,571.7	-1,011.8	453.2	394.6	58.56	7.739	
14,400.0	11,395.0	14,604.6	11,564.0	29.3	29.7	111.95	-2,671.7	-1,011.3	453.2	393.1	60.07	7.544	
14,500.0	11,395.0	14,704.6	11,564.0	30.1	30.5	111.95	-2,771.7	-1,010.8	453.2	391.6	61.60	7.357	
14,600.0	11,395.0	14,804.6	11,564.0	30.9	31.3	111.95	-2,871.6	-1,010.2	453.2	390.0	63.13	7.178	
14,700.0	11,395.0	14,904.6	11,564.0	31.7	32.1	111.95	-2,971.6	-1,009.7	453.1	388.5	64.67	7.007	
14,800.0	11,395.0	15,004.6	11,564.0	32.5	32.9	111.95	-3,071.6	-1,009.1	453.1	386.9	66.22	6.843	
14,900.0	11,395.0	15,104.6	11,564.0	33.4	33.7	111.95	-3,171.6	-1,008.6	453.1	385.4	67.78	6.685	
15,000.0	11,395.0	15,204.6	11,564.0	34.2	34.5	111.95	-3,271.6	-1,008.0	453.1	383.8	69.34	6.534	
15,100.0	11,395.0	15,304.6	11,564.0	35.0	35.3	111.95	-3,371.6	-1,007.5	453.1	382.2	70.91	6.390	
15,200.0	11,395.0	15,404.6	11,564.0	35.8	36.1	111.95	-3,471.6	-1,006.9	453.1	380.6	72.49	6.251	
15,300.0	11,395.0	15,504.6	11,564.0	36.6	36.9	111.95	-3,571.6	-1,006.4	453.1	379.0	74.07	6.117	
15,400.0	11,395.0	15,604.6	11,564.0	37.5	37.8	111.95	-3,671.6	-1,005.8	453.1	377.4	75.66	5.989	
15,500.0	11,395.0	15,704.6	11,564.0	38.3	38.6	111.95	-3,771.6	-1,005.3	453.1	375.8	77.25	5.865	
15,600.0	11,395.0	15,804.6	11,564.0	39.1	39.4	111.96	-3,871.6	-1,004.7	453.1	374.2	78.84	5.747	
15,700.0	11,395.0	15,904.6	11,564.0	39.9	40.2	111.96	-3,971.6	-1,004.2	453.1	372.6	80.44	5.632	
15,800.0	11,395.0	16,004.6	11,564.0	40.8	41.0	111.96	-4,071.6	-1,003.6	453.1	371.0	82.05	5.522	
15,900.0	11,395.0	16,104.6	11,564.0	41.6	41.9	111.96	-4,171.6	-1,003.1	453.1	369.4	83.65	5.416	
16,000.0	11,395.0	16,204.6	11,564.0	42.4	42.7	111.96	-4,271.6	-1,002.6	453.1	367.8	85.26	5.314	
16,100.0	11,395.0	16,304.6	11,564.0	43.2	43.5	111.96	-4,371.6	-1,002.0	453.0	366.2	86.88	5.215	
16,200.0	11,395.0	16,404.6	11,564.0	44.1	44.3	111.96	-4,471.6	-1,001.5	453.0	364.5	88.49	5.119	
16,300.0	11,395.0	16,504.6	11,564.0	44.9	45.2	111.96	-4,571.6	-1,000.9	453.0	362.9	90.11	5.027	
16,400.0	11,395.0	16,604.6	11,564.0	45.7	46.0	111.96	-4,671.6	-1,000.4	453.0	361.3	91.74	4.938	
16,500.0	11,395.0	16,704.6	11,564.0	46.6	46.8	111.96	-4,771.6	-999.8	453.0	359.7	93.36	4.852	
16,600.0	11,395.0	16,804.6	11,564.0	47.4	47.6	111.96	-4,871.6	-999.3	453.0	358.0	94.99	4.769	
16,700.0	11,395.0	16,904.6	11,564.0	48.3	48.5	111.96	-4,971.6	-998.7	453.0	356.4	96.62	4.689	
16,800.0	11,395.0	17,004.6	11,564.0	49.1	49.3	111.96	-5,071.6	-998.2	453.0	354.7	98.25	4.611	
16,900.0	11,395.0	17,104.6	11,564.0	49.9	50.1	111.96	-5,171.6	-997.6	453.0	353.1	99.89	4.535	
17,000.0	11,395.0	17,204.6	11,564.0	50.8	51.0	111.96	-5,271.6	-997.1	453.0	351.5	101.52	4.462	
17,100.0	11,395.0	17,304.6	11,564.0	51.6	51.8	111.96	-5,371.6	-996.5	453.0	349.8	103.16	4.391	
17,200.0	11,395.0	17,404.6	11,564.0	52.5	52.7	111.96	-5,471.6	-996.0	453.0	348.2	104.80	4.322	
17,300.0	11,395.0	17,504.6	11,564.0	53.3	53.5	111.96	-5,571.6	-995.4	453.0	346.5	106.44	4.255	
17,400.0	11,395.0	17,604.6	11,564.0	54.1	54.3	111.96	-5,671.6	-994.9	453.0	344.9	108.09	4.191	
17,500.0	11,395.0	17,704.6	11,564.0	55.0	55.2	111.96	-5,771.6	-994.4	452.9	343.2	109.73	4.128	
17,600.0	11,395.0	17,804.6	11,564.0	55.8	56.0	111.96	-5,871.6	-993.8	452.9	341.6	111.38	4.067	
17,700.0	11,395.0	17,904.6	11,564.0	56.7	56.8	111.96	-5,971.6	-993.3	452.9	339.9	113.03	4.007	
17,800.0	11,395.0	18,004.6	11,564.0	57.5	57.7	111.96	-6,071.6	-992.7	452.9	338.2	114.68	3.950	
17,900.0	11,395.0	18,104.6	11,564.0	58.3	58.5	111.96	-6,171.6	-992.2	452.9	336.6	116.33	3.893	
18,000.0	11,395.0	18,204.6	11,564.0	59.2	59.4	111.96	-6,271.6	-991.6	452.9	334.9	117.98	3.839	
18,100.0	11,395.0	18,304.6	11,564.0	60.0	60.2	111.96	-6,371.6	-991.1	452.9	333.3	119.64	3.786	
18,200.0	11,395.0	18,404.6	11,564.0	60.9	61.0	111.96	-6,471.6	-990.5	452.9	331.6	121.29	3.734	

CC - Min centre to center distance or covergent 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 #11H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	**MD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #11H	**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 #10H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-Standard Keeper 104, 11180-MWD+IFR1+FDIR — **Rule Assigned:** — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,300.0	11,395.0	18,504.6	11,564.0	61.7	61.9	111.97	-6,571.6	-990.0	452.9	329.9	122.95	3.684	
18,400.0	11,395.0	18,604.6	11,564.0	62.6	62.7	111.97	-6,671.6	-989.4	452.9	328.3	124.60	3.635	
18,500.0	11,395.0	18,704.6	11,564.0	63.4	63.6	111.97	-6,771.6	-988.9	452.9	326.6	126.26	3.587	
18,518.5	11,395.0	18,723.0	11,564.0	63.6	63.7	111.97	-6,790.0	-988.8	452.9	326.3	126.57	3.578	

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 2731 WC #11H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	**MD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #11H	**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 #12H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-Standard Keeper 104, 11124-MWD+IFR1+FDIR — **Rule Assigned:** — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset 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
0.0	0.0	0.0	0.0	3.0	3.0	89.43	0.2	20.0	20.0				
100.0	100.0	100.0	100.0	3.0	3.0	89.43	0.2	20.0	20.0	14.0	6.00	3.330	
200.0	200.0	200.0	200.0	3.0	3.0	89.43	0.2	20.0	20.0	14.0	6.00	3.329	
300.0	300.0	300.0	300.0	3.0	3.0	89.43	0.2	20.0	20.0	14.0	6.01	3.325	
400.0	400.0	400.0	400.0	3.0	3.0	89.43	0.2	20.0	20.0	14.0	6.02	3.320	
500.0	500.0	500.0	500.0	3.1	3.1	89.43	0.2	20.0	20.0	14.0	6.03	3.313	
600.0	600.0	600.0	600.0	3.1	3.1	89.43	0.2	20.0	20.0	13.9	6.05	3.305	
700.0	700.0	700.0	700.0	3.1	3.1	89.43	0.2	20.0	20.0	13.9	6.07	3.294	
800.0	800.0	800.0	800.0	3.2	3.2	89.43	0.2	20.0	20.0	13.9	6.09	3.282	
900.0	900.0	900.0	900.0	3.2	3.2	89.43	0.2	20.0	20.0	13.9	6.11	3.269	
1,000.0	1,000.0	1,000.0	1,000.0	3.2	3.2	89.43	0.2	20.0	20.0	13.8	6.14	3.254	
1,100.0	1,100.0	1,100.0	1,100.0	3.3	3.3	89.43	0.2	20.0	20.0	13.8	6.17	3.238	
1,200.0	1,200.0	1,200.0	1,200.0	3.4	3.4	89.43	0.2	20.0	20.0	13.8	6.21	3.220	
1,300.0	1,300.0	1,300.0	1,300.0	3.4	3.4	89.43	0.2	20.0	20.0	13.7	6.24	3.201	
1,400.0	1,400.0	1,400.0	1,400.0	3.5	3.5	89.43	0.2	20.0	20.0	13.7	6.28	3.180	
1,500.0	1,500.0	1,500.0	1,500.0	3.5	3.5	89.43	0.2	20.0	20.0	13.7	6.33	3.159	
1,600.0	1,600.0	1,600.0	1,600.0	3.6	3.6	89.43	0.2	20.0	20.0	13.6	6.37	3.136	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	89.43	0.2	20.0	20.0	13.6	6.42	3.112	
1,800.0	1,800.0	1,800.0	1,800.0	3.8	3.8	89.43	0.2	20.0	20.0	13.5	6.47	3.088	
1,900.0	1,900.0	1,900.0	1,900.0	3.9	3.9	89.43	0.2	20.0	20.0	13.5	6.52	3.063	
2,000.0	2,000.0	2,000.0	2,000.0	3.9	3.9	89.43	0.2	20.0	20.0	13.4	6.58	3.036	CC, ES, SF
2,100.0	2,100.0	2,100.0	2,100.0	4.0	4.0	143.63	0.2	20.0	21.4	14.7	6.64	3.215	
2,200.0	2,199.8	2,199.8	2,199.8	4.1	4.1	150.50	0.2	20.0	25.8	19.0	6.76	3.811	
2,300.0	2,299.5	2,299.5	2,299.5	4.1	4.2	157.77	0.2	20.0	33.6	26.7	6.95	4.837	
2,400.0	2,398.7	2,398.7	2,398.7	4.2	4.3	163.56	0.2	20.0	45.1	38.0	7.18	6.290	
2,500.0	2,497.7	2,497.7	2,497.7	4.3	4.4	167.41	0.2	20.0	58.6	51.2	7.39	7.934	
2,600.0	2,596.8	2,598.7	2,598.7	4.4	4.5	169.00	1.8	19.3	71.0	63.4	7.56	9.385	
2,700.0	2,695.8	2,700.3	2,700.1	4.4	4.6	168.54	6.6	17.2	80.6	72.9	7.69	10.491	
2,800.0	2,794.8	2,802.3	2,801.7	4.5	4.7	166.66	14.9	13.7	87.6	79.8	7.76	11.286	
2,900.0	2,893.8	2,904.3	2,903.0	4.6	4.8	163.52	26.4	8.8	92.1	84.3	7.79	11.815	
3,000.0	2,992.9	3,004.1	3,001.8	4.7	4.9	160.02	39.2	3.4	95.7	87.9	7.82	12.242	
3,100.0	3,091.9	3,103.9	3,100.6	4.8	5.0	156.80	52.0	-2.1	99.6	91.8	7.85	12.695	
3,200.0	3,190.9	3,203.6	3,199.4	4.9	5.0	153.82	64.7	-7.5	103.9	96.0	7.89	13.166	
3,300.0	3,289.9	3,303.4	3,298.2	5.0	5.1	151.09	77.5	-13.0	108.4	100.4	7.94	13.648	
3,400.0	3,389.0	3,403.2	3,397.0	5.0	5.2	148.57	90.3	-18.4	113.1	105.1	8.00	14.135	
3,500.0	3,488.0	3,502.9	3,495.8	5.1	5.3	146.27	103.0	-23.8	118.0	109.9	8.07	14.622	
3,600.0	3,587.0	3,602.7	3,594.6	5.2	5.4	144.15	115.8	-29.3	123.1	114.9	8.15	15.104	
3,700.0	3,686.0	3,702.5	3,693.4	5.3	5.5	142.20	128.6	-34.7	128.3	120.1	8.24	15.579	
3,800.0	3,785.1	3,802.3	3,792.2	5.4	5.7	140.40	141.4	-40.2	133.7	125.4	8.34	16.044	
3,900.0	3,884.1	3,902.0	3,891.0	5.5	5.8	138.75	154.1	-45.6	139.2	130.8	8.44	16.496	
4,000.0	3,983.1	4,001.8	3,989.8	5.6	5.9	137.22	166.9	-51.0	144.9	136.3	8.55	16.935	
4,100.0	4,082.2	4,101.6	4,088.6	5.7	6.0	135.81	179.7	-56.5	150.6	141.9	8.67	17.358	
4,200.0	4,181.2	4,201.3	4,187.4	5.8	6.1	134.50	192.5	-61.9	156.4	147.6	8.80	17.764	
4,300.0	4,280.2	4,301.1	4,286.2	5.9	6.2	133.29	205.2	-67.4	162.2	153.3	8.94	18.154	
4,400.0	4,379.2	4,400.9	4,385.0	6.1	6.3	132.16	218.0	-72.8	168.2	159.1	9.08	18.527	
4,500.0	4,478.3	4,500.7	4,483.8	6.2	6.4	131.10	230.8	-78.3	174.2	165.0	9.22	18.882	
4,600.0	4,577.3	4,600.4	4,582.6	6.3	6.5	130.12	243.6	-83.7	180.2	170.9	9.38	19.220	
4,700.0	4,676.3	4,700.2	4,681.4	6.4	6.6	129.20	256.3	-89.1	186.3	176.8	9.54	19.541	
4,800.0	4,775.3	4,800.0	4,780.2	6.5	6.7	128.35	269.1	-94.6	192.5	182.8	9.70	19.845	
4,900.0	4,874.4	4,899.7	4,879.0	6.6	6.9	127.54	281.9	-100.0	198.7	188.8	9.87	20.132	
5,000.0	4,973.4	4,999.5	4,977.8	6.7	7.0	126.78	294.7	-105.5	204.9	194.9	10.04	20.402	
5,100.0	5,072.4	5,099.3	5,076.6	6.8	7.1	126.07	307.4	-110.9	211.2	200.9	10.22	20.657	

CC - Min centre to center distance or covergent 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 #11H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	**MD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #11H	**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 #12H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-Standard Keeper 104, 11124-MWD+IFR1+FDIR — **Rule Assigned:** — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset 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
5,200.0	5,171.5	5,199.0	5,175.4	6.9	7.2	125.40	320.2	-116.3	217.4	207.0	10.41	20.896	
5,300.0	5,270.5	5,298.8	5,274.2	7.0	7.3	124.76	333.0	-121.8	223.8	213.2	10.59	21.121	
5,400.0	5,369.5	5,398.6	5,373.0	7.2	7.4	124.17	345.8	-127.2	230.1	219.3	10.79	21.331	
5,500.0	5,468.5	5,498.4	5,471.8	7.3	7.5	123.60	358.5	-132.7	236.5	225.5	10.98	21.527	
5,600.0	5,567.6	5,598.1	5,570.6	7.4	7.7	123.06	371.3	-138.1	242.9	231.7	11.19	21.710	
5,700.0	5,666.6	5,697.9	5,669.4	7.5	7.8	122.55	384.1	-143.6	249.3	237.9	11.39	21.880	
5,800.0	5,765.6	5,797.7	5,768.2	7.6	7.9	122.07	396.9	-149.0	255.7	244.1	11.60	22.038	
5,900.0	5,864.6	5,897.4	5,867.0	7.7	8.0	121.61	409.6	-154.4	262.1	250.3	11.82	22.185	
6,000.0	5,963.7	5,997.2	5,965.8	7.9	8.1	121.17	422.4	-159.9	268.6	256.6	12.03	22.320	
6,100.0	6,062.7	6,097.0	6,064.6	8.0	8.2	120.75	435.2	-165.3	275.1	262.8	12.26	22.445	
6,200.0	6,161.7	6,196.6	6,163.3	8.1	8.4	120.43	447.6	-170.6	281.6	269.1	12.48	22.565	
6,300.0	6,260.7	6,296.2	6,262.1	8.2	8.5	120.45	458.5	-175.3	288.2	275.5	12.70	22.699	
6,400.0	6,359.8	6,395.7	6,361.1	8.3	8.6	120.81	467.8	-179.2	294.8	281.9	12.90	22.848	
6,500.0	6,458.8	6,495.1	6,460.2	8.5	8.7	121.47	475.6	-182.5	301.6	288.5	13.11	23.013	
6,600.0	6,557.8	6,594.4	6,559.2	8.6	8.8	122.43	481.7	-185.2	308.6	295.3	13.30	23.196	
6,700.0	6,656.9	6,693.4	6,658.2	8.7	9.0	123.65	486.3	-187.1	315.7	302.3	13.49	23.411	
6,800.0	6,755.9	6,792.2	6,756.9	8.8	9.1	125.12	489.3	-188.4	323.3	309.6	13.67	23.655	
6,900.0	6,854.9	6,890.6	6,855.3	9.0	9.2	126.80	490.7	-189.0	331.3	317.4	13.86	23.909	
7,000.0	6,953.9	6,989.3	6,953.9	9.1	9.3	128.64	490.8	-189.0	339.8	325.8	14.06	24.176	
7,100.0	7,053.0	7,088.3	7,053.0	9.2	9.4	130.41	490.8	-189.0	348.7	334.5	14.26	24.448	
7,200.0	7,152.0	7,187.3	7,152.0	9.3	9.6	132.10	490.8	-189.0	358.0	343.5	14.48	24.722	
7,300.0	7,251.0	7,286.4	7,251.0	9.5	9.7	133.70	490.8	-189.0	367.5	352.8	14.70	24.998	
7,400.8	7,350.9	7,386.2	7,350.9	9.6	9.8	135.23	490.8	-189.0	377.4	362.5	14.93	25.278	
7,500.0	7,449.2	7,484.5	7,449.2	9.7	9.9	136.64	490.8	-189.0	386.7	371.6	15.15	25.523	
7,600.0	7,548.5	7,583.9	7,548.5	9.8	10.0	137.83	490.8	-189.0	395.1	379.7	15.37	25.708	
7,700.0	7,648.1	7,683.4	7,648.1	10.0	10.2	138.79	490.8	-189.0	402.3	386.7	15.57	25.829	
7,800.0	7,747.8	7,783.1	7,747.8	10.1	10.3	139.55	490.8	-189.0	408.2	392.4	15.77	25.886	
7,900.0	7,847.6	7,882.9	7,847.6	10.2	10.4	140.14	490.8	-189.0	412.9	396.9	15.95	25.880	
8,000.0	7,947.5	7,982.8	7,947.5	10.3	10.5	140.54	490.8	-189.0	416.3	400.1	16.12	25.817	
8,100.0	8,047.4	8,082.8	8,047.4	10.4	10.7	140.78	490.8	-189.0	418.3	402.0	16.28	25.696	
8,200.8	8,148.3	8,183.6	8,148.3	10.5	10.8	89.62	490.8	-189.0	419.0	402.6	16.40	25.542	
8,300.0	8,247.4	8,282.8	8,247.4	10.6	10.9	89.62	490.8	-189.0	419.0	402.5	16.50	25.393	
8,400.0	8,347.4	8,382.8	8,347.4	10.8	11.0	89.62	490.8	-189.0	419.0	402.4	16.60	25.245	
8,500.0	8,447.4	8,482.8	8,447.4	10.9	11.1	89.62	490.8	-189.0	419.0	402.3	16.69	25.097	
8,600.0	8,547.4	8,582.8	8,547.4	11.0	11.3	89.62	490.8	-189.0	419.0	402.2	16.79	24.950	
8,700.0	8,647.4	8,682.8	8,647.4	11.1	11.4	89.62	490.8	-189.0	419.0	402.1	16.89	24.804	
8,800.0	8,747.4	8,782.8	8,747.4	11.2	11.5	89.62	490.8	-189.0	419.0	402.0	16.99	24.659	
8,900.0	8,847.4	8,882.8	8,847.4	11.3	11.6	89.62	490.8	-189.0	419.0	401.9	17.09	24.514	
9,000.0	8,947.4	8,982.8	8,947.4	11.4	11.8	89.62	490.8	-189.0	419.0	401.8	17.19	24.371	
9,100.0	9,047.4	9,082.8	9,047.4	11.5	11.9	89.62	490.8	-189.0	419.0	401.7	17.29	24.229	
9,200.0	9,147.4	9,182.8	9,147.4	11.7	12.0	89.62	490.8	-189.0	419.0	401.6	17.39	24.087	
9,300.0	9,247.4	9,282.8	9,247.4	11.8	12.1	89.62	490.8	-189.0	419.0	401.5	17.50	23.947	
9,400.0	9,347.4	9,382.8	9,347.4	11.9	12.3	89.62	490.8	-189.0	419.0	401.4	17.60	23.807	
9,500.0	9,447.4	9,482.8	9,447.4	12.0	12.4	89.62	490.8	-189.0	419.0	401.3	17.70	23.668	
9,600.0	9,547.4	9,582.8	9,547.4	12.1	12.5	89.62	490.8	-189.0	419.0	401.2	17.81	23.531	
9,700.0	9,647.4	9,682.8	9,647.4	12.2	12.6	89.62	490.8	-189.0	419.0	401.1	17.91	23.394	
9,800.0	9,747.4	9,782.8	9,747.4	12.3	12.8	89.62	490.8	-189.0	419.0	401.0	18.01	23.258	
9,900.0	9,847.4	9,882.8	9,847.4	12.5	12.9	89.62	490.8	-189.0	419.0	400.9	18.12	23.123	
10,000.0	9,947.4	9,982.8	9,947.4	12.6	13.0	89.62	490.8	-189.0	419.0	400.8	18.23	22.989	
10,100.0	10,047.4	10,082.8	10,047.4	12.7	13.1	89.62	490.8	-189.0	419.0	400.7	18.33	22.857	
10,200.0	10,147.4	10,182.8	10,147.4	12.8	13.3	89.62	490.8	-189.0	419.0	400.6	18.44	22.725	
10,300.0	10,247.4	10,282.8	10,247.4	12.9	13.4	89.62	490.8	-189.0	419.0	400.4	18.54	22.594	

CC - Min centre to center distance or covergent 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 #11H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	**MD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #11H	**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 #12H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-Standard Keeper 104, 11124-MWD+IFR1+FDIR — **Rule Assigned:** — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset 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
10,400.0	10,347.4	10,382.8	10,347.4	13.0	13.5	89.62	490.8	-189.0	419.0	400.3	18.65	22.464	
10,500.0	10,447.4	10,482.8	10,447.4	13.2	13.7	89.62	490.8	-189.0	419.0	400.2	18.76	22.335	
10,600.0	10,547.4	10,582.8	10,547.4	13.3	13.8	89.62	490.8	-189.0	419.0	400.1	18.87	22.207	
10,700.0	10,647.4	10,682.8	10,647.4	13.4	13.9	89.62	490.8	-189.0	419.0	400.0	18.98	22.080	
10,800.0	10,747.4	10,782.8	10,747.4	13.5	14.0	89.62	490.8	-189.0	419.0	399.9	19.08	21.954	
10,900.0	10,847.4	10,882.8	10,847.4	13.6	14.2	89.62	490.8	-189.0	419.0	399.8	19.19	21.829	
10,970.1	10,917.5	10,952.8	10,917.5	13.7	14.3	89.62	490.8	-189.0	419.0	399.7	19.26	21.759	
10,975.0	10,922.4	10,957.8	10,922.4	13.7	14.3	-90.08	490.8	-189.0	419.0	399.7	19.26	21.756	
11,000.0	10,947.4	10,982.8	10,947.4	13.7	14.3	-90.20	490.8	-189.0	419.0	399.7	19.27	21.748	
11,025.0	10,972.3	11,007.7	10,972.3	13.7	14.3	-90.50	490.8	-189.0	419.0	399.7	19.26	21.756	
11,050.0	10,997.1	11,032.4	10,997.1	13.7	14.4	-90.97	490.8	-189.0	419.1	399.8	19.24	21.779	
11,075.0	11,021.6	11,056.9	11,021.6	13.7	14.4	-91.60	490.8	-189.0	419.2	399.9	19.21	21.818	
11,100.0	11,045.8	11,081.2	11,045.8	13.7	14.4	-92.38	490.8	-189.0	419.4	400.2	19.17	21.872	
11,125.0	11,069.7	11,105.1	11,069.7	13.7	14.4	-93.30	490.8	-189.0	419.8	400.6	19.13	21.941	
11,150.0	11,093.2	11,128.9	11,093.6	13.7	14.5	-94.34	490.8	-189.0	420.4	401.3	19.09	22.025	
11,175.0	11,116.2	11,154.3	11,118.9	13.7	14.5	-95.47	489.8	-189.0	421.2	402.1	19.04	22.117	
11,200.0	11,138.7	11,180.2	11,144.8	13.7	14.5	-96.60	487.5	-189.0	422.2	403.2	19.02	22.195	
11,225.0	11,160.5	11,206.7	11,171.0	13.8	14.5	-97.72	483.6	-189.0	423.4	404.3	19.03	22.253	
11,250.0	11,181.7	11,233.8	11,197.5	13.8	14.5	-98.84	478.2	-189.0	424.7	405.7	19.06	22.284	
11,275.0	11,202.1	11,261.6	11,224.3	13.8	14.5	-99.94	471.1	-188.9	426.2	407.1	19.13	22.279	
11,300.0	11,221.8	11,290.0	11,251.3	13.8	14.5	-101.02	462.2	-188.9	427.9	408.6	19.25	22.231	
11,325.0	11,240.6	11,319.1	11,278.4	13.8	14.5	-102.08	451.4	-188.8	429.6	410.2	19.41	22.131	
11,350.0	11,258.6	11,349.0	11,305.4	13.9	14.5	-103.12	438.7	-188.7	431.5	411.8	19.64	21.974	
11,375.0	11,275.6	11,379.5	11,332.2	13.9	14.6	-104.13	423.9	-188.7	433.4	413.5	19.92	21.756	
11,400.0	11,291.6	11,410.9	11,358.6	13.9	14.6	-105.11	407.1	-188.6	435.4	415.1	20.27	21.478	
11,425.0	11,306.7	11,443.1	11,384.5	13.9	14.6	-106.05	388.0	-188.5	437.4	416.7	20.69	21.144	
11,450.0	11,320.6	11,476.0	11,409.6	14.0	14.6	-106.95	366.7	-188.3	439.4	418.3	21.17	20.761	
11,475.0	11,333.4	11,509.8	11,433.8	14.0	14.7	-107.79	343.1	-188.2	441.4	419.7	21.70	20.341	
11,500.0	11,345.1	11,544.3	11,456.7	14.0	14.7	-108.59	317.3	-188.1	443.3	421.0	22.28	19.895	
11,525.0	11,355.7	11,579.6	11,478.2	14.0	14.7	-109.32	289.3	-187.9	445.1	422.2	22.90	19.437	
11,550.0	11,365.0	11,615.7	11,497.9	14.1	14.7	-109.98	259.1	-187.7	446.8	423.2	23.54	18.981	
11,575.0	11,373.1	11,652.4	11,515.5	14.1	14.8	-110.57	226.9	-187.6	448.3	424.1	24.18	18.538	
11,600.0	11,379.9	11,689.7	11,530.9	14.1	14.8	-111.07	192.9	-187.4	449.6	424.8	24.81	18.120	
11,625.0	11,385.5	11,727.6	11,543.7	14.1	14.8	-111.49	157.3	-187.2	450.7	425.3	25.41	17.734	
11,650.0	11,389.8	11,765.9	11,553.8	14.1	14.9	-111.82	120.4	-187.0	451.6	425.6	25.97	17.387	
11,675.0	11,392.8	11,804.5	11,560.9	14.2	14.9	-112.04	82.4	-186.8	452.2	425.7	26.47	17.085	
11,700.0	11,394.5	11,843.3	11,565.0	14.2	14.9	-112.17	43.8	-186.6	452.5	425.6	26.89	16.828	
11,720.1	11,395.0	11,874.6	11,566.0	14.2	14.9	-112.20	12.6	-186.4	452.6	425.4	27.17	16.656	
11,722.4	11,395.0	11,878.2	11,565.9	14.2	14.9	-112.20	9.0	-186.4	452.6	425.4	27.20	16.638	
11,800.0	11,395.0	11,954.3	11,566.0	14.2	14.9	-112.20	-67.1	-185.9	452.6	425.0	27.62	16.387	
11,900.0	11,395.0	12,054.3	11,566.0	14.3	15.0	-112.20	-167.1	-185.4	452.6	424.4	28.26	16.015	
12,000.0	11,395.0	12,154.3	11,566.0	14.4	15.0	-112.20	-267.1	-184.8	452.6	423.6	28.99	15.613	
12,100.0	11,395.0	12,254.3	11,566.0	14.6	15.0	-112.20	-367.1	-184.3	452.6	422.9	29.80	15.191	
12,200.0	11,395.0	12,354.3	11,566.0	14.7	15.1	-112.20	-467.1	-183.7	452.7	422.0	30.68	14.756	
12,300.0	11,395.0	12,454.3	11,566.0	15.0	15.1	-112.19	-567.1	-183.2	452.7	421.1	31.62	14.315	
12,400.0	11,395.0	12,554.3	11,566.0	15.3	15.2	-112.19	-667.1	-182.6	452.7	420.1	32.63	13.874	
12,500.0	11,395.0	12,654.3	11,566.0	15.8	15.4	-112.19	-767.1	-182.1	452.7	419.0	33.69	13.437	
12,600.0	11,395.0	12,754.3	11,566.0	16.3	15.6	-112.19	-867.1	-181.5	452.7	417.9	34.80	13.009	
12,700.0	11,395.0	12,854.3	11,566.0	16.8	16.0	-112.19	-967.1	-181.0	452.7	416.8	35.96	12.590	
12,800.0	11,395.0	12,954.3	11,566.0	17.4	16.6	-112.19	-1,067.1	-180.4	452.7	415.6	37.16	12.185	
12,900.0	11,395.0	13,054.3	11,566.0	18.1	17.3	-112.19	-1,167.1	-179.9	452.8	414.4	38.39	11.793	
13,000.0	11,395.0	13,154.3	11,566.0	18.7	18.0	-112.19	-1,267.1	-179.3	452.8	413.1	39.66	11.415	

CC - Min centre to center distance or covergent 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 #11H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	**MD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #11H	**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 #12H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-Standard Keeper 104, 11124-MWD+IFR1+FDIR — **Rule Assigned:** — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset 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
13,100.0	11,395.0	13,254.3	11,566.0	19.4	18.7	-112.19	-1,367.1	-178.8	452.8	411.8	40.96	11.053	
13,200.0	11,395.0	13,354.3	11,566.0	20.1	19.4	-112.19	-1,467.1	-178.2	452.8	410.5	42.29	10.706	
13,300.0	11,395.0	13,454.3	11,566.0	20.9	20.2	-112.19	-1,567.1	-177.7	452.8	409.2	43.65	10.375	
13,400.0	11,395.0	13,554.3	11,566.0	21.6	20.9	-112.19	-1,667.1	-177.1	452.8	407.8	45.02	10.058	
13,500.0	11,395.0	13,654.3	11,566.0	22.3	21.7	-112.19	-1,767.1	-176.5	452.8	406.4	46.42	9.755	
13,600.0	11,395.0	13,754.3	11,566.0	23.1	22.5	-112.19	-1,867.1	-176.0	452.8	405.0	47.84	9.466	
13,700.0	11,395.0	13,854.3	11,566.0	23.8	23.3	-112.19	-1,967.0	-175.4	452.9	403.6	49.27	9.191	
13,800.0	11,395.0	13,954.3	11,566.0	24.6	24.1	-112.18	-2,067.0	-174.9	452.9	402.1	50.72	8.928	
13,900.0	11,395.0	14,054.3	11,566.0	25.4	24.9	-112.18	-2,167.0	-174.3	452.9	400.7	52.19	8.678	
14,000.0	11,395.0	14,154.3	11,566.0	26.2	25.7	-112.18	-2,267.0	-173.8	452.9	399.2	53.67	8.439	
14,100.0	11,395.0	14,254.3	11,566.0	26.9	26.5	-112.18	-2,367.0	-173.2	452.9	397.7	55.16	8.211	
14,200.0	11,395.0	14,354.3	11,566.0	27.7	27.3	-112.18	-2,467.0	-172.7	452.9	396.3	56.66	7.993	
14,300.0	11,395.0	14,454.3	11,566.0	28.5	28.1	-112.18	-2,567.0	-172.1	452.9	394.8	58.17	7.786	
14,400.0	11,395.0	14,554.3	11,566.0	29.3	28.9	-112.18	-2,667.0	-171.6	452.9	393.2	59.70	7.587	
14,500.0	11,395.0	14,654.3	11,566.0	30.1	29.7	-112.18	-2,767.0	-171.0	453.0	391.7	61.23	7.398	
14,600.0	11,395.0	14,754.3	11,566.0	30.9	30.5	-112.18	-2,867.0	-170.5	453.0	390.2	62.77	7.216	
14,700.0	11,395.0	14,854.3	11,566.0	31.7	31.3	-112.18	-2,967.0	-169.9	453.0	388.7	64.32	7.043	
14,800.0	11,395.0	14,954.3	11,566.0	32.5	32.2	-112.18	-3,067.0	-169.4	453.0	387.1	65.87	6.877	
14,900.0	11,395.0	15,054.3	11,566.0	33.4	33.0	-112.18	-3,167.0	-168.8	453.0	385.6	67.44	6.718	
15,000.0	11,395.0	15,154.3	11,566.0	34.2	33.8	-112.18	-3,267.0	-168.3	453.0	384.0	69.00	6.565	
15,100.0	11,395.0	15,254.3	11,566.0	35.0	34.6	-112.18	-3,367.0	-167.7	453.0	382.5	70.58	6.419	
15,200.0	11,395.0	15,354.3	11,566.0	35.8	35.5	-112.18	-3,467.0	-167.2	453.0	380.9	72.16	6.278	
15,300.0	11,395.0	15,454.3	11,566.0	36.6	36.3	-112.18	-3,567.0	-166.6	453.1	379.3	73.74	6.144	
15,400.0	11,395.0	15,554.3	11,566.0	37.5	37.1	-112.17	-3,667.0	-166.0	453.1	377.7	75.33	6.014	
15,500.0	11,395.0	15,654.3	11,566.0	38.3	38.0	-112.17	-3,767.0	-165.5	453.1	376.2	76.93	5.890	
15,600.0	11,395.0	15,754.3	11,566.0	39.1	38.8	-112.17	-3,867.0	-164.9	453.1	374.6	78.52	5.770	
15,700.0	11,395.0	15,854.3	11,566.0	39.9	39.6	-112.17	-3,967.0	-164.4	453.1	373.0	80.13	5.655	
15,800.0	11,395.0	15,954.3	11,566.0	40.8	40.5	-112.17	-4,067.0	-163.8	453.1	371.4	81.73	5.544	
15,900.0	11,395.0	16,054.3	11,566.0	41.6	41.3	-112.17	-4,167.0	-163.3	453.1	369.8	83.34	5.437	
16,000.0	11,395.0	16,154.3	11,566.0	42.4	42.1	-112.17	-4,267.0	-162.7	453.1	368.2	84.96	5.334	
16,100.0	11,395.0	16,254.3	11,566.0	43.2	43.0	-112.17	-4,367.0	-162.2	453.2	366.6	86.57	5.234	
16,200.0	11,395.0	16,354.3	11,566.0	44.1	43.8	-112.17	-4,467.0	-161.6	453.2	365.0	88.19	5.139	
16,300.0	11,395.0	16,454.3	11,566.0	44.9	44.6	-112.17	-4,567.0	-161.1	453.2	363.4	89.81	5.046	
16,400.0	11,395.0	16,554.3	11,566.0	45.7	45.5	-112.17	-4,667.0	-160.5	453.2	361.8	91.44	4.956	
16,500.0	11,395.0	16,654.3	11,566.0	46.6	46.3	-112.17	-4,767.0	-160.0	453.2	360.1	93.06	4.870	
16,600.0	11,395.0	16,754.3	11,566.0	47.4	47.2	-112.17	-4,867.0	-159.4	453.2	358.5	94.69	4.786	
16,700.0	11,395.0	16,854.3	11,566.0	48.3	48.0	-112.17	-4,967.0	-158.9	453.2	356.9	96.32	4.705	
16,800.0	11,395.0	16,954.3	11,566.0	49.1	48.8	-112.17	-5,067.0	-158.3	453.2	355.3	97.96	4.627	
16,900.0	11,395.0	17,054.3	11,566.0	49.9	49.7	-112.16	-5,167.0	-157.8	453.3	353.7	99.59	4.551	
17,000.0	11,395.0	17,154.3	11,566.0	50.8	50.5	-112.16	-5,267.0	-157.2	453.3	352.0	101.23	4.478	
17,100.0	11,395.0	17,254.3	11,566.0	51.6	51.4	-112.16	-5,367.0	-156.7	453.3	350.4	102.87	4.406	
17,200.0	11,395.0	17,354.3	11,566.0	52.5	52.2	-112.16	-5,467.0	-156.1	453.3	348.8	104.51	4.337	
17,300.0	11,395.0	17,454.3	11,566.0	53.3	53.1	-112.16	-5,567.0	-155.6	453.3	347.2	106.16	4.270	
17,400.0	11,395.0	17,554.3	11,566.0	54.1	53.9	-112.16	-5,667.0	-155.0	453.3	345.5	107.80	4.205	
17,500.0	11,395.0	17,654.3	11,566.0	55.0	54.8	-112.16	-5,767.0	-154.4	453.3	343.9	109.45	4.142	
17,600.0	11,395.0	17,754.3	11,566.0	55.8	55.6	-112.16	-5,867.0	-153.9	453.3	342.3	111.09	4.081	
17,700.0	11,395.0	17,854.3	11,566.0	56.7	56.5	-112.16	-5,967.0	-153.3	453.4	340.6	112.74	4.021	
17,800.0	11,395.0	17,954.3	11,566.0	57.5	57.3	-112.16	-6,067.0	-152.8	453.4	339.0	114.39	3.963	
17,900.0	11,395.0	18,054.3	11,566.0	58.3	58.1	-112.16	-6,167.0	-152.2	453.4	337.3	116.04	3.907	
18,000.0	11,395.0	18,154.3	11,566.0	59.2	59.0	-112.16	-6,267.0	-151.7	453.4	335.7	117.70	3.852	
18,100.0	11,395.0	18,254.3	11,566.0	60.0	59.8	-112.16	-6,367.0	-151.1	453.4	334.1	119.35	3.799	
18,200.0	11,395.0	18,354.3	11,566.0	60.9	60.7	-112.16	-6,467.0	-150.6	453.4	332.4	121.01	3.747	

CC - Min centre to center distance or covergent 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 #11H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	**MD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #11H	**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 #12H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-Standard Keeper 104, 11124-MWD+IFR1+FDIR — **Rule Assigned:** — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,300.0	11,395.0	18,454.3	11,566.0	61.7	61.5	-112.16	-6,567.0	-150.0	453.4	330.8	122.66	3.697	
18,400.0	11,395.0	18,554.3	11,566.0	62.6	62.4	-112.15	-6,667.0	-149.5	453.4	329.1	124.32	3.647	
18,500.0	11,395.0	18,654.3	11,566.0	63.4	63.1	-112.15	-6,767.0	-148.9	453.5	327.6	125.84	3.603	
18,518.5	11,395.0	18,672.6	11,566.0	63.6	63.2	-112.15	-6,785.3	-148.8	453.5	327.4	126.10	3.596	

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 2731 WC #11H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	**MD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #11H	**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 #13H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-Standard Keeper 104, 10950-MWD+IFR1+FDIR — **Rule Assigned:** — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset 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
0.0	0.0	0.0	0.0	3.0	3.0	89.50	0.3	39.9	39.9				
100.0	100.0	99.9	99.9	3.0	3.0	89.50	0.3	39.9	39.9	33.9	6.00	6.643	
200.0	200.0	199.9	199.9	3.0	3.0	89.50	0.3	39.9	39.9	33.9	6.00	6.640	
300.0	300.0	299.9	299.9	3.0	3.0	89.50	0.3	39.9	39.9	33.9	6.01	6.634	
400.0	400.0	399.9	399.9	3.0	3.0	89.50	0.3	39.9	39.9	33.8	6.02	6.623	
500.0	500.0	499.9	499.9	3.1	3.1	89.50	0.3	39.9	39.9	33.8	6.03	6.610	
600.0	600.0	599.9	599.9	3.1	3.1	89.50	0.3	39.9	39.9	33.8	6.05	6.593	
700.0	700.0	699.9	699.9	3.1	3.1	89.50	0.3	39.9	39.9	33.8	6.07	6.572	
800.0	800.0	799.9	799.9	3.2	3.2	89.50	0.3	39.9	39.9	33.8	6.09	6.548	
900.0	900.0	899.9	899.9	3.2	3.2	89.50	0.3	39.9	39.9	33.7	6.11	6.522	
1,000.0	1,000.0	999.9	999.9	3.2	3.2	89.50	0.3	39.9	39.9	33.7	6.14	6.492	
1,100.0	1,100.0	1,099.9	1,099.9	3.3	3.3	89.50	0.3	39.9	39.9	33.7	6.17	6.459	
1,200.0	1,200.0	1,199.9	1,199.9	3.4	3.4	89.50	0.3	39.9	39.9	33.7	6.21	6.423	
1,300.0	1,300.0	1,299.9	1,299.9	3.4	3.4	89.50	0.3	39.9	39.9	33.6	6.24	6.385	
1,400.0	1,400.0	1,399.9	1,399.9	3.5	3.5	89.50	0.3	39.9	39.9	33.6	6.28	6.344	
1,500.0	1,500.0	1,499.9	1,499.9	3.5	3.5	89.50	0.3	39.9	39.9	33.5	6.33	6.301	
1,600.0	1,600.0	1,599.9	1,599.9	3.6	3.6	89.50	0.3	39.9	39.9	33.5	6.37	6.256	
1,700.0	1,700.0	1,699.9	1,699.9	3.7	3.7	89.50	0.3	39.9	39.9	33.4	6.42	6.209	
1,800.0	1,800.0	1,799.9	1,799.9	3.8	3.8	89.50	0.3	39.9	39.9	33.4	6.47	6.160	
1,900.0	1,900.0	1,899.9	1,899.9	3.9	3.9	89.50	0.3	39.9	39.9	33.3	6.52	6.110	
2,000.0	2,000.0	1,999.9	1,999.9	3.9	3.9	89.50	0.3	39.9	39.9	33.3	6.58	6.058	CC, ES, SF
2,100.0	2,100.0	2,099.9	2,099.9	4.0	4.0	142.26	0.3	39.9	41.2	34.6	6.64	6.209	
2,200.0	2,199.8	2,199.7	2,199.7	4.1	4.1	146.25	0.3	39.9	45.5	38.8	6.72	6.765	
2,300.0	2,299.5	2,299.4	2,299.4	4.1	4.2	151.42	0.3	39.9	53.0	46.1	6.85	7.729	
2,400.0	2,398.7	2,398.6	2,398.6	4.2	4.3	156.56	0.3	39.9	63.9	56.9	7.02	9.101	
2,500.0	2,497.7	2,497.6	2,497.6	4.3	4.4	160.68	0.3	39.9	76.9	69.7	7.22	10.660	
2,600.0	2,596.8	2,596.5	2,596.5	4.4	4.5	162.56	1.8	40.6	90.3	82.9	7.37	12.252	
2,700.0	2,695.8	2,695.3	2,695.1	4.4	4.6	162.06	6.4	42.7	103.9	96.4	7.46	13.932	
2,800.0	2,794.8	2,793.9	2,793.4	4.5	4.7	160.02	14.0	46.3	117.9	110.4	7.51	15.700	
2,900.0	2,893.8	2,892.3	2,891.1	4.6	4.8	157.08	24.3	51.2	132.4	124.9	7.54	17.567	
3,000.0	2,992.9	2,991.0	2,989.1	4.7	4.8	154.50	35.2	56.3	147.3	139.8	7.58	19.429	
3,100.0	3,091.9	3,089.7	3,087.0	4.8	4.9	152.40	46.1	61.5	162.5	154.9	7.65	21.251	
3,200.0	3,190.9	3,188.4	3,185.0	4.9	5.0	150.66	56.9	66.6	177.9	170.1	7.73	23.023	
3,300.0	3,289.9	3,287.1	3,282.9	5.0	5.1	149.20	67.8	71.7	193.3	185.5	7.81	24.740	
3,400.0	3,389.0	3,385.7	3,380.9	5.0	5.2	147.95	78.7	76.9	208.9	201.0	7.91	26.398	
3,500.0	3,488.0	3,484.4	3,478.8	5.1	5.3	146.88	89.6	82.0	224.6	216.6	8.02	27.996	
3,600.0	3,587.0	3,583.1	3,576.8	5.2	5.4	145.95	100.4	87.2	240.3	232.2	8.14	29.532	
3,700.0	3,686.0	3,681.8	3,674.7	5.3	5.5	145.13	111.3	92.3	256.1	247.9	8.26	31.007	
3,800.0	3,785.1	3,780.5	3,772.7	5.4	5.6	144.41	122.2	97.4	271.9	263.6	8.39	32.420	
3,900.0	3,884.1	3,879.2	3,870.6	5.5	5.7	143.77	133.1	102.6	287.8	279.3	8.52	33.771	
4,000.0	3,983.1	3,977.8	3,968.6	5.6	5.8	143.19	143.9	107.7	303.7	295.1	8.66	35.063	
4,100.0	4,082.2	4,076.5	4,066.5	5.7	5.9	142.67	154.8	112.8	319.7	310.9	8.81	36.296	
4,200.0	4,181.2	4,175.2	4,164.5	5.8	6.0	142.20	165.7	118.0	335.6	326.7	8.96	37.472	
4,300.0	4,280.2	4,273.9	4,262.4	5.9	6.1	141.77	176.6	123.1	351.6	342.5	9.11	38.591	
4,400.0	4,379.2	4,372.6	4,360.4	6.1	6.3	141.38	187.4	128.3	367.6	358.3	9.27	39.657	
4,500.0	4,478.3	4,471.3	4,458.3	6.2	6.4	141.03	198.3	133.4	383.6	374.2	9.43	40.670	
4,600.0	4,577.3	4,569.9	4,556.2	6.3	6.5	140.70	209.2	138.5	399.6	390.0	9.60	41.633	
4,700.0	4,676.3	4,668.6	4,654.2	6.4	6.6	140.39	220.0	143.7	415.6	405.9	9.77	42.548	
4,800.0	4,775.3	4,767.3	4,752.1	6.5	6.7	140.11	230.9	148.8	431.7	421.7	9.94	43.415	
4,900.0	4,874.4	4,866.0	4,850.1	6.6	6.8	139.85	241.8	154.0	447.7	437.6	10.12	44.238	
5,000.0	4,973.4	4,964.7	4,948.0	6.7	6.9	139.61	252.7	159.1	463.8	453.5	10.30	45.018	
5,100.0	5,072.4	5,063.4	5,046.0	6.8	7.0	139.38	263.5	164.2	479.9	469.4	10.49	45.756	

CC - Min centre to center distance or covergent 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 #11H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	**MD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #11H	**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 #13H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-Standard Keeper 104, 10950-MWD+IFR1+FDIR — **Rule Assigned:** — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset 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
5,200.0	5,171.5	5,162.0	5,143.9	6.9	7.1	139.17	274.4	169.4	495.9	485.3	10.68	46.456	
5,300.0	5,270.5	5,260.7	5,241.9	7.0	7.3	138.97	285.3	174.5	512.0	501.2	10.87	47.117	
5,400.0	5,369.5	5,359.4	5,339.8	7.2	7.4	138.79	296.2	179.6	528.1	517.0	11.06	47.743	
5,500.0	5,468.5	5,458.1	5,437.8	7.3	7.5	138.61	307.0	184.8	544.2	532.9	11.26	48.334	
5,600.0	5,567.6	5,556.8	5,535.7	7.4	7.6	138.45	317.9	189.9	560.3	548.8	11.46	48.893	
5,700.0	5,666.6	5,655.5	5,633.7	7.5	7.7	138.29	328.8	195.1	576.4	564.7	11.66	49.421	
5,800.0	5,765.6	5,754.1	5,731.6	7.6	7.8	138.14	339.7	200.2	592.5	580.6	11.87	49.918	
5,900.0	5,864.6	5,852.8	5,829.6	7.7	7.9	138.00	350.5	205.3	608.6	596.5	12.08	50.388	
6,000.0	5,963.7	5,951.5	5,927.5	7.9	8.1	137.87	361.4	210.5	624.7	612.4	12.29	50.831	
6,100.0	6,062.7	6,050.2	6,025.5	8.0	8.2	137.75	372.3	215.6	640.8	628.3	12.50	51.248	
6,200.0	6,161.7	6,148.9	6,123.4	8.1	8.3	137.63	383.1	220.7	657.0	644.2	12.72	51.641	
6,300.0	6,260.7	6,247.6	6,221.4	8.2	8.4	137.51	394.0	225.9	673.1	660.1	12.94	52.010	
6,400.0	6,359.8	6,346.2	6,319.3	8.3	8.5	137.40	404.9	231.0	689.2	676.0	13.16	52.358	
6,500.0	6,458.8	6,444.9	6,417.3	8.5	8.7	137.30	415.8	236.2	705.3	691.9	13.39	52.684	
6,600.0	6,557.8	6,543.6	6,515.2	8.6	8.8	137.20	426.6	241.3	721.5	707.8	13.61	52.991	
6,700.0	6,656.9	6,642.3	6,613.2	8.7	8.9	137.11	437.5	246.4	737.6	723.7	13.84	53.278	
6,800.0	6,755.9	6,741.0	6,711.1	8.8	9.0	137.01	448.4	251.6	753.7	739.6	14.08	53.548	
6,900.0	6,854.9	6,842.4	6,811.8	9.0	9.1	136.94	459.4	256.8	769.8	755.5	14.31	53.805	
7,000.0	6,953.9	6,948.2	6,917.0	9.1	9.3	136.96	469.5	261.6	785.1	770.6	14.53	54.020	
7,100.0	7,053.0	7,054.3	7,022.7	9.2	9.4	137.11	477.9	265.5	799.6	784.8	14.76	54.187	
7,200.0	7,152.0	7,160.5	7,128.7	9.3	9.5	137.37	484.4	268.6	813.1	798.2	14.97	54.309	
7,300.0	7,251.0	7,266.9	7,234.9	9.5	9.6	137.75	489.2	270.9	825.8	810.7	15.18	54.407	
7,400.8	7,350.9	7,374.1	7,342.1	9.6	9.8	138.23	492.3	272.3	837.8	822.4	15.38	54.489	
7,500.0	7,449.2	7,479.7	7,447.7	9.7	9.9	138.84	493.5	272.9	848.1	832.6	15.56	54.516	
7,600.0	7,548.5	7,580.5	7,548.4	9.8	10.0	139.40	493.5	272.9	856.7	841.0	15.73	54.473	
7,700.0	7,648.1	7,680.0	7,648.0	10.0	10.1	139.86	493.5	272.9	864.1	848.2	15.89	54.370	
7,800.0	7,747.8	7,779.7	7,747.7	10.1	10.3	140.24	493.5	272.9	870.1	854.1	16.05	54.201	
7,900.0	7,847.6	7,879.5	7,847.5	10.2	10.4	140.52	493.5	272.9	874.8	858.6	16.21	53.967	
8,000.0	7,947.5	7,979.4	7,947.4	10.3	10.5	140.73	493.5	272.9	878.2	861.8	16.36	53.684	
8,100.0	8,047.4	8,079.4	8,047.3	10.4	10.6	140.85	493.5	272.9	880.2	863.7	16.50	53.345	
8,200.8	8,148.3	8,180.2	8,148.2	10.5	10.8	89.64	493.5	272.9	880.9	864.3	16.62	53.002	
8,300.0	8,247.4	8,279.4	8,247.3	10.6	10.9	89.64	493.5	272.9	880.9	864.2	16.72	52.702	
8,400.0	8,347.4	8,379.4	8,347.3	10.8	11.0	89.64	493.5	272.9	880.9	864.1	16.81	52.401	
8,500.0	8,447.4	8,479.4	8,447.3	10.9	11.1	89.64	493.5	272.9	880.9	864.0	16.91	52.101	
8,600.0	8,547.4	8,579.4	8,547.3	11.0	11.2	89.64	493.5	272.9	880.9	863.9	17.01	51.804	
8,700.0	8,647.4	8,679.4	8,647.3	11.1	11.4	89.64	493.5	272.9	880.9	863.8	17.10	51.507	
8,800.0	8,747.4	8,779.4	8,747.3	11.2	11.5	89.64	493.5	272.9	880.9	863.7	17.20	51.213	
8,900.0	8,847.4	8,879.4	8,847.3	11.3	11.6	89.64	493.5	272.9	880.9	863.6	17.30	50.920	
9,000.0	8,947.4	8,979.4	8,947.3	11.4	11.7	89.64	493.5	272.9	880.9	863.5	17.40	50.629	
9,100.0	9,047.4	9,079.4	9,047.3	11.5	11.9	89.64	493.5	272.9	880.9	863.4	17.50	50.339	
9,200.0	9,147.4	9,179.4	9,147.3	11.7	12.0	89.64	493.5	272.9	880.9	863.3	17.60	50.052	
9,300.0	9,247.4	9,279.4	9,247.3	11.8	12.1	89.64	493.5	272.9	880.9	863.2	17.70	49.766	
9,400.0	9,347.4	9,379.4	9,347.3	11.9	12.2	89.64	493.5	272.9	880.9	863.1	17.80	49.482	
9,500.0	9,447.4	9,479.4	9,447.3	12.0	12.4	89.64	493.5	272.9	880.9	863.0	17.91	49.200	
9,600.0	9,547.4	9,579.4	9,547.3	12.1	12.5	89.64	493.5	272.9	880.9	862.9	18.01	48.919	
9,700.0	9,647.4	9,679.4	9,647.3	12.2	12.6	89.64	493.5	272.9	880.9	862.8	18.11	48.641	
9,800.0	9,747.4	9,779.4	9,747.3	12.3	12.7	89.64	493.5	272.9	880.9	862.7	18.21	48.364	
9,900.0	9,847.4	9,879.4	9,847.3	12.5	12.9	89.64	493.5	272.9	880.9	862.6	18.32	48.090	
10,000.0	9,947.4	9,979.4	9,947.3	12.6	13.0	89.64	493.5	272.9	880.9	862.5	18.42	47.817	
10,100.0	10,047.4	10,079.4	10,047.3	12.7	13.1	89.64	493.5	272.9	880.9	862.4	18.53	47.546	
10,200.0	10,147.4	10,179.4	10,147.3	12.8	13.2	89.64	493.5	272.9	880.9	862.3	18.63	47.277	
10,300.0	10,247.4	10,279.4	10,247.3	12.9	13.4	89.64	493.5	272.9	880.9	862.2	18.74	47.010	

CC - Min centre to center distance or covergent 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 #11H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	**MD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #11H	**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 #13H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-Standard Keeper 104, 10950-MWD+IFR1+FDIR — **Rule Assigned:** — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset 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
10,400.0	10,347.4	10,379.4	10,347.3	13.0	13.5	89.64	493.5	272.9	880.9	862.1	18.85	46.745	
10,500.0	10,447.4	10,479.4	10,447.3	13.2	13.6	89.64	493.5	272.9	880.9	862.0	18.95	46.482	
10,600.0	10,547.4	10,579.4	10,547.3	13.3	13.7	89.64	493.5	272.9	880.9	861.9	19.06	46.221	
10,700.0	10,647.4	10,679.4	10,647.3	13.4	13.9	89.64	493.5	272.9	880.9	861.8	19.17	45.961	
10,800.0	10,747.4	10,779.4	10,747.3	13.5	14.0	89.64	493.5	272.9	880.9	861.7	19.27	45.704	
10,900.0	10,847.4	10,879.4	10,847.3	13.6	14.1	89.64	493.5	272.9	880.9	861.6	19.38	45.449	
10,970.1	10,917.5	10,949.5	10,917.4	13.7	14.2	89.64	493.5	272.9	880.9	861.5	19.43	45.334	
10,975.0	10,922.4	10,954.4	10,922.4	13.7	14.2	-90.05	493.5	272.9	880.9	861.5	19.43	45.332	
11,000.0	10,947.4	10,979.7	10,947.7	13.7	14.2	-90.06	492.7	272.9	880.9	861.5	19.44	45.320	
11,025.0	10,972.3	11,005.1	10,972.9	13.7	14.2	-90.06	490.4	272.9	880.9	861.5	19.44	45.304	
11,050.0	10,997.1	11,030.4	10,997.9	13.7	14.2	-90.06	486.9	272.9	880.9	861.4	19.45	45.284	
11,075.0	11,021.6	11,055.7	11,022.8	13.7	14.2	-90.07	482.0	272.9	880.9	861.4	19.46	45.258	
11,100.0	11,045.8	11,081.0	11,047.3	13.7	14.2	-90.07	475.8	272.9	880.8	861.4	19.48	45.227	
11,125.0	11,069.7	11,106.3	11,071.5	13.7	14.2	-90.07	468.4	272.9	880.8	861.3	19.49	45.189	
11,150.0	11,093.2	11,131.6	11,095.2	13.7	14.2	-90.07	459.6	272.9	880.7	861.2	19.51	45.145	
11,175.0	11,116.2	11,156.9	11,118.5	13.7	14.2	-90.08	449.6	272.9	880.7	861.2	19.53	45.093	
11,200.0	11,138.7	11,182.2	11,141.2	13.7	14.3	-90.08	438.4	272.9	880.6	861.1	19.56	45.033	
11,225.0	11,160.5	11,207.5	11,163.2	13.8	14.3	-90.08	426.1	272.9	880.6	861.0	19.58	44.962	
11,250.0	11,181.7	11,232.8	11,184.6	13.8	14.3	-90.08	412.5	272.9	880.5	860.9	19.62	44.882	
11,275.0	11,202.1	11,258.1	11,205.2	13.8	14.3	-90.08	397.9	272.9	880.4	860.7	19.66	44.789	
11,300.0	11,221.8	11,283.3	11,225.0	13.8	14.3	-90.09	382.2	272.9	880.3	860.6	19.70	44.684	
11,325.0	11,240.6	11,308.6	11,243.9	13.8	14.4	-90.09	365.5	272.9	880.2	860.5	19.75	44.565	
11,350.0	11,258.6	11,333.9	11,261.9	13.9	14.4	-90.09	347.8	272.9	880.1	860.3	19.81	44.431	
11,375.0	11,275.6	11,359.1	11,279.0	13.9	14.4	-90.09	329.2	272.9	880.0	860.1	19.87	44.282	
11,400.0	11,291.6	11,384.4	11,295.0	13.9	14.4	-90.09	309.7	272.9	879.9	860.0	19.94	44.117	
11,425.0	11,306.7	11,409.6	11,310.0	13.9	14.4	-90.09	289.4	272.9	879.8	859.8	20.02	43.935	
11,450.0	11,320.6	11,434.8	11,323.9	14.0	14.5	-90.09	268.3	272.9	879.7	859.6	20.11	43.737	
11,475.0	11,333.4	11,460.0	11,336.6	14.0	14.5	-90.09	246.6	272.9	879.6	859.3	20.21	43.522	
11,500.0	11,345.1	11,485.2	11,348.2	14.0	14.5	-90.09	224.2	272.9	879.4	859.1	20.31	43.290	
11,525.0	11,355.7	11,510.4	11,358.6	14.0	14.5	-90.09	201.3	272.8	879.3	858.9	20.43	43.043	
11,550.0	11,365.0	11,535.5	11,367.7	14.1	14.6	-90.08	177.8	272.8	879.2	858.6	20.55	42.781	
11,575.0	11,373.1	11,560.7	11,375.6	14.1	14.6	-90.08	154.0	272.8	879.0	858.4	20.68	42.505	
11,600.0	11,379.9	11,585.8	11,382.2	14.1	14.6	-90.08	129.7	272.8	878.9	858.1	20.82	42.216	
11,625.0	11,385.5	11,610.9	11,387.6	14.1	14.6	-90.08	105.2	272.8	878.8	857.8	20.96	41.916	
11,650.0	11,389.8	11,636.0	11,391.6	14.1	14.6	-90.08	80.4	272.8	878.6	857.5	21.12	41.607	
11,675.0	11,392.8	11,661.1	11,394.3	14.2	14.6	-90.07	55.5	272.8	878.5	857.2	21.28	41.290	
11,700.0	11,394.5	11,686.2	11,395.7	14.2	14.6	-90.07	30.4	272.8	878.3	856.9	21.44	40.967	
11,720.1	11,395.0	11,706.3	11,396.0	14.2	14.6	-90.07	10.3	272.8	878.2	856.7	21.58	40.702	
11,800.0	11,395.0	11,786.2	11,396.0	14.2	14.7	-90.07	-69.6	272.8	877.8	855.6	22.17	39.585	
11,900.0	11,395.0	11,886.2	11,396.0	14.3	14.7	-90.07	-169.6	272.8	877.2	854.2	23.02	38.115	
12,000.0	11,395.0	11,986.2	11,396.0	14.4	14.7	-90.07	-269.6	272.7	876.7	852.7	23.95	36.604	
12,100.0	11,395.0	12,086.2	11,396.0	14.6	14.8	-90.07	-369.6	272.7	876.1	851.1	24.97	35.091	
12,200.0	11,395.0	12,186.2	11,396.0	14.7	14.9	-90.07	-469.6	272.7	875.5	849.5	26.06	33.600	
12,300.0	11,395.0	12,286.2	11,396.0	15.0	14.9	-90.07	-569.6	272.7	875.0	847.8	27.21	32.154	
12,400.0	11,395.0	12,386.2	11,396.0	15.3	15.1	-90.07	-669.6	272.6	874.4	846.0	28.42	30.764	
12,500.0	11,395.0	12,486.2	11,396.0	15.8	15.3	-90.07	-769.6	272.6	873.8	844.2	29.68	29.438	
12,600.0	11,395.0	12,586.2	11,396.0	16.3	15.6	-90.07	-869.6	272.6	873.3	842.3	30.99	28.180	
12,700.0	11,395.0	12,686.2	11,396.0	16.8	16.1	-90.07	-969.6	272.6	872.7	840.4	32.33	26.992	
12,800.0	11,395.0	12,786.2	11,396.0	17.4	16.7	-90.07	-1,069.6	272.5	872.2	838.4	33.71	25.873	
12,900.0	11,395.0	12,886.2	11,396.0	18.1	17.4	-90.07	-1,169.6	272.5	871.6	836.5	35.12	24.821	
13,000.0	11,395.0	12,986.2	11,396.0	18.7	18.1	-90.07	-1,269.6	272.5	871.0	834.5	36.55	23.832	
13,100.0	11,395.0	13,086.2	11,396.0	19.4	18.8	-90.07	-1,369.6	272.5	870.5	832.5	38.00	22.904	

CC - Min centre to center distance or covergent 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 #11H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	**MD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #11H	**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 #13H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-Standard Keeper 104, 10950-MWD+IFR1+FDIR — **Rule Assigned:** — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset 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
13,200.0	11,395.0	13,186.2	11,396.0	20.1	19.5	-90.07	-1,469.6	272.4	869.9	830.4	39.48	22.033	
13,300.0	11,395.0	13,286.2	11,396.0	20.9	20.3	-90.07	-1,569.6	272.4	869.3	828.4	40.98	21.216	
13,400.0	11,395.0	13,386.2	11,396.0	21.6	21.0	-90.07	-1,669.6	272.4	868.8	826.3	42.49	20.447	
13,500.0	11,395.0	13,486.2	11,396.0	22.3	21.8	-90.07	-1,769.6	272.4	868.2	824.2	44.02	19.725	
13,600.0	11,395.0	13,586.2	11,396.0	23.1	22.6	-90.07	-1,869.6	272.3	867.6	822.1	45.56	19.046	
13,700.0	11,395.0	13,686.2	11,396.0	23.8	23.3	-90.07	-1,969.6	272.3	867.1	820.0	47.11	18.406	
13,800.0	11,395.0	13,786.2	11,396.0	24.6	24.1	-90.07	-2,069.6	272.3	866.5	817.9	48.67	17.803	
13,900.0	11,395.0	13,886.2	11,396.0	25.4	24.9	-90.07	-2,169.6	272.3	866.0	815.7	50.24	17.235	
14,000.0	11,395.0	13,986.2	11,396.0	26.2	25.7	-90.07	-2,269.6	272.3	865.4	813.6	51.83	16.698	
14,100.0	11,395.0	14,086.2	11,396.0	26.9	26.5	-90.07	-2,369.6	272.2	864.8	811.4	53.42	16.190	
14,200.0	11,395.0	14,186.2	11,396.0	27.7	27.3	-90.07	-2,469.6	272.2	864.3	809.3	55.02	15.710	
14,300.0	11,395.0	14,286.2	11,396.0	28.5	28.1	-90.07	-2,569.6	272.2	863.7	807.1	56.62	15.254	
14,400.0	11,395.0	14,386.2	11,396.0	29.3	28.9	-90.07	-2,669.6	272.2	863.1	804.9	58.23	14.823	
14,500.0	11,395.0	14,486.2	11,396.0	30.1	29.8	-90.07	-2,769.6	272.1	862.6	802.7	59.85	14.413	
14,600.0	11,395.0	14,586.2	11,396.0	30.9	30.6	-90.07	-2,869.6	272.1	862.0	800.6	61.47	14.023	
14,700.0	11,395.0	14,686.2	11,396.0	31.7	31.4	-90.07	-2,969.6	272.1	861.5	798.4	63.10	13.653	
14,800.0	11,395.0	14,786.2	11,396.0	32.5	32.2	-90.07	-3,069.6	272.1	860.9	796.2	64.73	13.300	
14,900.0	11,395.0	14,886.2	11,396.0	33.4	33.0	-90.07	-3,169.6	272.0	860.3	794.0	66.37	12.964	
15,000.0	11,395.0	14,986.2	11,396.0	34.2	33.8	-90.07	-3,269.6	272.0	859.8	791.8	68.01	12.643	
15,100.0	11,395.0	15,086.2	11,396.0	35.0	34.7	-90.07	-3,369.6	272.0	859.2	789.6	69.65	12.336	
15,200.0	11,395.0	15,186.2	11,396.0	35.8	35.5	-90.07	-3,469.6	272.0	858.6	787.3	71.30	12.043	
15,300.0	11,395.0	15,286.2	11,396.0	36.6	36.3	-90.07	-3,569.5	271.9	858.1	785.1	72.95	11.763	
15,400.0	11,395.0	15,386.2	11,396.0	37.5	37.2	-90.07	-3,669.5	271.9	857.5	782.9	74.60	11.495	
15,500.0	11,395.0	15,486.2	11,396.0	38.3	38.0	-90.07	-3,769.5	271.9	857.0	780.7	76.25	11.238	
15,600.0	11,395.0	15,586.2	11,396.0	39.1	38.8	-90.07	-3,869.5	271.9	856.4	778.5	77.91	10.992	
15,700.0	11,395.0	15,686.2	11,396.0	39.9	39.7	-90.07	-3,969.5	271.8	855.8	776.3	79.57	10.755	
15,800.0	11,395.0	15,786.2	11,396.0	40.8	40.5	-90.07	-4,069.5	271.8	855.3	774.0	81.24	10.528	
15,900.0	11,395.0	15,886.2	11,396.0	41.6	41.3	-90.07	-4,169.5	271.8	854.7	771.8	82.90	10.310	
16,000.0	11,395.0	15,986.2	11,396.0	42.4	42.2	-90.07	-4,269.5	271.8	854.1	769.6	84.57	10.100	
16,100.0	11,395.0	16,086.2	11,396.0	43.2	43.0	-90.07	-4,369.5	271.7	853.6	767.3	86.24	9.898	
16,200.0	11,395.0	16,186.2	11,396.0	44.1	43.8	-90.07	-4,469.5	271.7	853.0	765.1	87.91	9.704	
16,300.0	11,395.0	16,286.2	11,396.0	44.9	44.7	-90.07	-4,569.5	271.7	852.5	762.9	89.58	9.516	
16,400.0	11,395.0	16,386.2	11,396.0	45.7	45.5	-90.07	-4,669.5	271.7	851.9	760.6	91.25	9.335	
16,500.0	11,395.0	16,486.2	11,396.0	46.6	46.4	-90.07	-4,769.5	271.7	851.3	758.4	92.93	9.161	
16,600.0	11,395.0	16,586.2	11,396.0	47.4	47.2	-90.07	-4,869.5	271.6	850.8	756.2	94.61	8.993	
16,700.0	11,395.0	16,686.2	11,396.0	48.3	48.0	-90.07	-4,969.5	271.6	850.2	753.9	96.29	8.830	
16,800.0	11,395.0	16,786.2	11,396.0	49.1	48.9	-90.07	-5,069.5	271.6	849.6	751.7	97.97	8.673	
16,900.0	11,395.0	16,886.2	11,396.0	49.9	49.7	-90.07	-5,169.5	271.6	849.1	749.4	99.65	8.521	
17,000.0	11,395.0	16,986.2	11,396.0	50.8	50.6	-90.07	-5,269.5	271.5	848.5	747.2	101.33	8.374	
17,100.0	11,395.0	17,086.2	11,396.0	51.6	51.4	-90.07	-5,369.5	271.5	848.0	744.9	103.01	8.232	
17,200.0	11,395.0	17,186.2	11,396.0	52.5	52.2	-90.07	-5,469.5	271.5	847.4	742.7	104.70	8.094	
17,300.0	11,395.0	17,286.2	11,396.0	53.3	53.1	-90.07	-5,569.5	271.5	846.8	740.4	106.38	7.960	
17,400.0	11,395.0	17,386.2	11,396.0	54.1	53.9	-90.07	-5,669.5	271.4	846.3	738.2	108.07	7.831	
17,500.0	11,395.0	17,486.2	11,396.0	55.0	54.8	-90.07	-5,769.5	271.4	845.7	735.9	109.75	7.705	
17,600.0	11,395.0	17,586.2	11,396.0	55.8	55.6	-90.07	-5,869.5	271.4	845.1	733.7	111.44	7.584	
17,700.0	11,395.0	17,686.2	11,396.0	56.7	56.5	-90.07	-5,969.5	271.4	844.6	731.4	113.13	7.466	
17,800.0	11,395.0	17,786.1	11,396.0	57.5	57.3	-90.07	-6,069.5	271.3	844.0	729.2	114.82	7.351	
17,900.0	11,395.0	17,886.1	11,396.0	58.3	58.2	-90.07	-6,169.5	271.3	843.4	726.9	116.51	7.239	
18,000.0	11,395.0	17,986.1	11,396.0	59.2	59.0	-90.07	-6,269.5	271.3	842.9	724.7	118.20	7.131	
18,100.0	11,395.0	18,086.1	11,396.0	60.0	59.9	-90.07	-6,369.5	271.3	842.3	722.4	119.89	7.026	
18,200.0	11,395.0	18,186.1	11,396.0	60.9	60.7	-90.07	-6,469.5	271.2	841.8	720.2	121.58	6.923	
18,300.0	11,395.0	18,286.1	11,396.0	61.7	61.6	-90.07	-6,569.5	271.2	841.2	717.9	123.28	6.824	

CC - Min centre to center distance or covergent 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 #11H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	**MD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #11H	**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 #13H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-Standard Keeper 104, 10950-MWD+IFR1+FDIR — **Rule Assigned:** — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,400.0	11,395.0	18,386.1	11,396.0	62.6	62.4	-90.07	-6,669.5	271.2	840.6	715.7	124.97	6.727	
18,500.0	11,395.0	18,486.1	11,396.0	63.4	63.0	-90.08	-6,769.5	271.2	840.1	713.6	126.46	6.643	
18,518.0	11,395.0	18,499.5	11,396.0	63.6	63.1	-90.08	-6,782.8	271.2	840.0	713.3	126.69	6.630	
18,518.5	11,395.0	18,499.5	11,396.0	63.6	63.1	-90.08	-6,782.8	271.2	840.0	713.3	126.70	6.630	

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 2731 WC #11H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	**MD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #11H	**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 #9H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-Standard Keeper 104, 11048-MWD+IFR1+FDIR — **Rule Assigned:** — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset 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
0.0	0.0	0.0	0.0	3.0	3.0	-90.16	-0.1	-39.9	39.9				
100.0	100.0	99.7	99.7	3.0	3.0	-90.16	-0.1	-39.9	39.9	33.9	6.00	6.643	
200.0	200.0	199.7	199.7	3.0	3.0	-90.16	-0.1	-39.9	39.9	33.9	6.00	6.640	
300.0	300.0	299.7	299.7	3.0	3.0	-90.16	-0.1	-39.9	39.9	33.9	6.01	6.633	
400.0	400.0	399.7	399.7	3.0	3.0	-90.16	-0.1	-39.9	39.9	33.8	6.02	6.623	
500.0	500.0	499.7	499.7	3.1	3.1	-90.16	-0.1	-39.9	39.9	33.8	6.03	6.610	
600.0	600.0	599.7	599.7	3.1	3.1	-90.16	-0.1	-39.9	39.9	33.8	6.05	6.592	
700.0	700.0	699.7	699.7	3.1	3.1	-90.16	-0.1	-39.9	39.9	33.8	6.07	6.572	
800.0	800.0	799.7	799.7	3.2	3.2	-90.16	-0.1	-39.9	39.9	33.8	6.09	6.548	
900.0	900.0	899.7	899.7	3.2	3.2	-90.16	-0.1	-39.9	39.9	33.7	6.11	6.521	
1,000.0	1,000.0	999.7	999.7	3.2	3.2	-90.16	-0.1	-39.9	39.9	33.7	6.14	6.492	
1,100.0	1,100.0	1,099.7	1,099.7	3.3	3.3	-90.16	-0.1	-39.9	39.9	33.7	6.17	6.459	
1,200.0	1,200.0	1,199.7	1,199.7	3.4	3.4	-90.16	-0.1	-39.9	39.9	33.7	6.21	6.423	
1,300.0	1,300.0	1,299.7	1,299.7	3.4	3.4	-90.16	-0.1	-39.9	39.9	33.6	6.24	6.385	
1,400.0	1,400.0	1,399.7	1,399.7	3.5	3.5	-90.16	-0.1	-39.9	39.9	33.6	6.28	6.344	
1,500.0	1,500.0	1,499.7	1,499.7	3.5	3.5	-90.16	-0.1	-39.9	39.9	33.5	6.33	6.301	
1,600.0	1,600.0	1,599.7	1,599.7	3.6	3.6	-90.16	-0.1	-39.9	39.9	33.5	6.37	6.256	
1,700.0	1,700.0	1,699.7	1,699.7	3.7	3.7	-90.16	-0.1	-39.9	39.9	33.4	6.42	6.209	
1,800.0	1,800.0	1,799.7	1,799.7	3.8	3.8	-90.16	-0.1	-39.9	39.9	33.4	6.47	6.160	
1,900.0	1,900.0	1,899.7	1,899.7	3.9	3.9	-90.16	-0.1	-39.9	39.9	33.3	6.52	6.110	
2,000.0	2,000.0	1,999.7	1,999.7	3.9	3.9	-90.16	-0.1	-39.9	39.9	33.3	6.58	6.058	CC, ES
2,100.0	2,100.0	2,098.4	2,098.4	4.0	4.0	-39.77	0.4	-41.5	40.2	33.5	6.64	6.050	SF
2,200.0	2,199.8	2,197.0	2,196.9	4.1	4.0	-42.28	1.8	-46.4	41.1	34.4	6.69	6.140	
2,300.0	2,299.5	2,295.6	2,295.1	4.1	4.1	-46.18	4.1	-54.5	42.8	36.1	6.75	6.345	
2,400.0	2,398.7	2,394.2	2,392.9	4.2	4.1	-51.09	7.4	-65.9	45.6	38.8	6.82	6.682	
2,500.0	2,497.7	2,492.6	2,490.1	4.3	4.2	-54.97	11.6	-80.4	50.5	43.6	6.90	7.323	
2,600.0	2,596.8	2,590.7	2,586.5	4.4	4.3	-56.20	16.7	-98.2	58.5	51.5	6.97	8.396	
2,700.0	2,695.8	2,690.1	2,683.7	4.4	4.3	-56.18	22.5	-118.0	68.1	61.1	7.03	9.683	
2,800.0	2,794.8	2,789.6	2,781.1	4.5	4.4	-56.17	28.2	-137.9	77.8	70.7	7.11	10.934	
2,900.0	2,893.8	2,889.1	2,878.4	4.6	4.5	-56.15	34.0	-157.8	87.4	80.2	7.20	12.146	
3,000.0	2,992.9	2,988.7	2,975.8	4.7	4.5	-56.14	39.7	-177.6	97.1	89.8	7.29	13.316	
3,100.0	3,091.9	3,088.2	3,073.2	4.8	4.6	-56.13	45.5	-197.5	106.7	99.3	7.39	14.443	
3,200.0	3,190.9	3,187.7	3,170.5	4.9	4.7	-56.12	51.2	-217.4	116.4	108.9	7.49	15.525	
3,300.0	3,289.9	3,287.3	3,267.9	5.0	4.8	-56.11	56.9	-237.3	126.0	118.4	7.61	16.562	
3,400.0	3,389.0	3,386.8	3,365.2	5.0	4.9	-56.11	62.7	-257.2	135.6	127.9	7.73	17.553	
3,500.0	3,488.0	3,486.3	3,462.6	5.1	4.9	-56.10	68.4	-277.0	145.3	137.4	7.85	18.499	
3,600.0	3,587.0	3,585.9	3,560.0	5.2	5.0	-56.10	74.2	-296.9	154.9	147.0	7.99	19.398	
3,700.0	3,686.0	3,685.4	3,657.3	5.3	5.1	-56.09	79.9	-316.8	164.6	156.5	8.13	20.253	
3,800.0	3,785.1	3,784.9	3,754.7	5.4	5.2	-56.09	85.7	-336.7	174.2	166.0	8.27	21.063	
3,900.0	3,884.1	3,884.5	3,852.0	5.5	5.3	-56.09	91.4	-356.6	183.9	175.5	8.42	21.830	
4,000.0	3,983.1	3,984.0	3,949.4	5.6	5.4	-56.08	97.2	-376.4	193.5	184.9	8.58	22.555	
4,100.0	4,082.2	4,083.5	4,046.7	5.7	5.5	-56.08	102.9	-396.3	203.2	194.4	8.74	23.239	
4,200.0	4,181.2	4,183.1	4,144.1	5.8	5.7	-56.08	108.7	-416.2	212.8	203.9	8.91	23.883	
4,300.0	4,280.2	4,282.6	4,241.5	5.9	5.8	-56.08	114.4	-436.1	222.5	213.4	9.08	24.490	
4,400.0	4,379.2	4,382.1	4,338.8	6.1	5.9	-56.08	120.2	-456.0	232.1	222.9	9.26	25.060	
4,500.0	4,478.3	4,481.7	4,436.2	6.2	6.0	-56.07	125.9	-475.8	241.8	232.3	9.45	25.596	
4,600.0	4,577.3	4,581.2	4,533.5	6.3	6.1	-56.07	131.6	-495.7	251.4	241.8	9.63	26.098	
4,700.0	4,676.3	4,680.7	4,630.9	6.4	6.2	-56.07	137.4	-515.6	261.1	251.2	9.83	26.568	
4,800.0	4,775.3	4,780.3	4,728.3	6.5	6.3	-56.07	143.1	-535.5	270.7	260.7	10.02	27.008	
4,900.0	4,874.4	4,879.8	4,825.6	6.6	6.5	-56.07	148.9	-555.4	280.4	270.1	10.22	27.420	
5,000.0	4,973.4	4,979.3	4,923.0	6.7	6.6	-56.07	154.6	-575.2	290.0	279.6	10.43	27.804	
5,100.0	5,072.4	5,078.9	5,020.3	6.8	6.7	-56.07	160.4	-595.1	299.6	289.0	10.64	28.163	

CC - Min centre to center distance or covergent 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 #11H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	**MD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #11H	**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 #9H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-Standard Keeper 104, 11048-MWD+IFR1+FDIR — **Rule Assigned:** — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset 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
5,200.0	5,171.5	5,178.4	5,117.7	6.9	6.9	-56.06	166.1	-615.0	309.3	298.4	10.85	28.498	
5,300.0	5,270.5	5,277.9	5,215.0	7.0	7.0	-56.06	171.9	-634.9	318.9	307.9	11.07	28.810	
5,400.0	5,369.5	5,377.5	5,312.4	7.2	7.1	-56.06	177.6	-654.8	328.6	317.3	11.29	29.100	
5,500.0	5,468.5	5,477.0	5,409.8	7.3	7.3	-56.06	183.4	-674.6	338.2	326.7	11.52	29.369	
5,600.0	5,567.6	5,576.5	5,507.1	7.4	7.4	-56.06	189.1	-694.5	347.9	336.1	11.74	29.620	
5,700.0	5,666.6	5,676.1	5,604.5	7.5	7.5	-56.06	194.8	-714.4	357.5	345.5	11.98	29.852	
5,800.0	5,765.6	5,775.6	5,701.8	7.6	7.7	-56.06	200.6	-734.3	367.2	355.0	12.21	30.067	
5,900.0	5,864.6	5,875.1	5,799.2	7.7	7.8	-56.06	206.3	-754.2	376.8	364.4	12.45	30.267	
6,000.0	5,963.7	5,974.7	5,896.6	7.9	8.0	-56.06	212.1	-774.0	386.5	373.8	12.69	30.451	
6,100.0	6,062.7	6,074.2	5,993.9	8.0	8.1	-56.06	217.8	-793.9	396.1	383.2	12.94	30.621	
6,200.0	6,161.7	6,173.7	6,091.3	8.1	8.3	-56.06	223.6	-813.8	405.8	392.6	13.18	30.777	
6,300.0	6,260.7	6,273.3	6,188.6	8.2	8.5	-56.06	229.3	-833.7	415.4	402.0	13.43	30.921	
6,400.0	6,359.8	6,372.8	6,286.0	8.3	8.6	-56.05	235.1	-853.6	425.1	411.4	13.69	31.053	
6,500.0	6,458.8	6,472.3	6,383.3	8.5	8.8	-56.05	240.8	-873.5	434.7	420.8	13.94	31.174	
6,600.0	6,557.8	6,571.9	6,480.7	8.6	8.9	-56.05	246.6	-893.3	444.3	430.1	14.20	31.284	
6,700.0	6,656.9	6,671.4	6,578.1	8.7	9.1	-56.05	252.3	-913.2	454.0	439.5	14.47	31.385	
6,800.0	6,755.9	6,770.9	6,675.4	8.8	9.3	-56.05	258.0	-933.1	463.6	448.9	14.73	31.476	
6,900.0	6,854.9	6,870.5	6,772.8	9.0	9.5	-56.05	263.8	-953.0	473.3	458.3	15.00	31.559	
7,000.0	6,953.9	6,970.0	6,870.1	9.1	9.6	-56.05	269.5	-972.9	482.9	467.7	15.27	31.633	
7,100.0	7,053.0	7,069.5	6,967.5	9.2	9.8	-56.05	275.3	-992.7	492.6	477.0	15.54	31.700	
7,200.0	7,152.0	7,169.1	7,064.9	9.3	10.0	-56.05	281.0	-1,012.6	502.2	486.4	15.81	31.759	
7,300.0	7,251.0	7,268.6	7,162.2	9.5	10.2	-56.05	286.8	-1,032.5	511.9	495.8	16.09	31.812	
7,400.8	7,350.9	7,369.0	7,260.4	9.6	10.4	-56.05	292.6	-1,052.5	521.6	505.2	16.37	31.858	
7,500.0	7,449.2	7,467.6	7,356.9	9.7	10.6	-56.06	298.3	-1,072.2	531.6	515.0	16.65	31.936	
7,600.0	7,548.5	7,567.0	7,454.1	9.8	10.8	-55.92	304.0	-1,092.1	542.7	525.8	16.92	32.084	
7,700.0	7,648.1	7,666.2	7,551.1	10.0	11.0	-55.65	309.7	-1,111.9	554.8	537.7	17.18	32.300	
7,800.0	7,747.8	7,765.2	7,648.0	10.1	11.2	-55.26	315.4	-1,131.7	567.9	550.5	17.43	32.585	
7,900.0	7,847.6	7,864.0	7,744.6	10.2	11.4	-54.76	321.1	-1,151.4	582.1	564.4	17.67	32.935	
8,000.0	7,947.5	7,962.6	7,841.0	10.3	11.6	-54.17	326.8	-1,171.1	597.3	579.4	17.90	33.366	
8,100.0	8,047.4	8,060.9	7,937.2	10.4	11.8	-53.48	332.5	-1,190.7	613.6	595.5	18.12	33.866	
8,200.8	8,148.3	8,159.6	8,033.8	10.5	12.0	-103.96	338.2	-1,210.5	631.2	612.9	18.32	34.455	
8,300.0	8,247.4	8,266.9	8,138.8	10.6	12.2	-103.00	344.2	-1,231.0	648.5	630.0	18.49	35.073	
8,400.0	8,347.4	8,376.3	8,246.4	10.8	12.4	-102.16	349.7	-1,250.0	664.4	645.8	18.67	35.596	
8,500.0	8,447.4	8,486.4	8,355.1	10.9	12.6	-101.44	354.6	-1,267.2	678.8	660.0	18.84	36.027	
8,600.0	8,547.4	8,597.1	8,464.7	11.0	12.8	-100.83	359.0	-1,282.4	691.6	672.5	19.02	36.361	
8,700.0	8,647.4	8,708.5	8,575.2	11.1	13.0	-100.32	362.8	-1,295.6	702.6	683.4	19.20	36.598	
8,800.0	8,747.4	8,820.4	8,686.5	11.2	13.1	-99.90	366.1	-1,306.9	712.0	692.6	19.38	36.736	
8,900.0	8,847.4	8,932.6	8,798.3	11.3	13.2	-99.56	368.7	-1,316.0	719.7	700.1	19.57	36.776	
9,000.0	8,947.4	9,045.2	8,910.7	11.4	13.3	-99.31	370.8	-1,323.1	725.6	705.8	19.76	36.721	
9,100.0	9,047.4	9,147.3	9,012.6	11.5	13.4	-99.13	372.3	-1,328.3	730.3	710.4	19.91	36.685	
9,200.0	9,147.4	9,247.1	9,112.3	11.7	13.5	-98.95	373.7	-1,333.3	735.1	715.0	20.05	36.660	
9,300.0	9,247.4	9,347.0	9,212.0	11.8	13.5	-98.78	375.2	-1,338.3	739.8	719.6	20.20	36.630	
9,400.0	9,347.4	9,446.8	9,311.7	11.9	13.6	-98.61	376.6	-1,343.3	744.6	724.2	20.34	36.601	
9,500.0	9,447.4	9,546.7	9,411.5	12.0	13.6	-98.45	378.1	-1,348.4	749.3	728.8	20.49	36.571	
9,600.0	9,547.4	9,646.6	9,511.2	12.1	13.7	-98.28	379.5	-1,353.4	754.1	733.5	20.64	36.538	
9,700.0	9,647.4	9,746.4	9,610.9	12.2	13.7	-98.12	381.0	-1,358.4	758.9	738.1	20.79	36.504	
9,800.0	9,747.4	9,846.3	9,710.6	12.3	13.8	-97.96	382.4	-1,363.4	763.6	742.7	20.94	36.469	
9,900.0	9,847.4	9,946.2	9,810.4	12.5	13.9	-97.80	383.9	-1,368.4	768.4	747.3	21.09	36.432	
10,000.0	9,947.4	10,046.0	9,910.1	12.6	13.9	-97.64	385.3	-1,373.5	773.2	752.0	21.25	36.394	
10,100.0	10,047.4	10,145.9	10,009.8	12.7	14.0	-97.48	386.8	-1,378.5	778.0	756.6	21.40	36.355	
10,200.0	10,147.4	10,245.7	10,109.5	12.8	14.0	-97.33	388.2	-1,383.5	782.8	761.2	21.56	36.315	
10,300.0	10,247.4	10,345.6	10,209.3	12.9	14.1	-97.18	389.7	-1,388.5	787.6	765.9	21.71	36.274	

CC - Min centre to center distance or covergent 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 #11H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	**MD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #11H	**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 #9H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-Standard Keeper 104, 11048-MWD+IFR1+FDIR — **Rule Assigned:** — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset 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
10,400.0	10,347.4	10,445.5	10,309.0	13.0	14.2	-97.03	391.1	-1,393.5	792.4	770.5	21.87	36.232	
10,500.0	10,447.4	10,545.3	10,408.7	13.2	14.2	-96.88	392.6	-1,398.6	797.2	775.2	22.03	36.189	
10,600.0	10,547.4	10,645.2	10,508.4	13.3	14.3	-96.74	394.0	-1,403.6	802.1	779.9	22.19	36.145	
10,700.0	10,647.4	10,745.1	10,608.2	13.4	14.4	-96.59	395.5	-1,408.6	806.9	784.5	22.35	36.100	
10,800.0	10,747.4	10,844.9	10,707.9	13.5	14.4	-96.45	396.9	-1,413.6	811.7	789.2	22.51	36.055	
10,900.0	10,847.4	10,944.8	10,807.6	13.6	14.5	-96.31	398.4	-1,418.7	816.5	793.9	22.68	36.009	
10,970.1	10,917.5	11,014.8	10,877.5	13.7	14.6	-96.21	399.4	-1,422.2	819.9	797.0	22.90	35.811	
10,975.0	10,922.4	11,019.7	10,882.4	13.7	14.5	84.08	399.5	-1,422.4	820.2	797.3	22.90	35.812	
11,000.0	10,947.4	11,044.6	10,907.3	13.7	14.5	84.04	399.8	-1,423.7	821.3	798.4	22.91	35.847	
11,025.0	10,972.3	11,066.4	10,929.1	13.7	14.5	84.06	399.8	-1,424.8	822.3	799.4	22.93	35.858	
11,050.0	10,997.1	11,087.7	10,950.3	13.7	14.5	84.09	398.8	-1,425.8	823.3	800.4	22.96	35.853	
11,075.0	11,021.6	11,109.1	10,971.6	13.7	14.5	84.13	396.9	-1,426.9	824.3	801.3	23.00	35.844	
11,100.0	11,045.8	11,130.6	10,992.9	13.7	14.5	84.19	394.0	-1,427.9	825.3	802.2	23.03	35.830	
11,125.0	11,069.7	11,152.2	11,014.1	13.7	14.6	84.26	390.2	-1,429.0	826.2	803.1	23.07	35.812	
11,150.0	11,093.2	11,175.0	11,036.3	13.7	14.6	84.36	385.0	-1,430.1	827.1	804.0	23.10	35.802	
11,175.0	11,116.2	11,195.6	11,056.1	13.7	14.6	84.44	379.5	-1,431.0	828.0	804.9	23.15	35.765	
11,200.0	11,138.7	11,217.5	11,076.9	13.7	14.6	84.55	372.7	-1,432.0	828.9	805.7	23.19	35.737	
11,225.0	11,160.5	11,239.6	11,097.5	13.8	14.6	84.68	364.8	-1,433.0	829.7	806.5	23.24	35.705	
11,250.0	11,181.7	11,261.7	11,117.8	13.8	14.6	84.82	356.0	-1,434.0	830.5	807.2	23.28	35.671	
11,275.0	11,202.1	11,284.0	11,137.8	13.8	14.6	84.97	346.2	-1,435.0	831.3	808.0	23.33	35.633	
11,300.0	11,221.8	11,306.5	11,157.5	13.8	14.6	85.13	335.4	-1,435.9	832.1	808.7	23.38	35.593	
11,325.0	11,240.6	11,329.1	11,176.7	13.8	14.6	85.31	323.6	-1,436.8	832.8	809.4	23.43	35.548	
11,350.0	11,258.6	11,351.9	11,195.5	13.9	14.6	85.50	310.8	-1,437.7	833.5	810.0	23.48	35.500	
11,375.0	11,275.6	11,375.0	11,214.0	13.9	14.7	85.70	296.9	-1,438.5	834.2	810.6	23.53	35.449	
11,400.0	11,291.6	11,398.0	11,231.7	13.9	14.7	85.91	282.2	-1,439.3	834.8	811.2	23.59	35.390	
11,425.0	11,306.7	11,421.3	11,248.8	13.9	14.7	86.13	266.4	-1,440.1	835.4	811.8	23.65	35.327	
11,450.0	11,320.6	11,444.9	11,265.4	14.0	14.7	86.37	249.6	-1,440.8	836.0	812.3	23.71	35.257	
11,475.0	11,333.4	11,468.7	11,281.2	14.0	14.7	86.61	231.9	-1,441.5	836.6	812.8	23.78	35.181	
11,500.0	11,345.1	11,492.7	11,296.3	14.0	14.7	86.87	213.3	-1,442.2	837.1	813.2	23.85	35.096	
11,525.0	11,355.7	11,516.9	11,310.5	14.0	14.8	87.13	193.7	-1,442.8	837.6	813.7	23.93	35.003	
11,550.0	11,365.0	11,541.3	11,323.9	14.1	14.8	87.40	173.2	-1,443.4	838.0	814.0	24.01	34.901	
11,575.0	11,373.1	11,566.1	11,336.3	14.1	14.8	87.68	151.9	-1,443.9	838.5	814.4	24.10	34.790	
11,600.0	11,379.9	11,591.0	11,347.7	14.1	14.8	87.97	129.7	-1,444.3	838.9	814.7	24.20	34.668	
11,625.0	11,385.5	11,616.3	11,358.1	14.1	14.8	88.27	106.6	-1,444.7	839.2	814.9	24.30	34.536	
11,650.0	11,389.8	11,641.8	11,367.3	14.1	14.9	88.57	82.9	-1,445.1	839.5	815.1	24.41	34.394	
11,675.0	11,392.8	11,667.6	11,375.3	14.2	14.9	88.87	58.3	-1,445.3	839.8	815.3	24.53	34.242	
11,700.0	11,394.5	11,693.7	11,382.0	14.2	14.9	89.19	33.1	-1,445.5	840.1	815.4	24.65	34.081	
11,720.1	11,395.0	11,714.8	11,386.5	14.2	14.9	89.44	12.5	-1,445.6	840.2	815.5	24.75	33.944	
11,800.0	11,395.0	11,801.5	11,395.0	14.2	15.0	90.02	-73.6	-1,445.6	840.6	815.4	25.22	33.330	
11,900.0	11,395.0	11,901.8	11,395.0	14.3	15.0	90.02	-174.0	-1,445.0	840.6	814.7	25.92	32.434	
12,000.0	11,395.0	12,001.8	11,395.0	14.4	15.0	90.02	-274.0	-1,444.5	840.6	813.9	26.71	31.475	
12,100.0	11,395.0	12,101.8	11,395.0	14.6	15.1	90.02	-374.0	-1,443.9	840.6	813.0	27.58	30.477	
12,200.0	11,395.0	12,201.8	11,395.0	14.7	15.3	90.02	-474.0	-1,443.4	840.6	812.0	28.53	29.463	
12,300.0	11,395.0	12,301.8	11,395.0	15.0	15.7	90.02	-574.0	-1,442.8	840.6	811.0	29.55	28.447	
12,400.0	11,395.0	12,401.8	11,395.0	15.3	16.1	90.02	-674.0	-1,442.3	840.5	809.9	30.63	27.444	
12,500.0	11,395.0	12,501.8	11,395.0	15.8	16.6	90.02	-774.0	-1,441.8	840.5	808.8	31.76	26.462	
12,600.0	11,395.0	12,601.8	11,395.0	16.3	17.1	90.02	-874.0	-1,441.2	840.5	807.6	32.95	25.510	
12,700.0	11,395.0	12,701.8	11,395.0	16.8	17.7	90.02	-974.0	-1,440.7	840.5	806.3	34.18	24.591	
12,800.0	11,395.0	12,801.8	11,395.0	17.4	18.3	90.02	-1,074.0	-1,440.1	840.5	805.1	35.45	23.710	
12,900.0	11,395.0	12,901.8	11,395.0	18.1	18.9	90.02	-1,174.0	-1,439.6	840.5	803.7	36.76	22.867	
13,000.0	11,395.0	13,001.8	11,395.0	18.7	19.5	90.02	-1,274.0	-1,439.0	840.5	802.4	38.09	22.063	
13,100.0	11,395.0	13,101.8	11,395.0	19.4	20.2	90.02	-1,374.0	-1,438.5	840.5	801.0	39.46	21.298	

CC - Min centre to center distance or covergent 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 #11H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	**MD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #11H	**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 #9H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-Standard Keeper 104, 11048-MWD+IFR1+FDIR — **Rule Assigned:** — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset 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
13,200.0	11,395.0	13,201.8	11,395.0	20.1	20.8	90.02	-1,474.0	-1,437.9	840.5	799.6	40.86	20.572	
13,300.0	11,395.0	13,301.8	11,395.0	20.9	21.5	90.02	-1,574.0	-1,437.4	840.5	798.2	42.27	19.882	
13,400.0	11,395.0	13,401.8	11,395.0	21.6	22.2	90.02	-1,674.0	-1,436.8	840.5	796.7	43.71	19.227	
13,500.0	11,395.0	13,501.8	11,395.0	22.3	22.9	90.02	-1,774.0	-1,436.3	840.4	795.3	45.17	18.607	
13,600.0	11,395.0	13,601.8	11,395.0	23.1	23.6	90.02	-1,874.0	-1,435.7	840.4	793.8	46.64	18.018	
13,700.0	11,395.0	13,701.8	11,395.0	23.8	24.4	90.02	-1,974.0	-1,435.2	840.4	792.3	48.14	17.460	
13,800.0	11,395.0	13,801.8	11,395.0	24.6	25.1	90.02	-2,074.0	-1,434.6	840.4	790.8	49.64	16.930	
13,900.0	11,395.0	13,901.8	11,395.0	25.4	25.8	90.02	-2,174.0	-1,434.1	840.4	789.3	51.16	16.427	
14,000.0	11,395.0	14,001.8	11,395.0	26.2	26.6	90.02	-2,274.0	-1,433.5	840.4	787.7	52.69	15.950	
14,100.0	11,395.0	14,101.8	11,395.0	26.9	27.3	90.02	-2,374.0	-1,433.0	840.4	786.2	54.23	15.496	
14,200.0	11,395.0	14,201.8	11,395.0	27.7	28.1	90.02	-2,474.0	-1,432.4	840.4	784.6	55.78	15.065	
14,300.0	11,395.0	14,301.8	11,395.0	28.5	28.8	90.02	-2,574.0	-1,431.9	840.4	783.0	57.35	14.655	
14,400.0	11,395.0	14,401.8	11,395.0	29.3	29.6	90.02	-2,674.0	-1,431.3	840.4	781.4	58.92	14.264	
14,500.0	11,395.0	14,501.8	11,395.0	30.1	30.4	90.02	-2,774.0	-1,430.8	840.4	779.9	60.49	13.892	
14,600.0	11,395.0	14,601.8	11,395.0	30.9	31.2	90.02	-2,874.0	-1,430.2	840.3	778.3	62.08	13.537	
14,700.0	11,395.0	14,701.8	11,395.0	31.7	32.0	90.02	-2,974.0	-1,429.7	840.3	776.7	63.67	13.198	
14,800.0	11,395.0	14,801.8	11,395.0	32.5	32.7	90.02	-3,074.0	-1,429.1	840.3	775.1	65.27	12.875	
14,900.0	11,395.0	14,901.8	11,395.0	33.4	33.5	90.02	-3,174.0	-1,428.6	840.3	773.4	66.87	12.566	
15,000.0	11,395.0	15,001.8	11,395.0	34.2	34.3	90.02	-3,274.0	-1,428.1	840.3	771.8	68.48	12.271	
15,100.0	11,395.0	15,101.8	11,395.0	35.0	35.1	90.02	-3,374.0	-1,427.5	840.3	770.2	70.10	11.988	
15,200.0	11,395.0	15,201.8	11,395.0	35.8	35.9	90.02	-3,473.9	-1,427.0	840.3	768.6	71.71	11.717	
15,300.0	11,395.0	15,301.8	11,395.0	36.6	36.7	90.02	-3,573.9	-1,426.4	840.3	766.9	73.34	11.458	
15,400.0	11,395.0	15,401.8	11,395.0	37.5	37.5	90.02	-3,673.9	-1,425.9	840.3	765.3	74.97	11.209	
15,500.0	11,395.0	15,501.8	11,395.0	38.3	38.3	90.02	-3,773.9	-1,425.3	840.3	763.7	76.60	10.970	
15,600.0	11,395.0	15,601.8	11,395.0	39.1	39.1	90.02	-3,873.9	-1,424.8	840.3	762.0	78.23	10.741	
15,700.0	11,395.0	15,701.8	11,395.0	39.9	40.0	90.02	-3,973.9	-1,424.2	840.2	760.4	79.87	10.520	
15,800.0	11,395.0	15,801.8	11,395.0	40.8	40.8	90.02	-4,073.9	-1,423.7	840.2	758.7	81.51	10.308	
15,900.0	11,395.0	15,901.8	11,395.0	41.6	41.6	90.02	-4,173.9	-1,423.1	840.2	757.1	83.16	10.104	
16,000.0	11,395.0	16,001.8	11,395.0	42.4	42.4	90.02	-4,273.9	-1,422.6	840.2	755.4	84.80	9.908	
16,100.0	11,395.0	16,101.8	11,395.0	43.2	43.2	90.02	-4,373.9	-1,422.0	840.2	753.8	86.45	9.719	
16,200.0	11,395.0	16,201.8	11,395.0	44.1	44.0	90.02	-4,473.9	-1,421.5	840.2	752.1	88.11	9.536	
16,300.0	11,395.0	16,301.8	11,395.0	44.9	44.9	90.02	-4,573.9	-1,420.9	840.2	750.4	89.76	9.360	
16,400.0	11,395.0	16,401.8	11,395.0	45.7	45.7	90.02	-4,673.9	-1,420.4	840.2	748.8	91.42	9.190	
16,500.0	11,395.0	16,501.8	11,395.0	46.6	46.5	90.02	-4,773.9	-1,419.8	840.2	747.1	93.08	9.027	
16,600.0	11,395.0	16,601.8	11,395.0	47.4	47.3	90.02	-4,873.9	-1,419.3	840.2	745.4	94.74	8.868	
16,700.0	11,395.0	16,701.8	11,395.0	48.3	48.2	90.02	-4,973.9	-1,418.7	840.2	743.7	96.40	8.715	
16,800.0	11,395.0	16,801.8	11,395.0	49.1	49.0	90.02	-5,073.9	-1,418.2	840.1	742.1	98.07	8.567	
16,900.0	11,395.0	16,901.8	11,395.0	49.9	49.8	90.02	-5,173.9	-1,417.6	840.1	740.4	99.73	8.424	
17,000.0	11,395.0	17,001.8	11,395.0	50.8	50.6	90.02	-5,273.9	-1,417.1	840.1	738.7	101.40	8.285	
17,100.0	11,395.0	17,101.8	11,395.0	51.6	51.5	90.02	-5,373.9	-1,416.5	840.1	737.0	103.07	8.151	
17,200.0	11,395.0	17,201.8	11,395.0	52.5	52.3	90.02	-5,473.9	-1,416.0	840.1	735.4	104.74	8.021	
17,300.0	11,395.0	17,301.8	11,395.0	53.3	53.1	90.02	-5,573.9	-1,415.4	840.1	733.7	106.42	7.894	
17,400.0	11,395.0	17,401.8	11,395.0	54.1	54.0	90.02	-5,673.9	-1,414.9	840.1	732.0	108.09	7.772	
17,500.0	11,395.0	17,501.8	11,395.0	55.0	54.8	90.02	-5,773.9	-1,414.4	840.1	730.3	109.77	7.653	
17,600.0	11,395.0	17,601.8	11,395.0	55.8	55.6	90.02	-5,873.9	-1,413.8	840.1	728.6	111.44	7.538	
17,700.0	11,395.0	17,701.8	11,395.0	56.7	56.5	90.02	-5,973.9	-1,413.3	840.1	726.9	113.12	7.426	
17,800.0	11,395.0	17,801.8	11,395.0	57.5	57.3	90.02	-6,073.9	-1,412.7	840.1	725.3	114.80	7.317	
17,900.0	11,395.0	17,901.8	11,395.0	58.3	58.1	90.02	-6,173.9	-1,412.2	840.0	723.6	116.48	7.212	
18,000.0	11,395.0	18,001.8	11,395.0	59.2	59.0	90.02	-6,273.9	-1,411.6	840.0	721.9	118.16	7.109	
18,100.0	11,395.0	18,101.8	11,395.0	60.0	59.8	90.02	-6,373.9	-1,411.1	840.0	720.2	119.84	7.009	
18,200.0	11,395.0	18,201.8	11,395.0	60.9	60.6	90.02	-6,473.9	-1,410.5	840.0	718.5	121.53	6.912	
18,300.0	11,395.0	18,301.8	11,395.0	61.7	61.5	90.02	-6,573.9	-1,410.0	840.0	716.8	123.21	6.818	

CC - Min centre to center distance or covergent 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 #11H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	**MD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #11H	**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 #9H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-Standard Keeper 104, 11048-MWD+IFR1+FDIR — **Rule Assigned:** — **Offset Well Error:** 3.0 usft

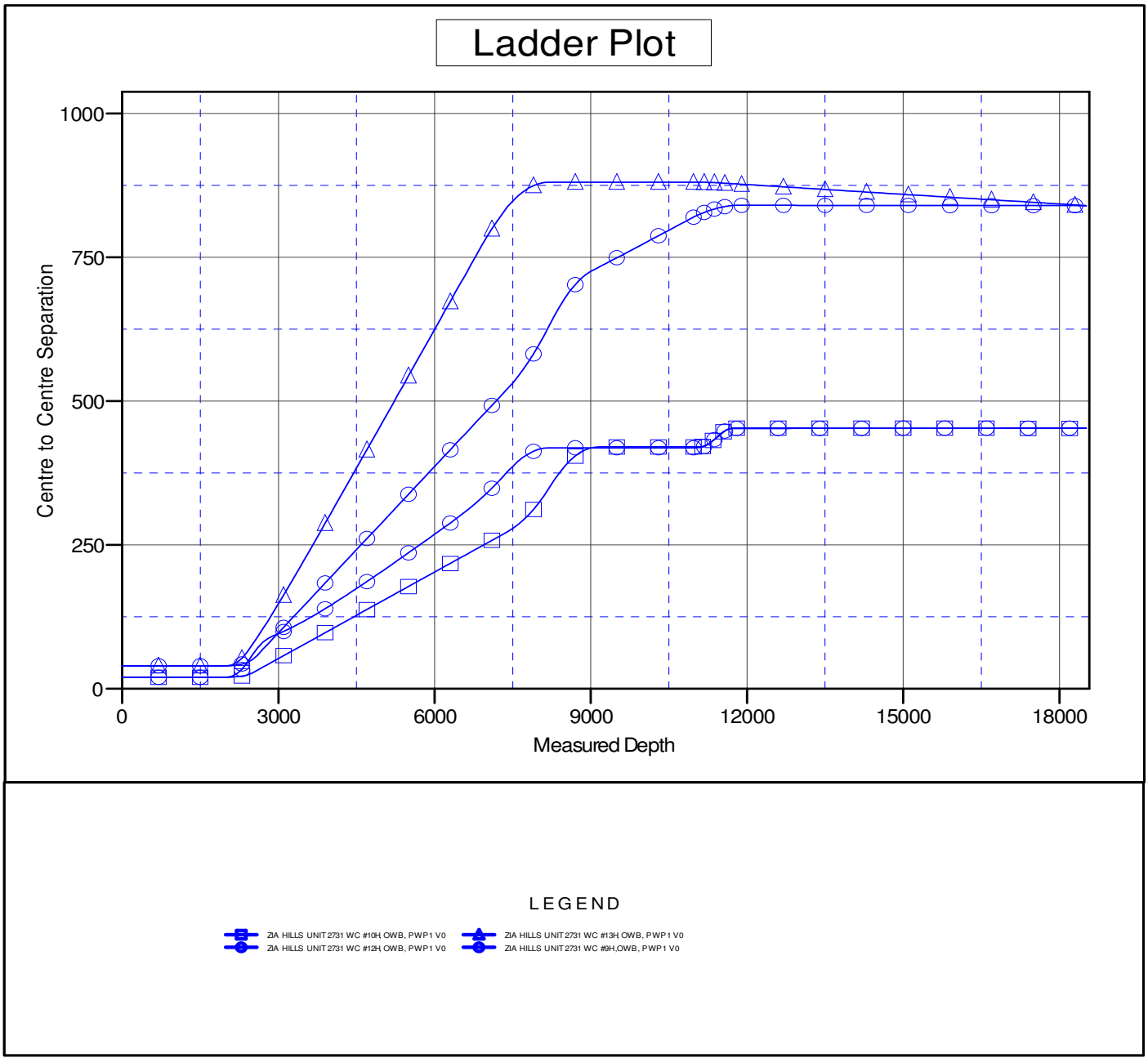
Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,400.0	11,395.0	18,401.8	11,395.0	62.6	62.3	90.02	-6,673.9	-1,409.4	840.0	715.1	124.90	6.726	
18,500.0	11,395.0	18,501.8	11,395.0	63.4	63.2	90.02	-6,773.9	-1,408.9	840.0	713.4	126.58	6.636	
18,518.5	11,395.0	18,520.3	11,395.0	63.6	63.3	90.02	-6,792.4	-1,408.8	840.0	713.1	126.89	6.620	

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 2731 WC #11H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	**MD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #11H	**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=30' @ 3175.9usft (SCAN QUEST
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

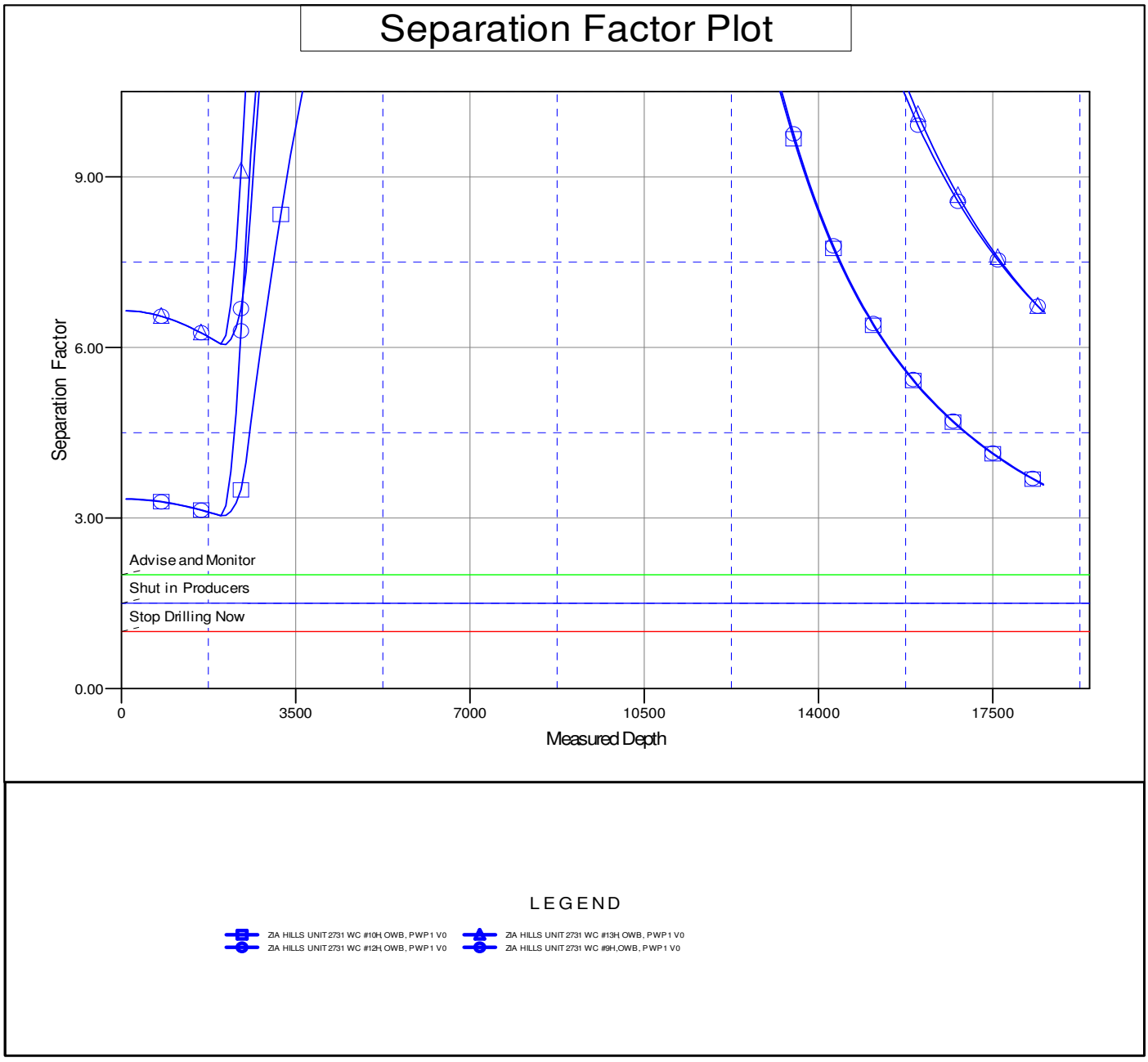
Coordinates are relative to: ZIA HILLS UNIT 2731 WC #11H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.30°



ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 2731 WC #11H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Reference Site:	ZIA HILLS UNIT 2731 PROJECT	**MD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 2731 WC #11H	**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=30' @ 3175.9usft (SCAN QUEST Coordinates are relative to: ZIA HILLS UNIT 2731 WC #11H
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Central Meridian is 104° 20' 0.000 W Grid Convergence at Surface is: 0.30°



DELAWARE BASIN EAST

LEA PROSPECT (NM-E)
ZIA HILLS UNIT 2731 PROJECT
ZIA HILLS UNIT 2731 WC #11H

OWB

Plan: PWP1

Standard Survey Report

28 March, 2022

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 2731 WC #11H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Site:	ZIA HILLS UNIT 2731 PROJECT	**MD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Well:	ZIA HILLS UNIT 2731 WC #11H	**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	**Latitude:**	32° 1' 14.475 N
From:	Map	**Easting:**	673,323.86 usft	**Longitude:**	103° 46' 26.734 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.30 °

Well ZIA HILLS UNIT 2731 WC #11H

Well Position	**+N/-S**	0.0 usft	**Northing:**	371,059.84 usft	**Latitude:**	32° 1' 7.882 N
	+E/-W	0.0 usft	**Easting:**	678,088.04 usft	**Longitude:**	103° 45' 31.437 W
Position Uncertainty		3.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,145.9 usft

Wellbore OWB

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2021	2/10/2022	6.49	59.58	47,445.57161776

Design PWP1

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	184.79

Survey Tool Program **Date** 3/28/2022

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	10,970.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
10,970.0	18,518.3	PWP1 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR 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 #11H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Site:	ZIA HILLS UNIT 2731 PROJECT	**MD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Well:	ZIA HILLS UNIT 2731 WC #11H	**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
Start Build 2.00									
2,100.0	2.00	308.75	2,100.0	1.1	-1.4	-1.0	2.00	2.00	0.00
2,200.0	4.00	308.75	2,199.8	4.4	-5.4	-3.9	2.00	2.00	0.00
2,300.0	6.00	308.75	2,299.5	9.8	-12.2	-8.8	2.00	2.00	0.00
2,400.0	8.00	308.75	2,398.7	17.5	-21.7	-15.6	2.00	2.00	0.00
Start 5000.8 hold at 2400.0 MD									
2,500.0	8.00	308.75	2,497.7	26.2	-32.6	-23.3	0.00	0.00	0.00
2,600.0	8.00	308.75	2,596.8	34.9	-43.4	-31.1	0.00	0.00	0.00
2,700.0	8.00	308.75	2,695.8	43.6	-54.3	-38.9	0.00	0.00	0.00
2,800.0	8.00	308.75	2,794.8	52.3	-65.2	-46.7	0.00	0.00	0.00
2,900.0	8.00	308.75	2,893.8	61.0	-76.0	-54.4	0.00	0.00	0.00
3,000.0	8.00	308.75	2,992.9	69.7	-86.9	-62.2	0.00	0.00	0.00
3,100.0	8.00	308.75	3,091.9	78.4	-97.7	-70.0	0.00	0.00	0.00
3,200.0	8.00	308.75	3,190.9	87.1	-108.6	-77.8	0.00	0.00	0.00
3,300.0	8.00	308.75	3,289.9	95.9	-119.4	-85.5	0.00	0.00	0.00
3,400.0	8.00	308.75	3,389.0	104.6	-130.3	-93.3	0.00	0.00	0.00
3,500.0	8.00	308.75	3,488.0	113.3	-141.1	-101.1	0.00	0.00	0.00
3,600.0	8.00	308.75	3,587.0	122.0	-152.0	-108.9	0.00	0.00	0.00
3,700.0	8.00	308.75	3,686.0	130.7	-162.8	-116.6	0.00	0.00	0.00
3,800.0	8.00	308.75	3,785.1	139.4	-173.7	-124.4	0.00	0.00	0.00
3,900.0	8.00	308.75	3,884.1	148.1	-184.5	-132.2	0.00	0.00	0.00
4,000.0	8.00	308.75	3,983.1	156.8	-195.4	-140.0	0.00	0.00	0.00
4,100.0	8.00	308.75	4,082.2	165.5	-206.3	-147.7	0.00	0.00	0.00
4,200.0	8.00	308.75	4,181.2	174.3	-217.1	-155.5	0.00	0.00	0.00
4,300.0	8.00	308.75	4,280.2	183.0	-228.0	-163.3	0.00	0.00	0.00
4,400.0	8.00	308.75	4,379.2	191.7	-238.8	-171.1	0.00	0.00	0.00
4,500.0	8.00	308.75	4,478.3	200.4	-249.7	-178.8	0.00	0.00	0.00
4,600.0	8.00	308.75	4,577.3	209.1	-260.5	-186.6	0.00	0.00	0.00
4,700.0	8.00	308.75	4,676.3	217.8	-271.4	-194.4	0.00	0.00	0.00
4,800.0	8.00	308.75	4,775.3	226.5	-282.2	-202.2	0.00	0.00	0.00
4,900.0	8.00	308.75	4,874.4	235.2	-293.1	-209.9	0.00	0.00	0.00
5,000.0	8.00	308.75	4,973.4	243.9	-303.9	-217.7	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 2731 WC #11H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Site:	ZIA HILLS UNIT 2731 PROJECT	**MD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Well:	ZIA HILLS UNIT 2731 WC #11H	**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	308.75	5,072.4	252.7	-314.8	-225.5	0.00	0.00	0.00
5,200.0	8.00	308.75	5,171.5	261.4	-325.6	-233.3	0.00	0.00	0.00
5,300.0	8.00	308.75	5,270.5	270.1	-336.5	-241.0	0.00	0.00	0.00
5,400.0	8.00	308.75	5,369.5	278.8	-347.4	-248.8	0.00	0.00	0.00
5,500.0	8.00	308.75	5,468.5	287.5	-358.2	-256.6	0.00	0.00	0.00
5,600.0	8.00	308.75	5,567.6	296.2	-369.1	-264.4	0.00	0.00	0.00
5,700.0	8.00	308.75	5,666.6	304.9	-379.9	-272.1	0.00	0.00	0.00
5,800.0	8.00	308.75	5,765.6	313.6	-390.8	-279.9	0.00	0.00	0.00
5,900.0	8.00	308.75	5,864.6	322.4	-401.6	-287.7	0.00	0.00	0.00
6,000.0	8.00	308.75	5,963.7	331.1	-412.5	-295.5	0.00	0.00	0.00
6,100.0	8.00	308.75	6,062.7	339.8	-423.3	-303.2	0.00	0.00	0.00
6,200.0	8.00	308.75	6,161.7	348.5	-434.2	-311.0	0.00	0.00	0.00
6,300.0	8.00	308.75	6,260.7	357.2	-445.0	-318.8	0.00	0.00	0.00
6,400.0	8.00	308.75	6,359.8	365.9	-455.9	-326.6	0.00	0.00	0.00
6,500.0	8.00	308.75	6,458.8	374.6	-466.7	-334.3	0.00	0.00	0.00
6,600.0	8.00	308.75	6,557.8	383.3	-477.6	-342.1	0.00	0.00	0.00
6,700.0	8.00	308.75	6,656.9	392.0	-488.4	-349.9	0.00	0.00	0.00
6,800.0	8.00	308.75	6,755.9	400.8	-499.3	-357.7	0.00	0.00	0.00
6,900.0	8.00	308.75	6,854.9	409.5	-510.2	-365.4	0.00	0.00	0.00
7,000.0	8.00	308.75	6,953.9	418.2	-521.0	-373.2	0.00	0.00	0.00
7,100.0	8.00	308.75	7,053.0	426.9	-531.9	-381.0	0.00	0.00	0.00
7,200.0	8.00	308.75	7,152.0	435.6	-542.7	-388.8	0.00	0.00	0.00
7,300.0	8.00	308.75	7,251.0	444.3	-553.6	-396.5	0.00	0.00	0.00
7,400.8	8.00	308.75	7,350.9	453.1	-564.5	-404.4	0.00	0.00	0.00
Start Drop -1.00									
7,500.0	7.01	308.75	7,449.2	461.2	-574.6	-411.6	1.00	-1.00	0.00
7,600.0	6.01	308.75	7,548.5	468.3	-583.5	-417.9	1.00	-1.00	0.00
7,700.0	5.01	308.75	7,648.1	474.3	-590.9	-423.3	1.00	-1.00	0.00
7,800.0	4.01	308.75	7,747.8	479.2	-597.1	-427.7	1.00	-1.00	0.00
7,900.0	3.01	308.75	7,847.6	483.1	-601.8	-431.1	1.00	-1.00	0.00
8,000.0	2.01	308.75	7,947.5	485.8	-605.3	-433.6	1.00	-1.00	0.00
8,100.0	1.01	308.75	8,047.4	487.4	-607.3	-435.0	1.00	-1.00	0.00
8,200.8	0.00	0.00	8,148.3	488.0	-608.0	-435.5	1.00	-1.00	0.00
Start 2769.2 hold at 8200.8 MD									
8,300.0	0.00	0.00	8,247.4	488.0	-608.0	-435.5	0.00	0.00	0.00
8,400.0	0.00	0.00	8,347.4	488.0	-608.0	-435.5	0.00	0.00	0.00
8,500.0	0.00	0.00	8,447.4	488.0	-608.0	-435.5	0.00	0.00	0.00
8,600.0	0.00	0.00	8,547.4	488.0	-608.0	-435.5	0.00	0.00	0.00
8,700.0	0.00	0.00	8,647.4	488.0	-608.0	-435.5	0.00	0.00	0.00
8,800.0	0.00	0.00	8,747.4	488.0	-608.0	-435.5	0.00	0.00	0.00
8,900.0	0.00	0.00	8,847.4	488.0	-608.0	-435.5	0.00	0.00	0.00
9,000.0	0.00	0.00	8,947.4	488.0	-608.0	-435.5	0.00	0.00	0.00
9,100.0	0.00	0.00	9,047.4	488.0	-608.0	-435.5	0.00	0.00	0.00
9,200.0	0.00	0.00	9,147.4	488.0	-608.0	-435.5	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 2731 WC #11H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Site:	ZIA HILLS UNIT 2731 PROJECT	**MD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Well:	ZIA HILLS UNIT 2731 WC #11H	**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)
9,300.0	0.00	0.00	9,247.4	488.0	-608.0	-435.5	0.00	0.00	0.00
9,400.0	0.00	0.00	9,347.4	488.0	-608.0	-435.5	0.00	0.00	0.00
9,500.0	0.00	0.00	9,447.4	488.0	-608.0	-435.5	0.00	0.00	0.00
9,600.0	0.00	0.00	9,547.4	488.0	-608.0	-435.5	0.00	0.00	0.00
9,700.0	0.00	0.00	9,647.4	488.0	-608.0	-435.5	0.00	0.00	0.00
9,800.0	0.00	0.00	9,747.4	488.0	-608.0	-435.5	0.00	0.00	0.00
9,900.0	0.00	0.00	9,847.4	488.0	-608.0	-435.5	0.00	0.00	0.00
10,000.0	0.00	0.00	9,947.4	488.0	-608.0	-435.5	0.00	0.00	0.00
10,100.0	0.00	0.00	10,047.4	488.0	-608.0	-435.5	0.00	0.00	0.00
10,200.0	0.00	0.00	10,147.4	488.0	-608.0	-435.5	0.00	0.00	0.00
10,300.0	0.00	0.00	10,247.4	488.0	-608.0	-435.5	0.00	0.00	0.00
10,400.0	0.00	0.00	10,347.4	488.0	-608.0	-435.5	0.00	0.00	0.00
10,500.0	0.00	0.00	10,447.4	488.0	-608.0	-435.5	0.00	0.00	0.00
10,600.0	0.00	0.00	10,547.4	488.0	-608.0	-435.5	0.00	0.00	0.00
10,700.0	0.00	0.00	10,647.4	488.0	-608.0	-435.5	0.00	0.00	0.00
10,800.0	0.00	0.00	10,747.4	488.0	-608.0	-435.5	0.00	0.00	0.00
10,900.0	0.00	0.00	10,847.4	488.0	-608.0	-435.5	0.00	0.00	0.00
10,970.1	0.00	0.00	10,917.5	488.0	-608.0	-435.5	0.00	0.00	0.00
Start DLS 12.00 TFO 179.69									
10,975.0	0.59	179.69	10,922.4	488.0	-608.0	-435.5	12.00	12.00	0.00
11,000.0	3.59	179.69	10,947.4	487.1	-608.0	-434.6	12.00	12.00	0.00
11,025.0	6.59	179.69	10,972.3	484.8	-608.0	-432.4	12.00	12.00	0.00
11,050.0	9.59	179.69	10,997.1	481.3	-608.0	-428.9	12.00	12.00	0.00
11,075.0	12.59	179.69	11,021.6	476.5	-607.9	-424.1	12.00	12.00	0.00
11,100.0	15.59	179.69	11,045.8	470.4	-607.9	-418.0	12.00	12.00	0.00
11,125.0	18.59	179.69	11,069.7	463.1	-607.9	-410.7	12.00	12.00	0.00
11,150.0	21.59	179.69	11,093.2	454.5	-607.8	-402.2	12.00	12.00	0.00
11,175.0	24.59	179.69	11,116.2	444.7	-607.8	-392.4	12.00	12.00	0.00
11,200.0	27.59	179.69	11,138.7	433.7	-607.7	-381.4	12.00	12.00	0.00
11,225.0	30.59	179.69	11,160.5	421.5	-607.6	-369.3	12.00	12.00	0.00
11,250.0	33.59	179.69	11,181.7	408.3	-607.6	-356.1	12.00	12.00	0.00
11,275.0	36.59	179.69	11,202.1	393.9	-607.5	-341.8	12.00	12.00	0.00
11,300.0	39.59	179.69	11,221.8	378.5	-607.4	-326.4	12.00	12.00	0.00
11,325.0	42.59	179.69	11,240.6	362.0	-607.3	-310.1	12.00	12.00	0.00
11,350.0	45.59	179.69	11,258.6	344.6	-607.2	-292.7	12.00	12.00	0.00
11,375.0	48.59	179.69	11,275.6	326.3	-607.1	-274.5	12.00	12.00	0.00
11,400.0	51.59	179.69	11,291.6	307.2	-607.0	-255.4	12.00	12.00	0.00
11,425.0	54.59	179.69	11,306.7	287.2	-606.9	-235.5	12.00	12.00	0.00
11,450.0	57.59	179.69	11,320.6	266.4	-606.8	-214.8	12.00	12.00	0.00
11,475.0	60.59	179.69	11,333.4	245.0	-606.7	-193.5	12.00	12.00	0.00
11,500.0	63.59	179.69	11,345.1	222.9	-606.6	-171.5	12.00	12.00	0.00
11,525.0	66.59	179.69	11,355.7	200.2	-606.4	-148.9	12.00	12.00	0.00
11,550.0	69.59	179.69	11,365.0	177.0	-606.3	-125.8	12.00	12.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 2731 WC #11H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Site:	ZIA HILLS UNIT 2731 PROJECT	**MD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Well:	ZIA HILLS UNIT 2731 WC #11H	**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)
11,575.0	72.59	179.69	11,373.1	153.4	-606.2	-102.2	12.00	12.00	0.00
11,600.0	75.59	179.69	11,379.9	129.3	-606.1	-78.3	12.00	12.00	0.00
11,625.0	78.59	179.69	11,385.5	105.0	-605.9	-54.0	12.00	12.00	0.00
11,650.0	81.59	179.69	11,389.8	80.4	-605.8	-29.5	12.00	12.00	0.00
11,675.0	84.59	179.69	11,392.8	55.5	-605.7	-4.8	12.00	12.00	0.00
11,700.0	87.59	179.69	11,394.5	30.6	-605.5	20.1	12.00	12.00	0.00
11,720.1	90.00	179.69	11,395.0	10.5	-605.4	40.0	12.00	12.00	0.00
Start 6798.4 hold at 11720.1 MD									
11,800.0	90.00	179.69	11,395.0	-69.4	-605.0	119.7	0.00	0.00	0.00
11,900.0	90.00	179.69	11,395.0	-169.4	-604.5	219.3	0.00	0.00	0.00
12,000.0	90.00	179.69	11,395.0	-269.4	-603.9	318.9	0.00	0.00	0.00
12,100.0	90.00	179.69	11,395.0	-369.4	-603.4	418.5	0.00	0.00	0.00
12,200.0	90.00	179.69	11,395.0	-469.4	-602.8	518.1	0.00	0.00	0.00
12,300.0	90.00	179.69	11,395.0	-569.4	-602.3	617.7	0.00	0.00	0.00
12,400.0	90.00	179.69	11,395.0	-669.4	-601.8	717.3	0.00	0.00	0.00
12,500.0	90.00	179.69	11,395.0	-769.4	-601.2	816.9	0.00	0.00	0.00
12,600.0	90.00	179.69	11,395.0	-869.4	-600.7	916.5	0.00	0.00	0.00
12,700.0	90.00	179.69	11,395.0	-969.4	-600.1	1,016.1	0.00	0.00	0.00
12,800.0	90.00	179.69	11,395.0	-1,069.4	-599.6	1,115.7	0.00	0.00	0.00
12,900.0	90.00	179.69	11,395.0	-1,169.4	-599.1	1,215.3	0.00	0.00	0.00
13,000.0	90.00	179.69	11,395.0	-1,269.4	-598.5	1,314.9	0.00	0.00	0.00
13,100.0	90.00	179.69	11,395.0	-1,369.4	-598.0	1,414.5	0.00	0.00	0.00
13,200.0	90.00	179.69	11,395.0	-1,469.4	-597.5	1,514.1	0.00	0.00	0.00
13,300.0	90.00	179.69	11,395.0	-1,569.4	-596.9	1,613.7	0.00	0.00	0.00
13,400.0	90.00	179.69	11,395.0	-1,669.4	-596.4	1,713.3	0.00	0.00	0.00
13,500.0	90.00	179.69	11,395.0	-1,769.4	-595.8	1,812.9	0.00	0.00	0.00
13,600.0	90.00	179.69	11,395.0	-1,869.4	-595.3	1,912.5	0.00	0.00	0.00
13,700.0	90.00	179.69	11,395.0	-1,969.4	-594.8	2,012.2	0.00	0.00	0.00
13,800.0	90.00	179.69	11,395.0	-2,069.4	-594.2	2,111.8	0.00	0.00	0.00
13,900.0	90.00	179.69	11,395.0	-2,169.4	-593.7	2,211.4	0.00	0.00	0.00
14,000.0	90.00	179.69	11,395.0	-2,269.4	-593.1	2,311.0	0.00	0.00	0.00
14,100.0	90.00	179.69	11,395.0	-2,369.4	-592.6	2,410.6	0.00	0.00	0.00
14,200.0	90.00	179.69	11,395.0	-2,469.4	-592.1	2,510.2	0.00	0.00	0.00
14,300.0	90.00	179.69	11,395.0	-2,569.4	-591.5	2,609.8	0.00	0.00	0.00
14,400.0	90.00	179.69	11,395.0	-2,669.4	-591.0	2,709.4	0.00	0.00	0.00
14,500.0	90.00	179.69	11,395.0	-2,769.4	-590.5	2,809.0	0.00	0.00	0.00
14,600.0	90.00	179.69	11,395.0	-2,869.4	-589.9	2,908.6	0.00	0.00	0.00
14,700.0	90.00	179.69	11,395.0	-2,969.4	-589.4	3,008.2	0.00	0.00	0.00
14,800.0	90.00	179.69	11,395.0	-3,069.4	-588.8	3,107.8	0.00	0.00	0.00
14,900.0	90.00	179.69	11,395.0	-3,169.3	-588.3	3,207.4	0.00	0.00	0.00
15,000.0	90.00	179.69	11,395.0	-3,269.3	-587.8	3,307.0	0.00	0.00	0.00
15,100.0	90.00	179.69	11,395.0	-3,369.3	-587.2	3,406.6	0.00	0.00	0.00
15,200.0	90.00	179.69	11,395.0	-3,469.3	-586.7	3,506.2	0.00	0.00	0.00
15,300.0	90.00	179.69	11,395.0	-3,569.3	-586.1	3,605.8	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 2731 WC #11H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Site:	ZIA HILLS UNIT 2731 PROJECT	**MD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Well:	ZIA HILLS UNIT 2731 WC #11H	**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)
15,400.0	90.00	179.69	11,395.0	-3,669.3	-585.6	3,705.4	0.00	0.00	0.00
15,500.0	90.00	179.69	11,395.0	-3,769.3	-585.1	3,805.0	0.00	0.00	0.00
15,600.0	90.00	179.69	11,395.0	-3,869.3	-584.5	3,904.6	0.00	0.00	0.00
15,700.0	90.00	179.69	11,395.0	-3,969.3	-584.0	4,004.2	0.00	0.00	0.00
15,800.0	90.00	179.69	11,395.0	-4,069.3	-583.4	4,103.8	0.00	0.00	0.00
15,900.0	90.00	179.69	11,395.0	-4,169.3	-582.9	4,203.4	0.00	0.00	0.00
16,000.0	90.00	179.69	11,395.0	-4,269.3	-582.4	4,303.1	0.00	0.00	0.00
16,100.0	90.00	179.69	11,395.0	-4,369.3	-581.8	4,402.7	0.00	0.00	0.00
16,200.0	90.00	179.69	11,395.0	-4,469.3	-581.3	4,502.3	0.00	0.00	0.00
16,300.0	90.00	179.69	11,395.0	-4,569.3	-580.8	4,601.9	0.00	0.00	0.00
16,400.0	90.00	179.69	11,395.0	-4,669.3	-580.2	4,701.5	0.00	0.00	0.00
16,500.0	90.00	179.69	11,395.0	-4,769.3	-579.7	4,801.1	0.00	0.00	0.00
16,600.0	90.00	179.69	11,395.0	-4,869.3	-579.1	4,900.7	0.00	0.00	0.00
16,700.0	90.00	179.69	11,395.0	-4,969.3	-578.6	5,000.3	0.00	0.00	0.00
16,800.0	90.00	179.69	11,395.0	-5,069.3	-578.1	5,099.9	0.00	0.00	0.00
16,900.0	90.00	179.69	11,395.0	-5,169.3	-577.5	5,199.5	0.00	0.00	0.00
17,000.0	90.00	179.69	11,395.0	-5,269.3	-577.0	5,299.1	0.00	0.00	0.00
17,100.0	90.00	179.69	11,395.0	-5,369.3	-576.4	5,398.7	0.00	0.00	0.00
17,200.0	90.00	179.69	11,395.0	-5,469.3	-575.9	5,498.3	0.00	0.00	0.00
17,300.0	90.00	179.69	11,395.0	-5,569.3	-575.4	5,597.9	0.00	0.00	0.00
17,400.0	90.00	179.69	11,395.0	-5,669.3	-574.8	5,697.5	0.00	0.00	0.00
17,500.0	90.00	179.69	11,395.0	-5,769.3	-574.3	5,797.1	0.00	0.00	0.00
17,600.0	90.00	179.69	11,395.0	-5,869.3	-573.7	5,896.7	0.00	0.00	0.00
17,700.0	90.00	179.69	11,395.0	-5,969.3	-573.2	5,996.3	0.00	0.00	0.00
17,800.0	90.00	179.69	11,395.0	-6,069.3	-572.7	6,095.9	0.00	0.00	0.00
17,900.0	90.00	179.69	11,395.0	-6,169.3	-572.1	6,195.5	0.00	0.00	0.00
18,000.0	90.00	179.69	11,395.0	-6,269.3	-571.6	6,295.1	0.00	0.00	0.00
18,100.0	90.00	179.69	11,395.0	-6,369.3	-571.1	6,394.7	0.00	0.00	0.00
18,200.0	90.00	179.69	11,395.0	-6,469.3	-570.5	6,494.3	0.00	0.00	0.00
18,300.0	90.00	179.69	11,395.0	-6,569.3	-570.0	6,594.0	0.00	0.00	0.00
18,400.0	90.00	179.69	11,395.0	-6,669.3	-569.4	6,693.6	0.00	0.00	0.00
18,500.0	90.00	179.69	11,395.0	-6,769.3	-568.9	6,793.2	0.00	0.00	0.00
18,518.5	90.00	179.69	11,395.0	-6,787.7	-568.8	6,811.5	0.00	0.00	0.00
TD at 18518.5									

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 2731 WC #11H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Site:	ZIA HILLS UNIT 2731 PROJECT	**MD Reference:**	KB=30' @ 3175.9usft (SCAN QUEST)
Well:	ZIA HILLS UNIT 2731 WC #11H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP1	**Database:**	EDT 15 Central Prod

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(ZIA HILLS UNIT - plan misses target center by 256.5usft at 11306.0usft MD (11226.4 TVD, 374.6 N, -607.4 E) - Circle (radius 50.0)	0.00	0.00	11,395.0	568.0	-608.0	371,627.82	677,480.06	32° 1' 13.534 N	103° 45' 38.464 W
LTP(ZIA HILLS UNIT : - plan hits target center - Point	0.00	0.00	11,395.0	-6,737.7	-569.1	364,322.09	677,518.97	32° 0' 1.233 N	103° 45' 38.461 W
PBHL(ZIA HILLS UNI - plan hits target center - Rectangle (sides W100.0 H7,400.0 D20.0)	0.00	359.70	11,395.0	-6,787.7	-568.8	364,272.09	677,519.24	32° 0' 0.738 N	103° 45' 38.461 W

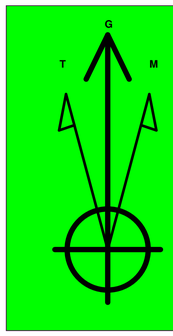
Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
2000	2000	0	0	Start Build 2.00
2400	2399	17	-22	Start 5000.8 hold at 2400.0 MD
7401	7351	453	-565	Start Drop -1.00
8201	8148	488	-608	Start 2769.2 hold at 8200.8 MD
10,970	10,917	488	-608	Start DLS 12.00 TFO 179.69
11,720	11,395	11	-605	Start 6798.4 hold at 11720.1 MD
18,518	11,395	-6788	-569	TD at 18518.5

Checked By: _____ Approved By: _____ Date: _____

ConocoPhillips

Project: LEA PROSPECT (NM-E)
Site: ZIA HILLS UNIT 2731 PROJECT
Well: ZIA HILLS UNIT 2731 WC #11H
Wellbore: OWB
Design: PWP1
GL: 3145.9
KB=30' @ 3175.9usft (SCAN QUEST)



Azimuths to Grid North
True North: -0.30°
Magnetic North: 6.19°

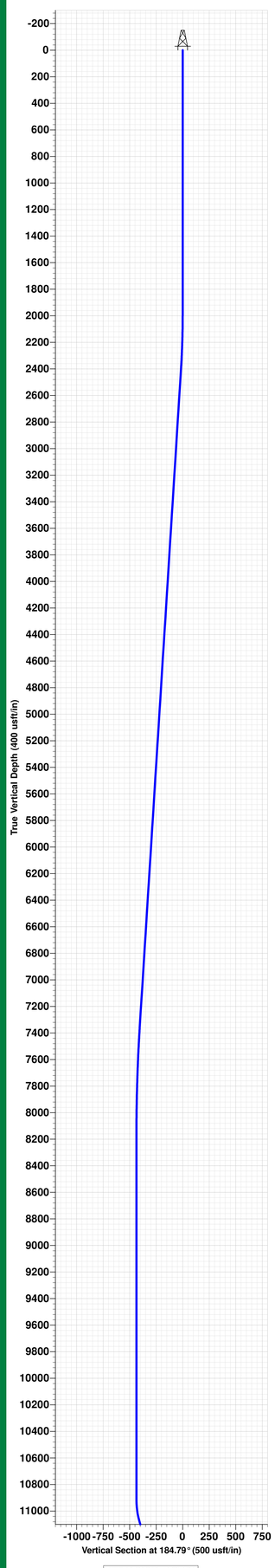
Magnetic Field
Strength: 47445.6nT
Dip Angle: 59.58°
Date: 2/10/2022
Model: BGGM2021

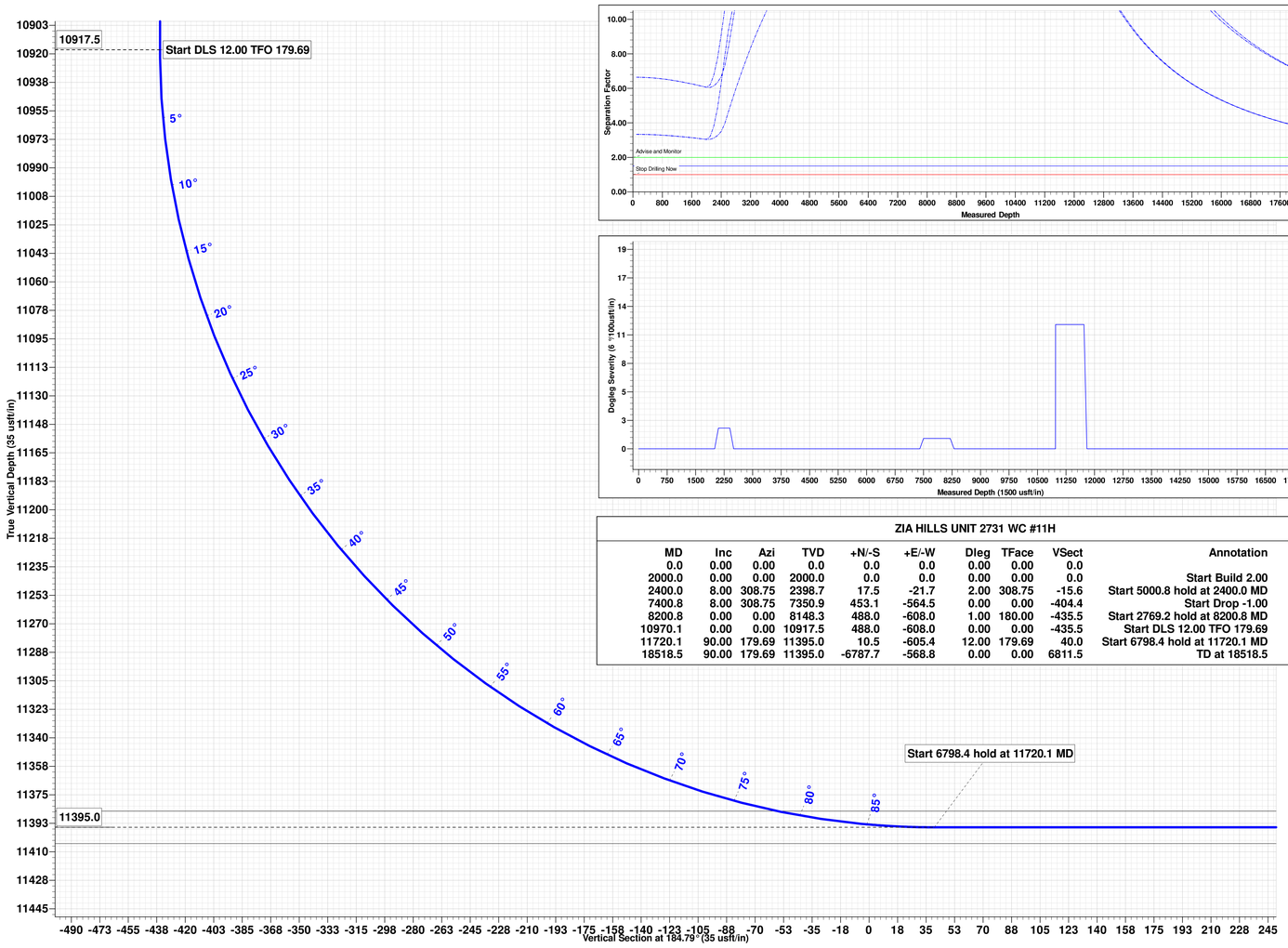
WELL DETAILS: ZIA HILLS UNIT 2731 WC #11H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	371059.84	678088.04	32° 1' 7.882 N	103° 45' 31.437 W

DESIGN TARGET DETAILS

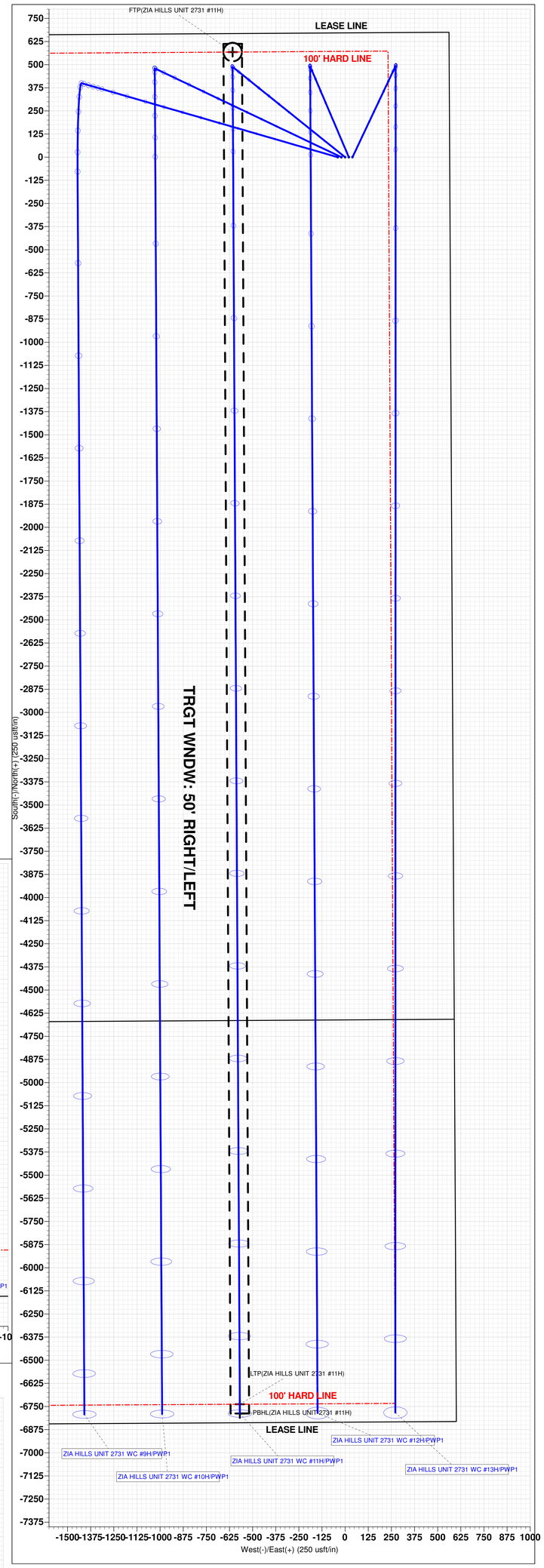
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP(ZIA HILLS UNIT 2731 #11H)	11395.0	568.0	-608.0	371627.82	677480.06	32° 1' 13.534 N	103° 45' 38.464 W
LTP(ZIA HILLS UNIT 2731 #11H)	11395.0	-6737.8	-569.1	364322.09	677518.97	32° 0' 1.233 N	103° 45' 38.461 W
PBHL(ZIA HILLS UNIT 2731 #11H)	11395.0	-6787.7	-568.8	364272.09	677519.24	32° 0' 0.738 N	103° 45' 38.461 W

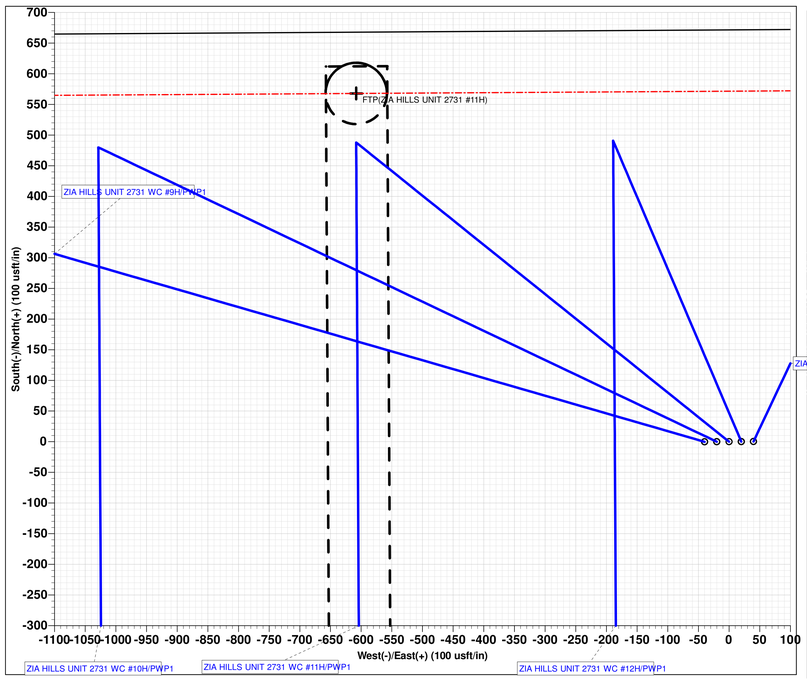


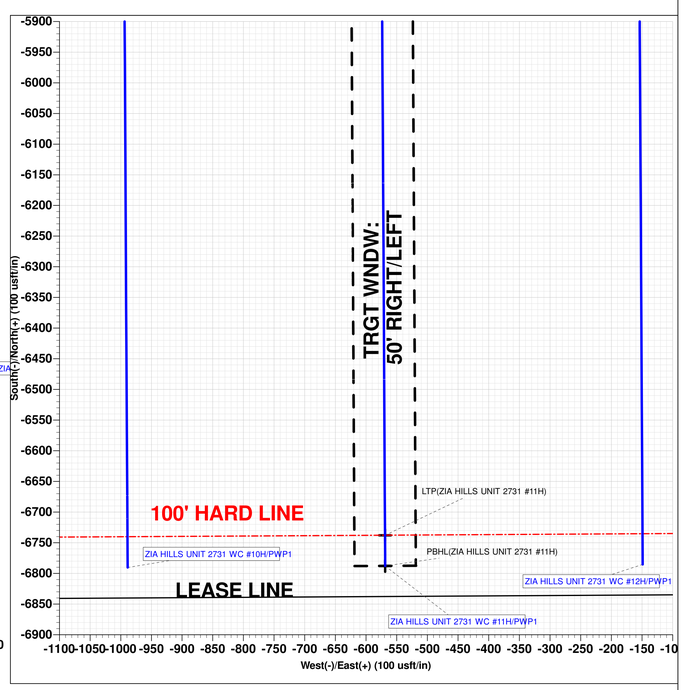


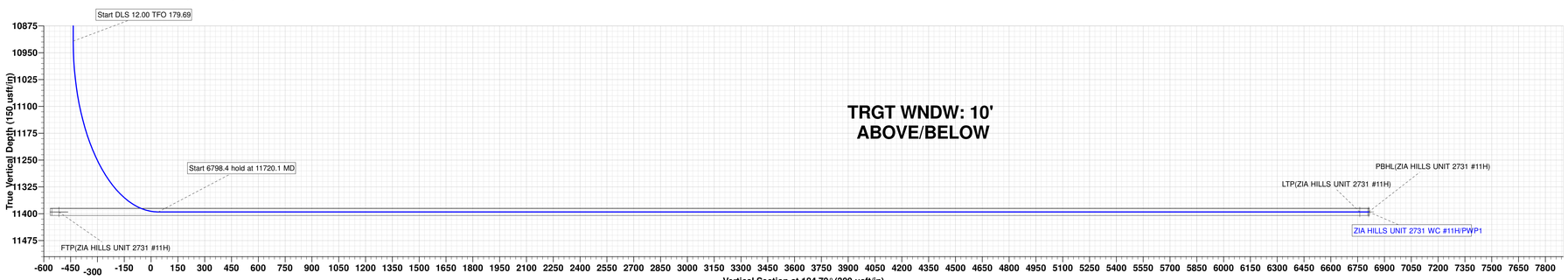
ZIA HILLS UNIT 2731 WC #11H

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	
2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2400.0	8.00	308.75	2398.7	17.5	-21.7	2.00	308.75	-15.6	Start 5000.8 hold at 2400.0 MD
7400.8	8.00	308.75	7350.9	453.1	-564.5	0.00	0.00	-404.4	Start Drop -1.00
8200.8	0.00	0.00	8148.3	488.0	-608.0	1.00	180.00	-435.5	Start 2769.2 hold at 8200.8 MD
10970.1	0.00	0.00	10917.5	488.0	-608.0	0.00	0.00	-435.5	Start DLS 12.00 TFO 179.69
11720.1	90.00	179.69	11395.0	10.5	-605.4	12.00	179.69	40.0	Start 6798.4 hold at 11720.1 MD
18518.5	90.00	179.69	11395.0	-6787.7	-568.8	0.00	0.00	6811.5	TD at 18518.5



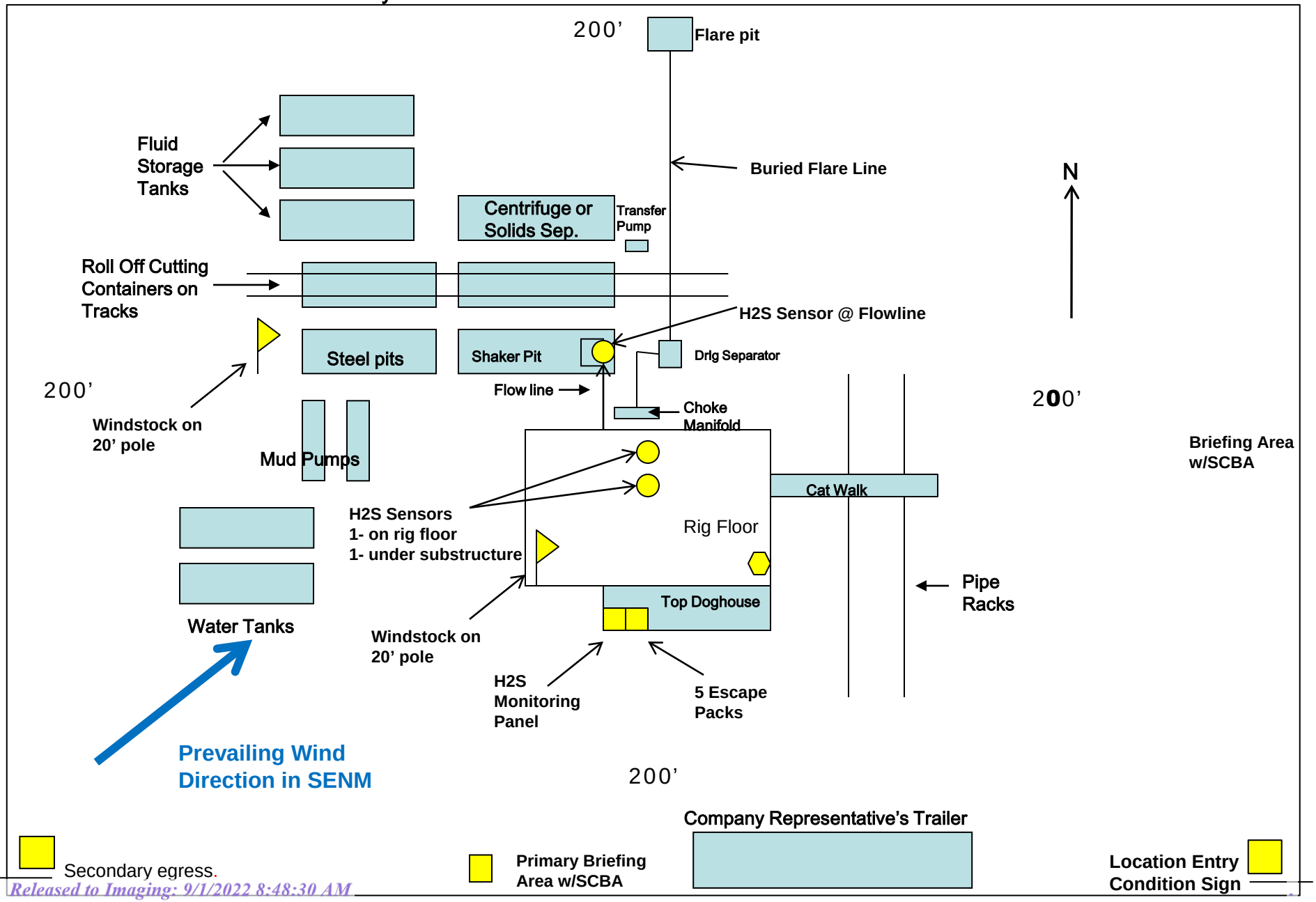






COG Operating LLC
H_2S Equipment Schematic
Terrain: Shinnery sand hills.

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 (H_2S).
b. The proper use and maintenance of personal protective equipment and life support systems.
c. The proper use of H_2S 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 H_2S 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. H_2S SAFETY EQUIPMENT AND SYSTEMS

Note: All H_2S 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 H_2S 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

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

EMERGENCY RESPONSE NUMBERS

	OFFICE
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 139882

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 139882
	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	9/1/2022
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	9/1/2022
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	9/1/2022
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	9/1/2022
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	9/1/2022