

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

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

1a. Type of work: ☐ DRILL ☐ REENTER 1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No.
2. Name of Operator		9. API Well No. 30-015-49930
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.



(Continued on page 2)

*(Instructions on page 2)

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015- 49930		2 Pool Code 98081	3 Pool Name Zia Hills; Wolfcamp
4 Property Code 333233	5 Property Name ZIA HILLS UNIT 2731 WC		6 Well Number 12H
7 OGRID No. 217817	8 Operator Name CONOCOPHILLIPS COMPANY		9 Elevation 3145.87'

¹⁰ Surface Location

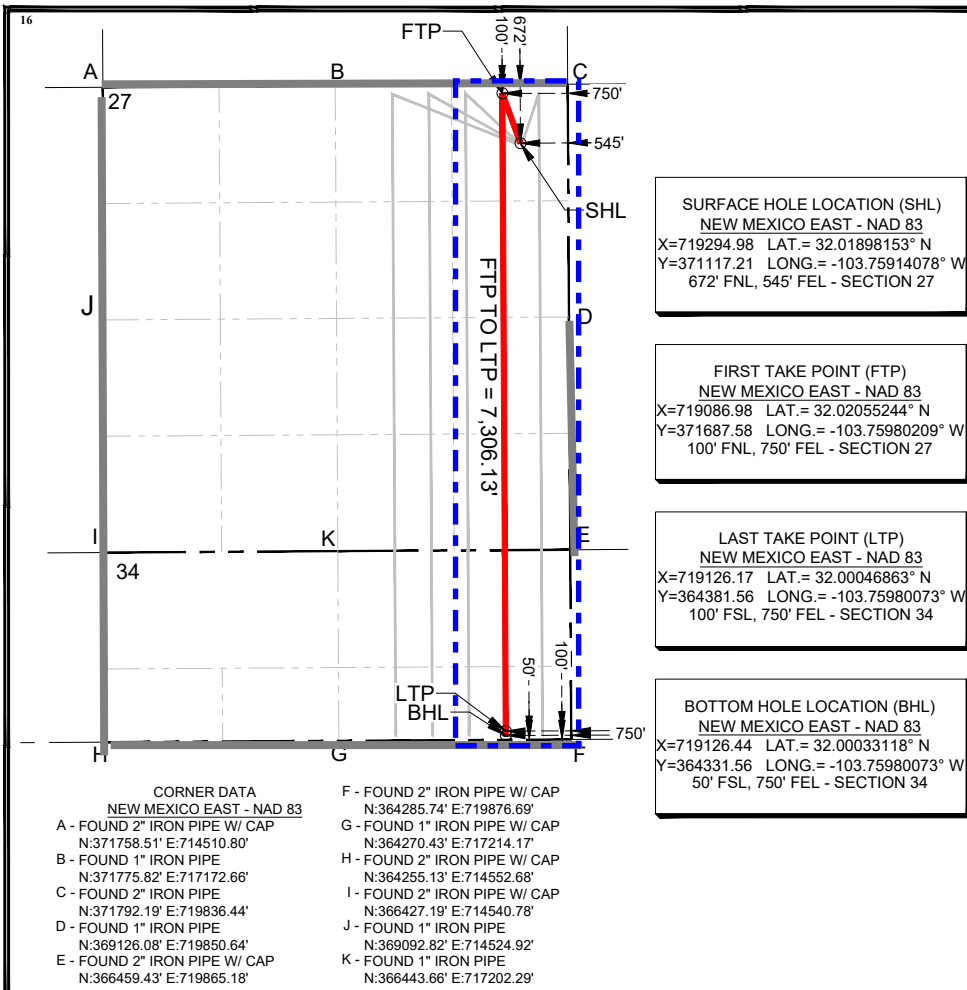
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	27	26-S	31-E		672'	NORTH	545'	EAST	EDDY

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	750'	EAST	EDDY

12 Dedicated Acres 13,383.35 Unit	13 Joint or Infill Infill	14 Consolidation Code Unit	15 Order No. R-20080
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



17 OPERATOR CERTIFICATION

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

Stan Wagner 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:

Certificate Number

3/8/2022

Additional Operator Remarks

Location of Well

0. SHL: NENE / 672 FNL / 545 FEL / TWSP: 26S / RANGE: 31E / SECTION: 27 / LAT: 32.018981 / LONG: -103.75914 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 100 FNL / 750 FEL / TWSP: 26S / RANGE: 31E / SECTION: 27 / LAT: 32.020552 / LONG: -103.759802 (TVD: 11399 feet, MD: 11461 feet)

BHL: LOT 1 / 50 FSL / 750 FEL / TWSP: 26S / RANGE: 31E / SECTION: 34 / LAT: 32.000331 / LONG: -103.7598 (TVD: 11566 feet, MD: 18672 feet)

BLM Point of Contact

Name: CIJI METHOLA

Title: GIS Support - Adjudicator

Phone: (575) 234-5924

Email: cmethola@blm.gov

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

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

WELL NAME & NO.:	Zia Hills Unit 2731 WC 12H
SURFACE HOLE FOOTAGE:	672'N & 545'E
BOTTOM HOLE FOOTAGE:	50'S & 750'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 integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

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

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

ZS 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

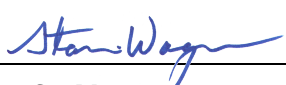
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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: 
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 12H

1. Geologic Formations

TVD of target	11,566' EOL	Pilot hole depth	NA
MD at TD:	18,672'	Deepest expected fresh water:	250'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	819	Water	
Top of Salt	1128	Salt	
Base of Salt	3800	Salt	
Lamar	4000	Salt Water	
Bell Canyon	4031	Salt Water	
Cherry Canyon	4990	Oil/Gas	
Brushy Canyon	6269	Oil/Gas	
Bone spring	8010	Oil/Gas	
1st Bone Spring Sand	9028	Oil/Gas	
2nd Bone Spring Sand	9618	Oil/Gas	
3rd Bone Spring Carbonate	10167	Oil/Gas	
3rd Bone Spring Sand	10854	Oil/Gas	
Wolfcamp	11241	Oil/Gas	
Wolfcamp A	11459	Target	
Wolfcamp B	11779	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	950	10.75"	45.5	J-55	BTC	4.81	1.15	18.42	18.42
9.875"	0	8000	7.625"	29.7	L80	BTC	1.51	1.08	2.13	2.24
8.750"	8000	10800	7.625"	29.7	P110	Wedge 513	1.39	1.53	2.93	1.76
6.75"	0	10600	5.5"	23	P110	TXP BTC	1.93	2.28	2.74	2.74
6.75"	10600	18,672	5.5"	23	P110	Wedge 441	1.93	2.28	2.74	2.49
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 12H

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

ConocoPhillips Company - Zia Hills Unit 2731 WC 12H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	453	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	780	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	492	12.7	2	10.7	72	Lead: 50:50:10 H Blend
	761	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

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

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

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

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

ConocoPhillips Company - Zia Hills Unit 2731 WC 12H

4. Pressure Control Equipment

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

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

ConocoPhillips Company - Zia Hills Unit 2731 WC 12H

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 12H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	7520 psi at 11566' 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	H ₂ S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

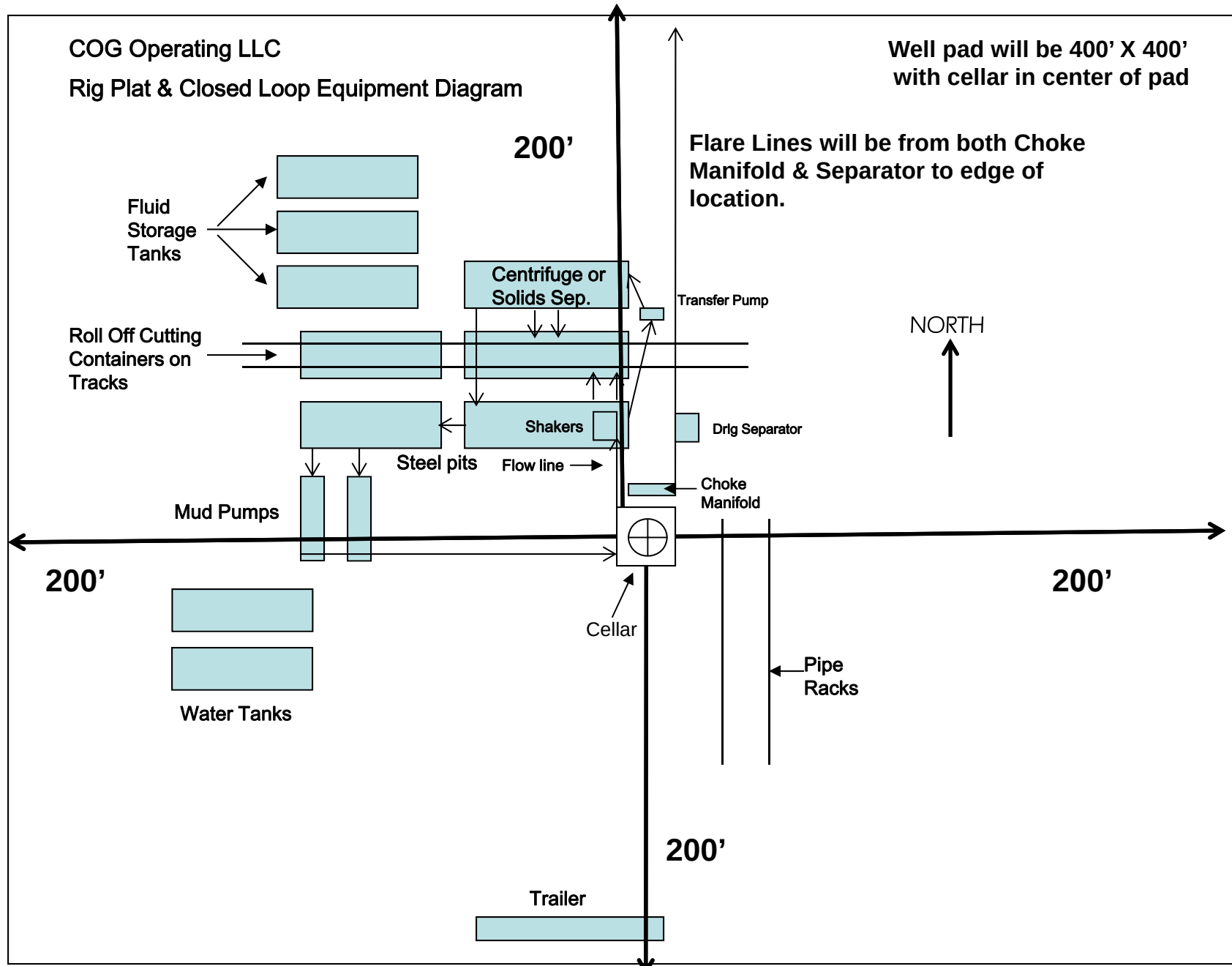


Exhibit 1

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

DELAWARE BASIN EAST

LEA PROSPECT (NM-E)

ZIA HILLS UNIT 2731 PROJECT

ZIA HILLS UNIT 2731 WC #12H

OWB

PWP1

Anticollision Report

28 March, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #12H
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 #12H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program		Date	3/28/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,124.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
11,124.0	18,671.6	PWP1 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction	

Summary						
Site Name Offset Well - Wellbore - Design	Reference	Offset	Distance		Separation	Warning
	Measured Depth (usft)	Measured Depth (usft)	Between Centres (usft)	Between Ellipses (usft)		
ZIA HILLS UNIT 2731 PROJECT						
ZIA HILLS UNIT 2731 WC #10H - OWB - PWP1	2,000.0	1,999.6	40.0	33.4	6.079	CC, ES, SF
ZIA HILLS UNIT 2731 WC #11H - 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	2,500.0	2,499.9	19.9	13.0	2.883	CC, ES, SF
ZIA HILLS UNIT 2731 WC #9H - OWB - PWP1	2,000.0	1,999.7	59.8	53.3	9.094	CC, ES, SF

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
ZIA HILLS UNIT 2731 PROJECT						
ZIA HILLS UNIT 2731 WC #10H - OWB - PWP1	18,672.6	18,722.9	840.0	713.0	6.617	
ZIA HILLS UNIT 2731 WC #11H - OWB - PWP1	18,672.6	18,518.2	453.5	327.4	3.596	
ZIA HILLS UNIT 2731 WC #13H - OWB - PWP1	18,672.6	18,499.5	453.1	327.3	3.603	
ZIA HILLS UNIT 2731 WC #9H - OWB - PWP1	18,672.6	18,520.1				Out of Range @TD

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #12H
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 #12H	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
0.0	0.0	0.0	0.0	3.0	3.0	-90.34	-0.2	-40.0	40.0						
100.0	100.0	99.6	99.6	3.0	3.0	-90.34	-0.2	-40.0	40.0	34.0	6.00	6.667			
200.0	200.0	199.6	199.6	3.0	3.0	-90.34	-0.2	-40.0	40.0	34.0	6.00	6.664			
300.0	300.0	299.6	299.6	3.0	3.0	-90.34	-0.2	-40.0	40.0	34.0	6.01	6.657			
400.0	400.0	399.6	399.6	3.0	3.0	-90.34	-0.2	-40.0	40.0	34.0	6.02	6.647			
500.0	500.0	499.6	499.6	3.1	3.1	-90.34	-0.2	-40.0	40.0	34.0	6.03	6.633			
600.0	600.0	599.6	599.6	3.1	3.1	-90.34	-0.2	-40.0	40.0	34.0	6.05	6.616			
700.0	700.0	699.6	699.6	3.1	3.1	-90.34	-0.2	-40.0	40.0	33.9	6.07	6.595			
800.0	800.0	799.6	799.6	3.2	3.2	-90.34	-0.2	-40.0	40.0	33.9	6.09	6.571			
900.0	900.0	899.6	899.6	3.2	3.2	-90.34	-0.2	-40.0	40.0	33.9	6.11	6.544			
1,000.0	1,000.0	999.6	999.6	3.2	3.2	-90.34	-0.2	-40.0	40.0	33.9	6.14	6.514			
1,100.0	1,100.0	1,099.6	1,099.6	3.3	3.3	-90.34	-0.2	-40.0	40.0	33.8	6.17	6.481			
1,200.0	1,200.0	1,199.6	1,199.6	3.4	3.4	-90.34	-0.2	-40.0	40.0	33.8	6.21	6.446			
1,300.0	1,300.0	1,299.6	1,299.6	3.4	3.4	-90.34	-0.2	-40.0	40.0	33.8	6.24	6.407			
1,400.0	1,400.0	1,399.6	1,399.6	3.5	3.5	-90.34	-0.2	-40.0	40.0	33.7	6.28	6.367			
1,500.0	1,500.0	1,499.6	1,499.6	3.5	3.5	-90.34	-0.2	-40.0	40.0	33.7	6.33	6.324			
1,600.0	1,600.0	1,599.6	1,599.6	3.6	3.6	-90.34	-0.2	-40.0	40.0	33.6	6.37	6.278			
1,700.0	1,700.0	1,699.6	1,699.6	3.7	3.7	-90.34	-0.2	-40.0	40.0	33.6	6.42	6.231			
1,800.0	1,800.0	1,799.6	1,799.6	3.8	3.8	-90.34	-0.2	-40.0	40.0	33.5	6.47	6.182			
1,900.0	1,900.0	1,899.6	1,899.6	3.9	3.9	-90.34	-0.2	-40.0	40.0	33.5	6.52	6.131			
2,000.0	2,000.0	1,999.6	1,999.6	3.9	3.9	-90.34	-0.2	-40.0	40.0	33.4	6.58	6.079 CC, ES, SF			
2,100.0	2,100.0	2,098.3	2,098.3	4.0	4.0	-89.33	0.5	-41.5	41.5	34.9	6.64	6.259			
2,200.0	2,200.0	2,196.8	2,196.7	4.1	4.1	-86.69	2.7	-46.1	46.3	39.6	6.71	6.899			
2,300.0	2,300.0	2,294.8	2,294.3	4.2	4.1	-83.33	6.3	-53.7	54.3	47.5	6.80	7.988			
2,400.0	2,400.0	2,392.2	2,390.9	4.3	4.2	-80.04	11.3	-64.2	65.8	58.8	6.91	9.513			
2,500.0	2,500.0	2,488.6	2,486.2	4.4	4.2	-77.19	17.6	-77.5	80.6	73.6	7.04	11.454			
2,600.0	2,600.0	2,587.0	2,583.1	4.5	4.3	-52.46	25.0	-92.9	96.6	89.4	7.17	13.468			
2,700.0	2,699.8	2,686.0	2,680.6	4.6	4.4	-52.67	32.3	-108.5	110.5	103.2	7.28	15.181			
2,800.0	2,799.5	2,785.2	2,778.4	4.7	4.4	-54.12	39.8	-124.0	122.3	115.0	7.36	16.624			
2,900.0	2,898.7	2,884.6	2,876.2	4.8	4.5	-56.56	47.2	-139.6	132.3	124.9	7.42	17.835			
3,000.0	2,997.7	2,983.9	2,974.0	4.9	4.6	-59.39	54.6	-155.2	141.7	134.2	7.48	18.945			
3,100.0	3,096.8	3,083.2	3,071.8	4.9	4.7	-61.87	62.0	-170.7	151.3	143.7	7.55	20.047			
3,200.0	3,195.8	3,182.6	3,169.7	5.0	4.7	-64.05	69.4	-186.3	161.2	153.6	7.63	21.133			
3,300.0	3,294.8	3,281.9	3,267.5	5.1	4.8	-65.98	76.8	-201.9	171.3	163.6	7.72	22.196			
3,400.0	3,393.8	3,381.2	3,365.3	5.2	4.9	-67.69	84.2	-217.5	181.5	173.7	7.81	23.233			
3,500.0	3,492.9	3,480.6	3,463.1	5.3	5.0	-69.22	91.6	-233.0	192.0	184.0	7.92	24.239			
3,600.0	3,591.9	3,579.9	3,561.0	5.4	5.1	-70.59	99.1	-248.6	202.5	194.5	8.03	25.212			
3,700.0	3,690.9	3,679.2	3,658.8	5.5	5.2	-71.83	106.5	-264.2	213.1	205.0	8.15	26.150			
3,800.0	3,789.9	3,778.6	3,756.6	5.6	5.3	-72.94	113.9	-279.8	223.8	215.6	8.27	27.051			
3,900.0	3,889.0	3,877.9	3,854.4	5.8	5.4	-73.96	121.3	-295.3	234.6	226.2	8.41	27.914			
4,000.0	3,988.0	3,977.2	3,952.2	5.9	5.5	-74.88	128.7	-310.9	245.5	237.0	8.54	28.739			
4,100.0	4,087.0	4,076.6	4,050.1	6.0	5.6	-75.73	136.1	-326.5	256.4	247.7	8.68	29.526			
4,200.0	4,186.0	4,175.9	4,147.9	6.1	5.7	-76.51	143.5	-342.1	267.4	258.6	8.83	30.275			
4,300.0	4,285.1	4,275.2	4,245.7	6.2	5.8	-77.23	150.9	-357.6	278.4	269.4	8.99	30.985			
4,400.0	4,384.1	4,374.6	4,343.5	6.3	5.9	-77.89	158.4	-373.2	289.5	280.3	9.14	31.659			
4,500.0	4,483.1	4,473.9	4,441.4	6.4	6.0	-78.50	165.8	-388.8	300.6	291.3	9.31	32.295			
4,600.0	4,582.2	4,573.2	4,539.2	6.5	6.1	-79.07	173.2	-404.4	311.7	302.2	9.48	32.896			
4,700.0	4,681.2	4,672.6	4,637.0	6.6	6.2	-79.60	180.6	-419.9	322.9	313.2	9.65	33.462			
4,800.0	4,780.2	4,771.9	4,734.8	6.7	6.3	-80.09	188.0	-435.5	334.0	324.2	9.83	33.995			
4,900.0	4,879.2	4,871.2	4,832.7	6.9	6.5	-80.56	195.4	-451.1	345.2	335.2	10.01	34.494			
5,000.0	4,978.3	4,970.6	4,930.5	7.0	6.6	-80.99	202.8	-466.7	356.5	346.3	10.20	34.962			
5,100.0	5,077.3	5,069.9	5,028.3	7.1	6.7	-81.40	210.2	-482.2	367.7	357.3	10.39	35.400			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #12H
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 #12H	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,200.0	5,176.3	5,169.2	5,126.1	7.2	6.8	-81.78	217.7	-497.8	379.0	368.4	10.58	35.808		
5,300.0	5,275.3	5,268.6	5,224.0	7.3	6.9	-82.14	225.1	-513.4	390.2	379.5	10.78	36.189		
5,400.0	5,374.4	5,367.9	5,321.8	7.4	7.0	-82.48	232.5	-529.0	401.5	390.5	10.99	36.543		
5,500.0	5,473.4	5,467.2	5,419.6	7.5	7.2	-82.80	239.9	-544.5	412.8	401.6	11.20	36.871		
5,600.0	5,572.4	5,566.6	5,517.4	7.7	7.3	-83.11	247.3	-560.1	424.2	412.7	11.41	37.175		
5,700.0	5,671.5	5,665.9	5,615.3	7.8	7.4	-83.40	254.7	-575.7	435.5	423.9	11.63	37.456		
5,800.0	5,770.5	5,765.2	5,713.1	7.9	7.5	-83.67	262.1	-591.3	446.8	435.0	11.85	37.715		
5,900.0	5,869.5	5,864.6	5,810.9	8.0	7.7	-83.93	269.6	-606.8	458.2	446.1	12.07	37.953		
6,000.0	5,968.5	5,963.9	5,908.7	8.1	7.8	-84.18	277.0	-622.4	469.5	457.2	12.30	38.171		
6,100.0	6,067.6	6,063.2	6,006.6	8.3	7.9	-84.41	284.4	-638.0	480.9	468.3	12.53	38.370		
6,130.7	6,097.9	6,093.7	6,036.6	8.3	7.9	-84.49	286.7	-642.8	484.4	471.8	12.60	38.428		
6,200.0	6,166.6	6,162.6	6,104.4	8.4	8.0	-84.67	291.8	-653.6	492.3	479.5	12.77	38.561		
6,300.0	6,265.9	6,261.9	6,202.2	8.5	8.2	-84.77	299.2	-669.1	503.9	490.9	13.00	38.772		
6,400.0	6,365.4	6,361.2	6,300.0	8.6	8.3	-84.67	306.6	-684.7	515.6	502.4	13.22	39.005		
6,500.0	6,465.1	6,460.4	6,397.7	8.7	8.4	-84.39	314.0	-700.3	527.5	514.1	13.43	39.263		
6,600.0	6,564.8	6,559.5	6,495.3	8.9	8.6	-83.95	321.4	-715.8	539.6	526.0	13.64	39.548		
6,700.0	6,664.7	6,658.5	6,592.8	9.0	8.7	-83.36	328.8	-731.3	552.0	538.1	13.84	39.884		
6,800.0	6,764.7	6,757.4	6,690.2	9.1	8.8	-82.62	336.2	-746.8	564.6	550.6	14.02	40.263		
6,900.0	6,864.7	6,856.0	6,787.3	9.2	9.0	-81.76	343.5	-762.3	577.7	563.5	14.21	40.652		
6,930.7	6,895.3	6,886.2	6,817.1	9.2	9.0	-104.55	345.8	-767.0	581.8	567.5	14.27	40.775		
7,000.0	6,964.7	6,954.5	6,884.3	9.3	9.1	-103.80	350.9	-777.7	591.1	576.7	14.40	41.051		
7,100.0	7,064.7	7,053.0	6,981.3	9.5	9.2	-102.77	358.2	-793.2	604.7	590.1	14.59	41.448		
7,200.0	7,164.7	7,151.5	7,078.3	9.6	9.4	-101.78	365.6	-808.6	618.5	603.7	14.78	41.840		
7,300.0	7,264.7	7,250.0	7,175.3	9.7	9.5	-100.83	372.9	-824.1	632.5	617.5	14.98	42.228		
7,400.0	7,364.7	7,348.4	7,272.2	9.8	9.7	-99.92	380.3	-839.5	646.7	631.5	15.18	42.612		
7,500.0	7,464.7	7,446.9	7,369.2	9.9	9.8	-99.06	387.6	-854.9	661.0	645.6	15.37	42.991		
7,600.0	7,564.7	7,545.4	7,466.2	10.1	10.0	-98.23	395.0	-870.4	675.4	659.8	15.57	43.366		
7,700.0	7,664.7	7,643.9	7,563.2	10.2	10.1	-97.43	402.3	-885.8	690.0	674.2	15.78	43.735		
7,800.0	7,764.7	7,742.4	7,660.2	10.3	10.3	-96.67	409.7	-901.3	704.7	688.7	15.98	44.100		
7,900.0	7,864.7	7,840.8	7,757.2	10.4	10.4	-95.93	417.0	-916.7	719.5	703.4	16.18	44.459		
8,000.0	7,964.7	7,939.3	7,854.1	10.6	10.6	-95.23	424.4	-932.2	734.5	718.1	16.39	44.813		
8,100.0	8,064.7	8,037.8	7,951.1	10.7	10.7	-94.56	431.7	-947.6	749.5	732.9	16.60	45.161		
8,200.0	8,164.7	8,136.3	8,048.1	10.8	10.9	-93.91	439.1	-963.0	764.7	747.9	16.80	45.505		
8,300.0	8,264.7	8,242.2	8,152.5	10.9	11.1	-93.25	446.8	-979.3	779.6	762.6	17.00	45.863		
8,400.0	8,364.7	8,354.6	8,263.6	11.0	11.3	-92.65	454.3	-994.9	793.2	776.0	17.18	46.155		
8,500.0	8,464.7	8,467.7	8,375.6	11.2	11.4	-92.14	460.8	-1,008.6	805.0	787.6	17.37	46.342		
8,600.0	8,564.7	8,581.3	8,488.5	11.3	11.6	-91.71	466.3	-1,020.3	815.2	797.6	17.56	46.423		
8,700.0	8,664.7	8,695.4	8,602.1	11.4	11.7	-91.37	471.0	-1,030.0	823.6	805.8	17.75	46.399		
8,800.0	8,764.7	8,809.9	8,716.3	11.5	11.8	-91.10	474.6	-1,037.7	830.2	812.3	17.94	46.270		
8,900.0	8,864.7	8,924.7	8,830.9	11.7	11.9	-90.91	477.3	-1,043.4	835.1	817.0	18.14	46.048		
9,000.0	8,964.7	9,039.7	8,945.8	11.8	12.0	-90.79	479.0	-1,046.9	838.2	819.9	18.33	45.723		
9,100.0	9,064.7	9,154.8	9,060.9	11.9	12.1	-90.74	479.7	-1,048.4	839.5	821.0	18.52	45.325		
9,200.0	9,164.7	9,258.2	9,164.3	12.0	12.2	-90.74	479.8	-1,048.5	839.6	820.9	18.64	45.051		
9,300.0	9,264.7	9,358.2	9,264.3	12.2	12.3	-90.74	479.8	-1,048.5	839.6	820.8	18.73	44.820		
9,400.0	9,364.7	9,458.2	9,364.3	12.3	12.4	-90.74	479.8	-1,048.5	839.6	820.7	18.83	44.590		
9,500.0	9,464.7	9,558.2	9,464.3	12.4	12.5	-90.74	479.8	-1,048.5	839.6	820.6	18.93	44.361		
9,600.0	9,564.7	9,658.2	9,564.3	12.5	12.6	-90.74	479.8	-1,048.5	839.6	820.5	19.02	44.133		
9,700.0	9,664.7	9,758.2	9,664.3	12.7	12.7	-90.74	479.8	-1,048.5	839.6	820.4	19.12	43.907		
9,800.0	9,764.7	9,858.2	9,764.3	12.8	12.8	-90.74	479.8	-1,048.5	839.6	820.3	19.22	43.682		
9,900.0	9,864.7	9,958.2	9,864.3	12.9	12.9	-90.74	479.8	-1,048.5	839.6	820.3	19.32	43.457		
10,000.0	9,964.7	10,058.2	9,964.3	13.0	13.0	-90.74	479.8	-1,048.5	839.6	820.2	19.42	43.235		
10,100.0	10,064.7	10,158.2	10,064.3	13.2	13.1	-90.74	479.8	-1,048.5	839.6	820.1	19.52	43.013		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #12H
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 #12H	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,200.0	10,164.7	10,258.2	10,164.3	13.3	13.2	-90.74	479.8	-1,048.5	839.6	820.0	19.62	42.793		
10,300.0	10,264.7	10,358.2	10,264.3	13.4	13.3	-90.74	479.8	-1,048.5	839.6	819.8	19.72	42.574		
10,400.0	10,364.7	10,458.2	10,364.3	13.6	13.4	-90.74	479.8	-1,048.5	839.6	819.7	19.82	42.356		
10,500.0	10,464.7	10,558.2	10,464.3	13.7	13.5	-90.74	479.8	-1,048.5	839.6	819.6	19.92	42.139		
10,600.0	10,564.7	10,658.2	10,564.3	13.8	13.6	-90.74	479.8	-1,048.5	839.6	819.5	20.03	41.924		
10,700.0	10,664.7	10,758.2	10,664.3	13.9	13.7	-90.74	479.8	-1,048.5	839.6	819.4	20.13	41.710		
10,800.0	10,764.7	10,858.2	10,764.3	14.1	13.8	-90.74	479.8	-1,048.5	839.6	819.3	20.23	41.498		
10,900.0	10,864.7	10,958.2	10,864.3	14.2	13.9	-90.74	479.8	-1,048.5	839.6	819.2	20.34	41.286		
11,000.0	10,964.7	11,058.2	10,964.3	14.3	14.0	-90.74	479.8	-1,048.5	839.6	819.1	20.44	41.076		
11,100.0	11,064.7	11,158.2	11,064.3	14.4	14.1	-90.74	479.8	-1,048.5	839.6	819.0	20.53	40.889		
11,103.4	11,068.1	11,161.6	11,067.7	14.4	14.1	-90.74	479.8	-1,048.5	839.6	819.0	20.54	40.883		
11,123.8	11,088.5	11,182.0	11,088.1	14.5	14.1	-90.74	479.8	-1,048.5	839.6	819.0	20.55	40.848		
11,125.0	11,089.7	11,183.1	11,089.2	14.5	14.1	89.58	479.8	-1,048.5	839.6	819.0	20.55	40.847		
11,150.0	11,114.7	11,207.8	11,113.9	14.5	14.1	89.57	479.0	-1,048.5	839.6	819.0	20.56	40.841		
11,175.0	11,139.6	11,232.5	11,138.5	14.5	14.1	89.57	476.9	-1,048.5	839.6	819.0	20.56	40.831		
11,200.0	11,164.3	11,257.1	11,162.9	14.5	14.1	89.56	473.6	-1,048.5	839.6	819.0	20.57	40.818		
11,225.0	11,188.9	11,281.8	11,187.1	14.5	14.1	89.56	469.0	-1,048.4	839.6	819.0	20.58	40.800		
11,250.0	11,213.2	11,306.5	11,211.1	14.5	14.2	89.56	463.2	-1,048.4	839.6	819.0	20.59	40.779		
11,275.0	11,237.2	11,331.1	11,234.8	14.5	14.2	89.56	456.2	-1,048.4	839.6	819.0	20.60	40.752		
11,300.0	11,260.7	11,355.8	11,258.0	14.5	14.2	89.57	447.9	-1,048.3	839.6	819.0	20.62	40.720		
11,325.0	11,283.8	11,380.5	11,280.8	14.5	14.2	89.57	438.4	-1,048.3	839.6	818.9	20.64	40.682		
11,350.0	11,306.3	11,405.2	11,303.0	14.5	14.2	89.57	427.8	-1,048.2	839.6	818.9	20.66	40.638		
11,375.0	11,328.2	11,429.8	11,324.7	14.5	14.2	89.58	416.1	-1,048.2	839.6	818.9	20.69	40.586		
11,400.0	11,349.5	11,454.5	11,345.8	14.6	14.2	89.59	403.2	-1,048.1	839.6	818.9	20.72	40.525		
11,425.0	11,370.1	11,479.2	11,366.2	14.6	14.3	89.59	389.3	-1,048.0	839.6	818.8	20.75	40.456		
11,450.0	11,389.9	11,503.9	11,385.8	14.6	14.3	89.60	374.3	-1,047.9	839.6	818.8	20.79	40.377		
11,475.0	11,408.9	11,528.6	11,404.6	14.6	14.3	89.61	358.3	-1,047.8	839.6	818.7	20.84	40.287		
11,500.0	11,426.9	11,553.3	11,422.6	14.6	14.3	89.62	341.4	-1,047.7	839.6	818.7	20.89	40.185		
11,525.0	11,444.1	11,578.0	11,439.7	14.7	14.3	89.64	323.6	-1,047.6	839.6	818.6	20.95	40.071		
11,550.0	11,460.3	11,602.7	11,455.9	14.7	14.4	89.65	304.8	-1,047.5	839.6	818.6	21.02	39.944		
11,575.0	11,475.5	11,627.5	11,471.1	14.7	14.4	89.66	285.3	-1,047.4	839.6	818.5	21.09	39.804		
11,600.0	11,489.6	11,652.2	11,485.2	14.7	14.4	89.68	265.0	-1,047.3	839.6	818.4	21.17	39.651		
11,617.5	11,498.8	11,669.5	11,494.5	14.7	14.4	89.69	250.4	-1,047.2	839.6	818.3	21.24	39.534		
11,625.0	11,502.6	11,677.0	11,498.3	14.8	14.4	89.69	244.0	-1,047.2	839.6	818.3	21.26	39.484		
11,650.0	11,514.5	11,701.7	11,510.3	14.8	14.5	89.71	222.3	-1,047.1	839.6	818.2	21.36	39.303		
11,675.0	11,525.2	11,726.5	11,521.1	14.8	14.5	89.73	200.0	-1,047.0	839.6	818.1	21.47	39.109		
11,700.0	11,534.7	11,751.3	11,530.8	14.8	14.5	89.75	177.2	-1,046.8	839.6	818.0	21.58	38.903		
11,725.0	11,543.0	11,776.1	11,539.3	14.8	14.5	89.76	153.9	-1,046.7	839.6	817.9	21.70	38.684		
11,750.0	11,550.0	11,801.0	11,546.5	14.9	14.5	89.78	130.2	-1,046.6	839.6	817.7	21.83	38.455		
11,775.0	11,555.8	11,825.8	11,552.6	14.9	14.6	89.80	106.1	-1,046.5	839.6	817.6	21.97	38.215		
11,800.0	11,560.3	11,850.7	11,557.3	14.9	14.6	89.82	81.7	-1,046.3	839.6	817.5	22.11	37.967		
11,825.0	11,563.5	11,875.5	11,560.8	14.9	14.6	89.85	57.0	-1,046.2	839.6	817.3	22.26	37.711		
11,850.0	11,565.4	11,900.4	11,563.0	14.9	14.6	89.87	32.3	-1,046.1	839.6	817.2	22.42	37.450		
11,873.8	11,566.0	11,924.2	11,563.9	14.9	14.6	89.89	8.5	-1,045.9	839.6	817.0	22.57	37.197		
11,900.0	11,566.0	11,950.3	11,564.0	14.9	14.6	89.89	-17.6	-1,045.8	839.6	816.8	22.75	36.907		
12,000.0	11,566.0	12,050.3	11,564.0	14.9	14.7	89.89	-117.6	-1,045.2	839.6	816.1	23.50	35.724		
12,100.0	11,566.0	12,150.3	11,564.0	15.0	14.8	89.89	-217.6	-1,044.7	839.6	815.2	24.35	34.477		
12,200.0	11,566.0	12,250.3	11,564.0	15.0	14.9	89.89	-317.6	-1,044.1	839.6	814.3	25.29	33.200		
12,300.0	11,566.0	12,350.3	11,564.0	15.1	15.0	89.89	-417.6	-1,043.6	839.6	813.3	26.31	31.918		
12,400.0	11,566.0	12,450.3	11,564.0	15.1	15.3	89.89	-517.6	-1,043.0	839.6	812.2	27.39	30.653		
12,500.0	11,566.0	12,550.3	11,564.0	15.2	15.6	89.89	-617.6	-1,042.5	839.6	811.1	28.54	29.422		
12,600.0	11,566.0	12,650.3	11,564.0	15.3	16.0	89.89	-717.6	-1,042.0	839.6	809.9	29.74	28.233		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #12H
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 #12H	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
12,700.0	11,566.0	12,750.3	11,564.0	15.5	16.5	89.89	-817.6	-1,041.4	839.6	808.6	30.99	27.095		
12,800.0	11,566.0	12,850.3	11,564.0	15.8	17.1	89.89	-917.6	-1,040.9	839.6	807.4	32.28	26.011		
12,900.0	11,566.0	12,950.3	11,564.0	16.3	17.7	89.89	-1,017.6	-1,040.3	839.6	806.0	33.61	24.982		
13,000.0	11,566.0	13,050.3	11,564.0	16.9	18.3	89.89	-1,117.6	-1,039.8	839.6	804.7	34.97	24.008		
13,100.0	11,566.0	13,150.3	11,564.0	17.6	19.0	89.89	-1,217.6	-1,039.2	839.7	803.3	36.37	23.089		
13,200.0	11,566.0	13,250.3	11,564.0	18.3	19.6	89.89	-1,317.6	-1,038.7	839.7	801.9	37.79	22.222		
13,300.0	11,566.0	13,350.3	11,564.0	19.0	20.3	89.89	-1,417.6	-1,038.1	839.7	800.4	39.23	21.405		
13,400.0	11,566.0	13,450.3	11,564.0	19.8	21.0	89.89	-1,517.6	-1,037.6	839.7	799.0	40.69	20.635		
13,500.0	11,566.0	13,550.3	11,564.0	20.5	21.7	89.89	-1,617.6	-1,037.0	839.7	797.5	42.17	19.910		
13,600.0	11,566.0	13,650.3	11,564.0	21.3	22.4	89.89	-1,717.6	-1,036.5	839.7	796.0	43.67	19.226		
13,700.0	11,566.0	13,750.3	11,564.0	22.1	23.2	89.89	-1,817.6	-1,035.9	839.7	794.5	45.19	18.582		
13,800.0	11,566.0	13,850.3	11,564.0	22.9	23.9	89.89	-1,917.6	-1,035.4	839.7	793.0	46.72	17.974		
13,900.0	11,566.0	13,950.3	11,564.0	23.6	24.7	89.89	-2,017.6	-1,034.9	839.7	791.4	48.26	17.400		
14,000.0	11,566.0	14,050.3	11,564.0	24.4	25.4	89.89	-2,117.6	-1,034.3	839.7	789.9	49.81	16.858		
14,100.0	11,566.0	14,150.3	11,564.0	25.2	26.2	89.89	-2,217.6	-1,033.8	839.7	788.3	51.37	16.345		
14,200.0	11,566.0	14,250.3	11,564.0	26.0	26.9	89.89	-2,317.6	-1,033.2	839.7	786.8	52.95	15.860		
14,300.0	11,566.0	14,350.3	11,564.0	26.8	27.7	89.89	-2,417.6	-1,032.7	839.7	785.2	54.53	15.400		
14,400.0	11,566.0	14,450.3	11,564.0	27.6	28.5	89.89	-2,517.6	-1,032.1	839.7	783.6	56.12	14.964		
14,500.0	11,566.0	14,550.3	11,564.0	28.4	29.3	89.89	-2,617.6	-1,031.6	839.7	782.0	57.71	14.550		
14,600.0	11,566.0	14,650.3	11,564.0	29.3	30.1	89.89	-2,717.6	-1,031.0	839.7	780.4	59.32	14.157		
14,700.0	11,566.0	14,750.3	11,564.0	30.1	30.9	89.89	-2,817.6	-1,030.5	839.7	778.8	60.92	13.783		
14,800.0	11,566.0	14,850.3	11,564.0	30.9	31.7	89.89	-2,917.6	-1,029.9	839.8	777.2	62.54	13.428		
14,900.0	11,566.0	14,950.3	11,564.0	31.7	32.5	89.89	-3,017.6	-1,029.4	839.8	775.6	64.16	13.089		
15,000.0	11,566.0	15,050.3	11,564.0	32.5	33.3	89.89	-3,117.6	-1,028.8	839.8	774.0	65.78	12.766		
15,100.0	11,566.0	15,150.3	11,564.0	33.4	34.1	89.89	-3,217.6	-1,028.3	839.8	772.4	67.41	12.457		
15,200.0	11,566.0	15,250.3	11,564.0	34.2	34.9	89.89	-3,317.6	-1,027.7	839.8	770.7	69.05	12.163		
15,300.0	11,566.0	15,350.3	11,564.0	35.0	35.7	89.89	-3,417.6	-1,027.2	839.8	769.1	70.68	11.881		
15,400.0	11,566.0	15,450.3	11,564.0	35.8	36.5	89.89	-3,517.6	-1,026.7	839.8	767.5	72.32	11.612		
15,500.0	11,566.0	15,550.3	11,564.0	36.7	37.3	89.89	-3,617.6	-1,026.1	839.8	765.8	73.97	11.354		
15,600.0	11,566.0	15,650.3	11,564.0	37.5	38.1	89.89	-3,717.6	-1,025.6	839.8	764.2	75.62	11.106		
15,700.0	11,566.0	15,750.3	11,564.0	38.3	38.9	89.89	-3,817.6	-1,025.0	839.8	762.5	77.27	10.869		
15,800.0	11,566.0	15,850.3	11,564.0	39.2	39.8	89.89	-3,917.6	-1,024.5	839.8	760.9	78.92	10.641		
15,900.0	11,566.0	15,950.3	11,564.0	40.0	40.6	89.89	-4,017.5	-1,023.9	839.8	759.2	80.57	10.423		
16,000.0	11,566.0	16,050.3	11,564.0	40.8	41.4	89.89	-4,117.5	-1,023.4	839.8	757.6	82.23	10.213		
16,100.0	11,566.0	16,150.3	11,564.0	41.7	42.2	89.89	-4,217.5	-1,022.8	839.8	755.9	83.89	10.011		
16,200.0	11,566.0	16,250.3	11,564.0	42.5	43.1	89.89	-4,317.5	-1,022.3	839.8	754.3	85.56	9.816		
16,300.0	11,566.0	16,350.3	11,564.0	43.3	43.9	89.89	-4,417.5	-1,021.7	839.8	752.6	87.22	9.629		
16,400.0	11,566.0	16,450.3	11,564.0	44.2	44.7	89.89	-4,517.5	-1,021.2	839.8	751.0	88.89	9.448		
16,500.0	11,566.0	16,550.3	11,564.0	45.0	45.5	89.89	-4,617.5	-1,020.6	839.9	749.3	90.56	9.274		
16,600.0	11,566.0	16,650.3	11,564.0	45.9	46.4	89.89	-4,717.5	-1,020.1	839.9	747.6	92.23	9.106		
16,700.0	11,566.0	16,750.3	11,564.0	46.7	47.2	89.89	-4,817.5	-1,019.6	839.9	746.0	93.90	8.944		
16,800.0	11,566.0	16,850.3	11,564.0	47.5	48.0	89.89	-4,917.5	-1,019.0	839.9	744.3	95.57	8.788		
16,900.0	11,566.0	16,950.3	11,564.0	48.4	48.9	89.89	-5,017.5	-1,018.5	839.9	742.6	97.25	8.637		
17,000.0	11,566.0	17,050.3	11,564.0	49.2	49.7	89.89	-5,117.5	-1,017.9	839.9	741.0	98.92	8.490		
17,100.0	11,566.0	17,150.3	11,564.0	50.1	50.5	89.89	-5,217.5	-1,017.4	839.9	739.3	100.60	8.349		
17,200.0	11,566.0	17,250.3	11,564.0	50.9	51.4	89.89	-5,317.5	-1,016.8	839.9	737.6	102.28	8.212		
17,300.0	11,566.0	17,350.3	11,564.0	51.8	52.2	89.89	-5,417.5	-1,016.3	839.9	735.9	103.96	8.079		
17,400.0	11,566.0	17,450.3	11,564.0	52.6	53.0	89.89	-5,517.5	-1,015.7	839.9	734.3	105.64	7.951		
17,500.0	11,566.0	17,550.3	11,564.0	53.5	53.9	89.89	-5,617.5	-1,015.2	839.9	732.6	107.32	7.826		
17,600.0	11,566.0	17,650.3	11,564.0	54.3	54.7	89.89	-5,717.5	-1,014.6	839.9	730.9	109.01	7.705		
17,700.0	11,566.0	17,750.3	11,564.0	55.1	55.5	89.89	-5,817.5	-1,014.1	839.9	729.2	110.69	7.588		
17,800.0	11,566.0	17,850.3	11,564.0	56.0	56.4	89.89	-5,917.5	-1,013.5	839.9	727.6	112.38	7.474		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #12H
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 #12H	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	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Rule Assigned:		Distance		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
17,900.0	11,566.0	17,950.3	11,564.0	56.8	57.2	89.89	-6,017.5	-1,013.0	839.9	725.9	114.06	7.364	
18,000.0	11,566.0	18,050.3	11,564.0	57.7	58.1	89.89	-6,117.5	-1,012.4	839.9	724.2	115.75	7.257	
18,100.0	11,566.0	18,150.3	11,564.0	58.5	58.9	89.89	-6,217.5	-1,011.9	840.0	722.5	117.44	7.152	
18,200.0	11,566.0	18,250.3	11,564.0	59.4	59.8	89.89	-6,317.5	-1,011.4	840.0	720.8	119.13	7.051	
18,300.0	11,566.0	18,350.3	11,564.0	60.2	60.6	89.89	-6,417.5	-1,010.8	840.0	719.1	120.82	6.952	
18,400.0	11,566.0	18,450.3	11,564.0	61.1	61.4	89.89	-6,517.5	-1,010.3	840.0	717.5	122.51	6.856	
18,500.0	11,566.0	18,550.3	11,564.0	61.9	62.3	89.89	-6,617.5	-1,009.7	840.0	715.8	124.20	6.763	
18,600.0	11,566.0	18,650.3	11,564.0	62.8	63.1	89.89	-6,717.5	-1,009.2	840.0	714.1	125.89	6.672	
18,672.6	11,566.0	18,722.9	11,564.0	63.2	63.7	89.89	-6,790.1	-1,008.8	840.0	713.0	126.94	6.617	

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

ConocoPhillips

Anticollision Report

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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 #12H	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 #11H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 10970-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	0.0	0.0	3.0	3.0	-90.57	-0.2	-20.0	20.0					
100.0	100.0	100.0	100.0	3.0	3.0	-90.57	-0.2	-20.0	20.0	14.0	6.00	3.330		
200.0	200.0	200.0	200.0	3.0	3.0	-90.57	-0.2	-20.0	20.0	14.0	6.00	3.329		
300.0	300.0	300.0	300.0	3.0	3.0	-90.57	-0.2	-20.0	20.0	14.0	6.01	3.325		
400.0	400.0	400.0	400.0	3.0	3.0	-90.57	-0.2	-20.0	20.0	14.0	6.02	3.320		
500.0	500.0	500.0	500.0	3.1	3.1	-90.57	-0.2	-20.0	20.0	14.0	6.03	3.313		
600.0	600.0	600.0	600.0	3.1	3.1	-90.57	-0.2	-20.0	20.0	13.9	6.05	3.305		
700.0	700.0	700.0	700.0	3.1	3.1	-90.57	-0.2	-20.0	20.0	13.9	6.07	3.294		
800.0	800.0	800.0	800.0	3.2	3.2	-90.57	-0.2	-20.0	20.0	13.9	6.09	3.282		
900.0	900.0	900.0	900.0	3.2	3.2	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-0.2	-20.0	20.0	13.4	6.58	3.036 CC, ES, SF		
2,100.0	2,100.0	2,099.4	2,099.4	4.0	4.0	-87.64	0.9	-21.3	21.4	14.7	6.64	3.215		
2,200.0	2,200.0	2,198.6	2,198.4	4.1	4.1	-80.79	4.1	-25.3	25.7	19.0	6.75	3.810		
2,300.0	2,300.0	2,297.3	2,296.8	4.2	4.1	-73.55	9.4	-32.0	33.5	26.6	6.93	4.835		
2,400.0	2,400.0	2,395.3	2,394.1	4.3	4.2	-67.77	16.8	-41.2	44.9	37.8	7.14	6.288		
2,500.0	2,500.0	2,494.3	2,492.1	4.4	4.3	-63.89	25.5	-52.0	58.4	51.0	7.36	7.938		
2,600.0	2,600.0	2,593.5	2,590.3	4.5	4.4	-39.12	34.1	-62.7	70.7	63.2	7.53	9.389		
2,700.0	2,699.8	2,693.0	2,688.9	4.6	4.4	-39.46	42.8	-73.5	80.3	72.7	7.66	10.492		
2,800.0	2,799.5	2,792.7	2,787.6	4.7	4.5	-41.20	51.5	-84.3	87.3	79.6	7.74	11.284		
2,900.0	2,898.7	2,892.5	2,886.4	4.8	4.6	-44.18	60.2	-95.2	91.9	84.1	7.78	11.809		
3,000.0	2,997.7	2,992.3	2,985.2	4.9	4.7	-47.69	68.8	-106.0	95.5	87.7	7.80	12.235		
3,100.0	3,096.8	3,092.1	3,084.0	4.9	4.8	-50.93	77.5	-116.8	99.4	91.6	7.83	12.688		
3,200.0	3,195.8	3,191.8	3,182.8	5.0	4.9	-53.92	86.2	-127.7	103.6	95.7	7.87	13.157		
3,300.0	3,294.8	3,291.6	3,281.6	5.1	4.9	-56.67	94.9	-138.5	108.1	100.2	7.93	13.638		
3,400.0	3,393.8	3,391.4	3,380.4	5.2	5.0	-59.19	103.6	-149.3	112.8	104.8	7.99	14.124		
3,500.0	3,492.9	3,491.1	3,479.2	5.3	5.1	-61.51	112.3	-160.2	117.7	109.6	8.06	14.610		
3,600.0	3,591.9	3,590.9	3,578.0	5.4	5.2	-63.64	121.0	-171.0	122.8	114.7	8.14	15.091		
3,700.0	3,690.9	3,690.7	3,676.8	5.5	5.3	-65.60	129.7	-181.8	128.0	119.8	8.23	15.565		
3,800.0	3,789.9	3,790.5	3,775.6	5.6	5.4	-67.41	138.4	-192.6	133.4	125.1	8.32	16.029		
3,900.0	3,889.0	3,890.2	3,874.4	5.8	5.5	-69.07	147.1	-203.5	138.9	130.5	8.43	16.481		
4,000.0	3,988.0	3,990.0	3,973.2	5.9	5.6	-70.60	155.8	-214.3	144.5	136.0	8.54	16.918		
4,100.0	4,087.0	4,089.8	4,072.0	6.0	5.7	-72.02	164.5	-225.1	150.2	141.6	8.66	17.341		
4,200.0	4,186.0	4,189.5	4,170.8	6.1	5.8	-73.34	173.1	-236.0	156.0	147.2	8.79	17.747		
4,300.0	4,285.1	4,289.3	4,269.6	6.2	5.9	-74.56	181.8	-246.8	161.9	153.0	8.93	18.136		
4,400.0	4,384.1	4,389.1	4,368.4	6.3	6.0	-75.69	190.5	-257.6	167.8	158.8	9.07	18.509		
4,500.0	4,483.1	4,488.9	4,467.2	6.4	6.1	-76.75	199.2	-268.4	173.8	164.6	9.21	18.864		
4,600.0	4,582.2	4,588.6	4,566.0	6.5	6.3	-77.73	207.9	-279.3	179.9	170.5	9.37	19.201		
4,700.0	4,681.2	4,688.4	4,664.8	6.6	6.4	-78.65	216.6	-290.1	186.0	176.4	9.53	19.522		
4,800.0	4,780.2	4,788.2	4,763.6	6.7	6.5	-79.52	225.3	-300.9	192.1	182.4	9.69	19.826		
4,900.0	4,879.2	4,887.9	4,862.4	6.9	6.6	-80.33	234.0	-311.8	198.3	188.4	9.86	20.112		
5,000.0	4,978.3	4,987.7	4,961.2	7.0	6.7	-81.09	242.7	-322.6	204.5	194.5	10.03	20.383		
5,100.0	5,077.3	5,087.5	5,060.0	7.1	6.8	-81.80	251.4	-333.4	210.8	200.6	10.21	20.638		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #12H
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 #12H	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 #11H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 10970-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,200.0	5,176.3	5,187.2	5,158.8	7.2	6.9	-82.47	260.1	-344.2	217.1	206.7	10.40	20.877		
5,300.0	5,275.3	5,287.0	5,257.6	7.3	7.0	-83.11	268.8	-355.1	223.4	212.8	10.59	21.102		
5,400.0	5,374.4	5,386.8	5,356.4	7.4	7.1	-83.71	277.4	-365.9	229.7	219.0	10.78	21.312		
5,500.0	5,473.4	5,486.6	5,455.2	7.5	7.3	-84.28	286.1	-376.7	236.1	225.1	10.98	21.509		
5,600.0	5,572.4	5,586.3	5,554.0	7.7	7.4	-84.82	294.8	-387.6	242.5	231.3	11.18	21.692		
5,700.0	5,671.5	5,686.1	5,652.8	7.8	7.5	-85.33	303.5	-398.4	248.9	237.5	11.38	21.862		
5,800.0	5,770.5	5,785.9	5,751.6	7.9	7.6	-85.81	312.2	-409.2	255.3	243.7	11.59	22.021		
5,900.0	5,869.5	5,885.6	5,850.4	8.0	7.7	-86.27	320.9	-420.0	261.8	250.0	11.81	22.168		
6,000.0	5,968.5	5,985.4	5,949.2	8.1	7.9	-86.71	329.6	-430.9	268.2	256.2	12.03	22.303		
6,100.0	6,067.6	6,085.2	6,048.0	8.3	8.0	-87.13	338.3	-441.7	274.7	262.5	12.25	22.428		
6,130.7	6,097.9	6,115.8	6,078.3	8.3	8.0	-87.26	341.0	-445.0	276.7	264.4	12.32	22.465		
6,200.0	6,166.6	6,185.0	6,146.8	8.4	8.1	-87.49	347.0	-452.5	281.2	268.7	12.47	22.549		
6,300.0	6,265.9	6,284.7	6,245.6	8.5	8.2	-87.53	355.7	-463.4	287.8	275.1	12.69	22.685		
6,400.0	6,365.4	6,384.5	6,344.4	8.6	8.3	-87.22	364.4	-474.2	294.5	281.6	12.89	22.836		
6,500.0	6,465.1	6,484.2	6,443.2	8.7	8.4	-86.60	373.0	-485.0	301.2	288.1	13.10	23.003		
6,600.0	6,564.8	6,583.8	6,541.8	8.9	8.6	-85.69	381.7	-495.8	308.2	294.9	13.29	23.188		
6,700.0	6,664.7	6,683.3	6,640.3	9.0	8.7	-84.52	390.4	-506.6	315.4	301.9	13.47	23.407		
6,800.0	6,764.7	6,782.7	6,738.7	9.1	8.8	-83.09	399.0	-517.4	322.9	309.3	13.65	23.656		
6,900.0	6,864.7	6,881.9	6,837.0	9.2	8.9	-81.45	407.7	-528.2	330.9	317.1	13.84	23.916		
6,930.7	6,895.3	6,912.3	6,867.1	9.2	9.0	-103.98	410.3	-531.5	333.5	319.6	13.90	23.999		
7,000.0	6,964.7	6,980.9	6,935.0	9.3	9.1	-102.69	416.3	-538.9	339.5	325.4	14.03	24.188		
7,100.0	7,064.7	7,079.9	7,033.1	9.5	9.2	-100.91	424.9	-549.7	348.4	334.1	14.24	24.463		
7,200.0	7,164.7	7,179.0	7,131.2	9.6	9.3	-99.22	433.6	-560.4	357.6	343.1	14.45	24.740		
7,300.0	7,264.7	7,278.0	7,229.2	9.7	9.4	-97.61	442.2	-571.2	367.1	352.4	14.67	25.019		
7,400.0	7,364.7	7,377.0	7,327.3	9.8	9.6	-96.09	450.8	-581.9	376.9	362.0	14.90	25.299		
7,500.0	7,464.7	7,479.9	7,429.3	9.9	9.7	-94.64	459.5	-592.7	386.5	371.4	15.12	25.569		
7,600.0	7,564.7	7,584.5	7,533.1	10.1	9.8	-93.42	467.1	-602.2	395.1	379.8	15.33	25.772		
7,700.0	7,664.7	7,689.5	7,637.6	10.2	9.9	-92.44	473.5	-610.2	402.5	386.9	15.54	25.901		
7,800.0	7,764.7	7,794.8	7,742.6	10.3	10.1	-91.66	478.8	-616.8	408.5	392.8	15.74	25.957		
7,900.0	7,864.7	7,900.4	7,848.0	10.4	10.2	-91.07	482.9	-621.8	413.2	397.3	15.93	25.938		
8,000.0	7,964.7	8,006.3	7,953.7	10.6	10.3	-90.67	485.7	-625.4	416.6	400.5	16.11	25.853		
8,100.0	8,064.7	8,112.2	8,059.6	10.7	10.4	-90.44	487.4	-627.4	418.5	402.2	16.28	25.701		
8,200.0	8,164.7	8,217.2	8,164.7	10.8	10.6	-90.38	487.8	-628.0	419.0	402.6	16.42	25.517		
8,300.0	8,264.7	8,317.2	8,264.7	10.9	10.7	-90.38	487.8	-628.0	419.0	402.5	16.52	25.368		
8,400.0	8,364.7	8,417.2	8,364.7	11.0	10.8	-90.38	487.8	-628.0	419.0	402.4	16.61	25.219		
8,500.0	8,464.7	8,517.2	8,464.7	11.2	10.9	-90.38	487.8	-628.0	419.0	402.3	16.71	25.072		
8,600.0	8,564.7	8,617.2	8,564.7	11.3	11.0	-90.38	487.8	-628.0	419.0	402.2	16.81	24.925		
8,700.0	8,664.7	8,717.2	8,664.7	11.4	11.1	-90.38	487.8	-628.0	419.0	402.1	16.91	24.779		
8,800.0	8,764.7	8,817.2	8,764.7	11.5	11.2	-90.38	487.8	-628.0	419.0	402.0	17.01	24.634		
8,900.0	8,864.7	8,917.2	8,864.7	11.7	11.3	-90.38	487.8	-628.0	419.0	401.9	17.11	24.490		
9,000.0	8,964.7	9,017.2	8,964.7	11.8	11.4	-90.38	487.8	-628.0	419.0	401.8	17.21	24.347		
9,100.0	9,064.7	9,117.2	9,064.7	11.9	11.6	-90.38	487.8	-628.0	419.0	401.7	17.31	24.204		
9,200.0	9,164.7	9,217.2	9,164.7	12.0	11.7	-90.38	487.8	-628.0	419.0	401.6	17.41	24.063		
9,300.0	9,264.7	9,317.2	9,264.7	12.2	11.8	-90.38	487.8	-628.0	419.0	401.5	17.51	23.923		
9,400.0	9,364.7	9,417.2	9,364.7	12.3	11.9	-90.38	487.8	-628.0	419.0	401.4	17.62	23.783		
9,500.0	9,464.7	9,517.2	9,464.7	12.4	12.0	-90.38	487.8	-628.0	419.0	401.3	17.72	23.645		
9,600.0	9,564.7	9,617.2	9,564.7	12.5	12.1	-90.38	487.8	-628.0	419.0	401.2	17.82	23.507		
9,700.0	9,664.7	9,717.2	9,664.7	12.7	12.2	-90.38	487.8	-628.0	419.0	401.1	17.93	23.370		
9,800.0	9,764.7	9,817.2	9,764.7	12.8	12.4	-90.38	487.8	-628.0	419.0	401.0	18.03	23.235		
9,900.0	9,864.7	9,917.2	9,864.7	12.9	12.5	-90.38	487.8	-628.0	419.0	400.9	18.14	23.100		
10,000.0	9,964.7	10,017.2	9,964.7	13.0	12.6	-90.38	487.8	-628.0	419.0	400.7	18.24	22.967		
10,100.0	10,064.7	10,117.2	10,064.7	13.2	12.7	-90.38	487.8	-628.0	419.0	400.6	18.35	22.834		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #12H
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 #12H	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 #11H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 10970-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,200.0	10,164.7	10,217.2	10,164.7	13.3	12.8	-90.38	487.8	-628.0	419.0	400.5	18.46	22.702		
10,300.0	10,264.7	10,317.2	10,264.7	13.4	12.9	-90.38	487.8	-628.0	419.0	400.4	18.56	22.572		
10,400.0	10,364.7	10,417.2	10,364.7	13.6	13.1	-90.38	487.8	-628.0	419.0	400.3	18.67	22.442		
10,500.0	10,464.7	10,517.2	10,464.7	13.7	13.2	-90.38	487.8	-628.0	419.0	400.2	18.78	22.313		
10,600.0	10,564.7	10,617.2	10,564.7	13.8	13.3	-90.38	487.8	-628.0	419.0	400.1	18.89	22.185		
10,700.0	10,664.7	10,717.2	10,664.7	13.9	13.4	-90.38	487.8	-628.0	419.0	400.0	18.99	22.059		
10,800.0	10,764.7	10,817.2	10,764.7	14.1	13.5	-90.38	487.8	-628.0	419.0	399.9	19.10	21.933		
10,900.0	10,864.7	10,917.2	10,864.7	14.2	13.6	-90.38	487.8	-628.0	419.0	399.8	19.21	21.812		
10,903.6	10,868.3	10,920.9	10,868.3	14.2	13.6	-90.38	487.8	-628.0	419.0	399.8	19.21	21.809		
11,000.0	10,964.7	11,017.0	10,964.4	14.3	13.7	-90.70	485.5	-628.0	419.0	399.7	19.26	21.751		
11,100.0	11,064.7	11,112.7	11,058.0	14.4	13.7	-93.27	466.7	-627.9	419.6	400.4	19.17	21.890		
11,123.8	11,088.5	11,134.1	11,078.3	14.5	13.7	-94.19	459.9	-627.8	420.1	400.9	19.15	21.938		
11,125.0	11,089.7	11,135.1	11,079.3	14.5	13.7	86.07	459.6	-627.8	420.1	400.9	19.17	21.919		
11,150.0	11,114.7	11,157.1	11,099.8	14.5	13.7	84.99	451.6	-627.8	420.8	401.6	19.16	21.965		
11,175.0	11,139.6	11,178.8	11,119.6	14.5	13.7	83.93	442.9	-627.7	421.6	402.5	19.18	21.988		
11,200.0	11,164.3	11,200.0	11,138.7	14.5	13.7	82.90	433.5	-627.7	422.6	403.4	19.23	21.980		
11,225.0	11,188.9	11,221.3	11,157.3	14.5	13.8	81.87	423.2	-627.6	423.7	404.4	19.31	21.947		
11,250.0	11,213.2	11,242.2	11,175.1	14.5	13.8	80.88	412.3	-627.6	424.9	405.5	19.42	21.879		
11,275.0	11,237.2	11,262.8	11,192.3	14.5	13.8	79.91	400.8	-627.5	426.2	406.6	19.57	21.779		
11,300.0	11,260.7	11,283.3	11,208.7	14.5	13.8	78.97	388.7	-627.4	427.6	407.8	19.75	21.647		
11,325.0	11,283.8	11,303.5	11,224.5	14.5	13.8	78.06	376.0	-627.4	429.0	409.0	19.97	21.484		
11,350.0	11,306.3	11,325.0	11,240.6	14.5	13.8	77.14	361.8	-627.3	430.5	410.3	20.18	21.332		
11,375.0	11,328.2	11,343.5	11,254.0	14.5	13.9	76.34	349.1	-627.2	432.0	411.5	20.50	21.079		
11,400.0	11,349.5	11,363.2	11,267.7	14.6	13.9	75.53	334.9	-627.2	433.6	412.8	20.80	20.844		
11,425.0	11,370.1	11,382.8	11,280.7	14.6	13.9	74.75	320.2	-627.1	435.2	414.0	21.13	20.593		
11,450.0	11,389.9	11,400.0	11,291.6	14.6	13.9	74.08	307.0	-627.0	436.7	415.2	21.55	20.268		
11,475.0	11,408.9	11,421.6	11,304.7	14.6	13.9	73.31	289.7	-626.9	438.3	416.4	21.85	20.059		
11,500.0	11,426.9	11,440.8	11,315.6	14.6	13.9	72.65	273.9	-626.8	439.8	417.5	22.23	19.784		
11,525.0	11,444.1	11,459.9	11,325.8	14.7	14.0	72.03	257.8	-626.7	441.2	418.6	22.62	19.508		
11,550.0	11,460.3	11,478.9	11,335.3	14.7	14.0	71.45	241.4	-626.7	442.7	419.7	23.01	19.236		
11,575.0	11,475.5	11,500.0	11,345.1	14.7	14.0	70.87	222.7	-626.6	444.0	420.7	23.35	19.017		
11,600.0	11,489.6	11,516.7	11,352.3	14.7	14.0	70.41	207.7	-626.5	445.3	421.5	23.80	18.709		
11,625.0	11,502.6	11,535.4	11,359.7	14.8	14.0	69.96	190.4	-626.4	446.5	422.3	24.19	18.459		
11,650.0	11,514.5	11,554.1	11,366.4	14.8	14.1	69.55	173.0	-626.3	447.6	423.1	24.57	18.220		
11,675.0	11,525.2	11,575.0	11,373.1	14.8	14.1	69.15	153.2	-626.2	448.7	423.8	24.88	18.029		
11,700.0	11,534.7	11,591.3	11,377.7	14.8	14.1	68.85	137.5	-626.1	449.6	424.3	25.29	17.778		
11,725.0	11,543.0	11,609.9	11,382.3	14.8	14.1	68.57	119.6	-626.0	450.4	424.7	25.62	17.576		
11,750.0	11,550.0	11,628.4	11,386.2	14.9	14.1	68.33	101.5	-625.9	451.0	425.1	25.94	17.388		
11,775.0	11,555.8	11,650.0	11,389.8	14.9	14.1	68.12	80.2	-625.8	451.6	425.4	26.18	17.248		
11,800.0	11,560.3	11,665.3	11,391.8	14.9	14.1	67.99	65.0	-625.7	452.0	425.5	26.51	17.054		
11,825.0	11,563.5	11,683.7	11,393.6	14.9	14.2	67.88	46.7	-625.6	452.4	425.6	26.76	16.907		
11,850.0	11,565.4	11,700.0	11,394.5	14.9	14.2	67.82	30.4	-625.5	452.6	425.6	27.00	16.761		
11,873.8	11,566.0	11,720.1	11,395.0	14.9	14.2	67.80	10.3	-625.4	452.6	425.4	27.16	16.663		
11,874.7	11,566.0	11,720.4	11,395.0	14.9	14.2	67.80	10.0	-625.4	452.6	425.4	27.17	16.657		
11,900.0	11,566.0	11,745.7	11,395.0	14.9	14.2	67.80	-15.3	-625.3	452.6	425.3	27.31	16.574		
12,000.0	11,566.0	11,845.7	11,395.0	14.9	14.3	67.80	-115.3	-624.7	452.6	424.7	27.90	16.221		
12,100.0	11,566.0	11,945.7	11,395.0	15.0	14.4	67.80	-215.3	-624.2	452.6	424.0	28.59	15.834		
12,200.0	11,566.0	12,045.7	11,395.0	15.0	14.5	67.80	-315.3	-623.7	452.6	423.3	29.35	15.422		
12,300.0	11,566.0	12,145.7	11,395.0	15.1	14.6	67.80	-415.3	-623.1	452.7	422.5	30.19	14.993		
12,400.0	11,566.0	12,245.7	11,395.0	15.1	14.9	67.80	-515.3	-622.6	452.7	421.6	31.10	14.555		
12,500.0	11,566.0	12,345.7	11,395.0	15.2	15.2	67.81	-615.3	-622.0	452.7	420.6	32.08	14.113		
12,600.0	11,566.0	12,445.7	11,395.0	15.3	15.5	67.81	-715.3	-621.5	452.7	419.6	33.11	13.673		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #12H
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 #12H	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 #11H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 10970-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
12,700.0	11,566.0	12,545.7	11,395.0	15.5	16.0	67.81	-815.3	-621.0	452.7	418.5	34.19	13.240		
12,800.0	11,566.0	12,645.7	11,395.0	15.8	16.5	67.81	-915.3	-620.4	452.7	417.4	35.33	12.816		
12,900.0	11,566.0	12,745.7	11,395.0	16.3	17.1	67.81	-1,015.3	-619.9	452.7	416.2	36.50	12.403		
13,000.0	11,566.0	12,845.7	11,395.0	16.9	17.7	67.81	-1,115.3	-619.3	452.7	415.0	37.72	12.003		
13,100.0	11,566.0	12,945.7	11,395.0	17.6	18.4	67.81	-1,215.3	-618.8	452.8	413.8	38.97	11.618		
13,200.0	11,566.0	13,045.7	11,395.0	18.3	19.1	67.81	-1,315.3	-618.3	452.8	412.5	40.25	11.248		
13,300.0	11,566.0	13,145.7	11,395.0	19.0	19.7	67.81	-1,415.3	-617.7	452.8	411.2	41.57	10.893		
13,400.0	11,566.0	13,245.7	11,395.0	19.8	20.5	67.81	-1,515.3	-617.2	452.8	409.9	42.91	10.553		
13,500.0	11,566.0	13,345.7	11,395.0	20.5	21.2	67.81	-1,615.3	-616.6	452.8	408.5	44.27	10.228		
13,600.0	11,566.0	13,445.7	11,395.0	21.3	21.9	67.81	-1,715.3	-616.1	452.8	407.2	45.66	9.917		
13,700.0	11,566.0	13,545.7	11,395.0	22.1	22.7	67.81	-1,815.3	-615.6	452.8	405.8	47.07	9.621		
13,800.0	11,566.0	13,645.7	11,395.0	22.9	23.4	67.81	-1,915.3	-615.0	452.8	404.4	48.49	9.339		
13,900.0	11,566.0	13,745.7	11,395.0	23.6	24.2	67.81	-2,015.3	-614.5	452.9	402.9	49.93	9.069		
14,000.0	11,566.0	13,845.7	11,395.0	24.4	25.0	67.82	-2,115.2	-614.0	452.9	401.5	51.39	8.812		
14,100.0	11,566.0	13,945.7	11,395.0	25.2	25.7	67.82	-2,215.2	-613.4	452.9	400.0	52.86	8.567		
14,200.0	11,566.0	14,045.7	11,395.0	26.0	26.5	67.82	-2,315.2	-612.9	452.9	398.5	54.35	8.333		
14,300.0	11,566.0	14,145.7	11,395.0	26.8	27.3	67.82	-2,415.2	-612.3	452.9	397.1	55.84	8.110		
14,400.0	11,566.0	14,245.7	11,395.0	27.6	28.1	67.82	-2,515.2	-611.8	452.9	395.6	57.35	7.897		
14,500.0	11,566.0	14,345.7	11,395.0	28.4	28.9	67.82	-2,615.2	-611.3	452.9	394.1	58.87	7.694		
14,600.0	11,566.0	14,445.7	11,395.0	29.3	29.7	67.82	-2,715.2	-610.7	452.9	392.6	60.40	7.499		
14,700.0	11,566.0	14,545.7	11,395.0	30.1	30.5	67.82	-2,815.2	-610.2	453.0	391.0	61.93	7.314		
14,800.0	11,566.0	14,645.7	11,395.0	30.9	31.3	67.82	-2,915.2	-609.6	453.0	389.5	63.48	7.136		
14,900.0	11,566.0	14,745.7	11,395.0	31.7	32.1	67.82	-3,015.2	-609.1	453.0	388.0	65.03	6.966		
15,000.0	11,566.0	14,845.7	11,395.0	32.5	32.9	67.82	-3,115.2	-608.6	453.0	386.4	66.59	6.803		
15,100.0	11,566.0	14,945.7	11,395.0	33.4	33.7	67.82	-3,215.2	-608.0	453.0	384.9	68.15	6.647		
15,200.0	11,566.0	15,045.7	11,395.0	34.2	34.5	67.82	-3,315.2	-607.5	453.0	383.3	69.72	6.497		
15,300.0	11,566.0	15,145.7	11,395.0	35.0	35.4	67.82	-3,415.2	-607.0	453.0	381.7	71.30	6.354		
15,400.0	11,566.0	15,245.7	11,395.0	35.8	36.2	67.82	-3,515.2	-606.4	453.0	380.2	72.88	6.216		
15,500.0	11,566.0	15,345.7	11,395.0	36.7	37.0	67.83	-3,615.2	-605.9	453.1	378.6	74.47	6.084		
15,600.0	11,566.0	15,445.7	11,395.0	37.5	37.8	67.83	-3,715.2	-605.3	453.1	377.0	76.06	5.957		
15,700.0	11,566.0	15,545.7	11,395.0	38.3	38.7	67.83	-3,815.2	-604.8	453.1	375.4	77.66	5.834		
15,800.0	11,566.0	15,645.7	11,395.0	39.2	39.5	67.83	-3,915.2	-604.3	453.1	373.8	79.26	5.717		
15,900.0	11,566.0	15,745.7	11,395.0	40.0	40.3	67.83	-4,015.2	-603.7	453.1	372.3	80.86	5.604		
16,000.0	11,566.0	15,845.7	11,395.0	40.8	41.1	67.83	-4,115.2	-603.2	453.1	370.7	82.47	5.494		
16,100.0	11,566.0	15,945.7	11,395.0	41.7	42.0	67.83	-4,215.2	-602.6	453.1	369.1	84.08	5.389		
16,200.0	11,566.0	16,045.7	11,395.0	42.5	42.8	67.83	-4,315.2	-602.1	453.2	367.5	85.69	5.288		
16,300.0	11,566.0	16,145.7	11,395.0	43.3	43.6	67.83	-4,415.2	-601.6	453.2	365.9	87.31	5.190		
16,400.0	11,566.0	16,245.7	11,395.0	44.2	44.5	67.83	-4,515.2	-601.0	453.2	364.2	88.93	5.096		
16,500.0	11,566.0	16,345.7	11,395.0	45.0	45.3	67.83	-4,615.2	-600.5	453.2	362.6	90.56	5.005		
16,600.0	11,566.0	16,445.7	11,395.0	45.9	46.1	67.83	-4,715.2	-599.9	453.2	361.0	92.18	4.916		
16,700.0	11,566.0	16,545.7	11,395.0	46.7	47.0	67.83	-4,815.2	-599.4	453.2	359.4	93.81	4.831		
16,800.0	11,566.0	16,645.7	11,395.0	47.5	47.8	67.83	-4,915.2	-598.9	453.2	357.8	95.44	4.749		
16,900.0	11,566.0	16,745.7	11,395.0	48.4	48.6	67.83	-5,015.2	-598.3	453.2	356.2	97.07	4.669		
17,000.0	11,566.0	16,845.7	11,395.0	49.2	49.5	67.84	-5,115.2	-597.8	453.3	354.5	98.71	4.592		
17,100.0	11,566.0	16,945.7	11,395.0	50.1	50.3	67.84	-5,215.2	-597.3	453.3	352.9	100.34	4.517		
17,200.0	11,566.0	17,045.7	11,395.0	50.9	51.2	67.84	-5,315.2	-596.7	453.3	351.3	101.98	4.445		
17,300.0	11,566.0	17,145.7	11,395.0	51.8	52.0	67.84	-5,415.2	-596.2	453.3	349.7	103.62	4.374		
17,400.0	11,566.0	17,245.7	11,395.0	52.6	52.8	67.84	-5,515.2	-595.6	453.3	348.0	105.26	4.306		
17,500.0	11,566.0	17,345.7	11,395.0	53.5	53.7	67.84	-5,615.2	-595.1	453.3	346.4	106.91	4.240		
17,600.0	11,566.0	17,445.7	11,395.0	54.3	54.5	67.84	-5,715.2	-594.6	453.3	344.8	108.55	4.176		
17,700.0	11,566.0	17,545.7	11,395.0	55.1	55.4	67.84	-5,815.2	-594.0	453.3	343.1	110.20	4.114		
17,800.0	11,566.0	17,645.7	11,395.0	56.0	56.2	67.84	-5,915.2	-593.5	453.4	341.5	111.85	4.053		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #12H
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 #12H	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 #11H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 10970-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
							+N-S (usft)	+E-W (usft)						
17,900.0	11,566.0	17,745.7	11,395.0	56.8	57.0	67.84	-6,015.2	-592.9	453.4	339.9	113.50	3.995		
18,000.0	11,566.0	17,845.7	11,395.0	57.7	57.9	67.84	-6,115.2	-592.4	453.4	338.2	115.15	3.937		
18,100.0	11,566.0	17,945.7	11,395.0	58.5	58.7	67.84	-6,215.2	-591.9	453.4	336.6	116.80	3.882		
18,200.0	11,566.0	18,045.7	11,395.0	59.4	59.6	67.84	-6,315.2	-591.3	453.4	335.0	118.45	3.828		
18,300.0	11,566.0	18,145.7	11,395.0	60.2	60.4	67.84	-6,415.2	-590.8	453.4	333.3	120.11	3.775		
18,400.0	11,566.0	18,245.7	11,395.0	61.1	61.3	67.84	-6,515.2	-590.2	453.4	331.7	121.76	3.724		
18,500.0	11,566.0	18,345.7	11,395.0	61.9	62.1	67.84	-6,615.2	-589.7	453.4	330.0	123.42	3.674		
18,600.0	11,566.0	18,445.7	11,395.0	62.8	63.0	67.85	-6,715.2	-589.2	453.5	328.4	125.08	3.625		
18,672.6	11,566.0	18,518.2	11,395.0	63.2	63.6	67.85	-6,787.7	-588.8	453.5	327.4	126.10	3.596		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #12H
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 #12H	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	89.57	0.1	19.9	19.9	13.9	6.00	3.313		
100.0	100.0	99.9	99.9	3.0	3.0	89.57	0.1	19.9	19.9	13.9	6.00	3.312		
200.0	200.0	199.9	199.9	3.0	3.0	89.57	0.1	19.9	19.9	13.9	6.01	3.308		
300.0	300.0	299.9	299.9	3.0	3.0	89.57	0.1	19.9	19.9	13.9	6.02	3.303		
400.0	400.0	399.9	399.9	3.1	3.1	89.57	0.1	19.9	19.9	13.8	6.03	3.297		
500.0	500.0	499.9	499.9	3.1	3.1	89.57	0.1	19.9	19.9	13.8	6.05	3.288		
600.0	600.0	599.9	599.9	3.1	3.1	89.57	0.1	19.9	19.9	13.8	6.07	3.278		
700.0	700.0	699.9	699.9	3.2	3.2	89.57	0.1	19.9	19.9	13.8	6.09	3.266		
800.0	800.0	799.9	799.9	3.2	3.2	89.57	0.1	19.9	19.9	13.8	6.11	3.253		
900.0	900.0	899.9	899.9	3.2	3.2	89.57	0.1	19.9	19.9	13.7	6.14	3.238		
1,000.0	1,000.0	999.9	999.9	3.3	3.3	89.57	0.1	19.9	19.9	13.7	6.17	3.221		
1,100.0	1,100.0	1,099.9	1,099.9	3.4	3.4	89.57	0.1	19.9	19.9	13.7	6.21	3.204		
1,200.0	1,200.0	1,199.9	1,199.9	3.4	3.4	89.57	0.1	19.9	19.9	13.6	6.24	3.185		
1,300.0	1,300.0	1,299.9	1,299.9	3.5	3.5	89.57	0.1	19.9	19.9	13.6	6.28	3.164		
1,400.0	1,400.0	1,399.9	1,399.9	3.5	3.5	89.57	0.1	19.9	19.9	13.6	6.33	3.143		
1,500.0	1,500.0	1,499.9	1,499.9	3.6	3.6	89.57	0.1	19.9	19.9	13.5	6.37	3.120		
1,600.0	1,600.0	1,599.9	1,599.9	3.7	3.7	89.57	0.1	19.9	19.9	13.5	6.42	3.097		
1,700.0	1,700.0	1,699.9	1,699.9	3.8	3.8	89.57	0.1	19.9	19.9	13.4	6.47	3.072		
1,800.0	1,800.0	1,799.9	1,799.9	3.9	3.9	89.57	0.1	19.9	19.9	13.4	6.52	3.047		
1,900.0	1,900.0	1,899.9	1,899.9	3.9	3.9	89.57	0.1	19.9	19.9	13.3	6.58	3.021		
2,000.0	2,000.0	1,999.9	1,999.9	4.0	4.0	89.57	0.1	19.9	19.9	13.2	6.64	2.995		
2,100.0	2,100.0	2,099.9	2,099.9	4.1	4.1	89.57	0.1	19.9	19.9	13.2	6.70	2.967		
2,200.0	2,200.0	2,199.9	2,199.9	4.2	4.2	89.57	0.1	19.9	19.9	13.1	6.76	2.940		
2,300.0	2,300.0	2,299.9	2,299.9	4.3	4.3	89.57	0.1	19.9	19.9	13.1	6.83	2.911		
2,400.0	2,400.0	2,399.9	2,399.9	4.4	4.4	89.57	0.1	19.9	19.9	13.0	6.90	2.883 CC, ES, SF		
2,500.0	2,500.0	2,499.9	2,499.9	4.5	4.5	112.74	1.7	20.6	21.3	14.3	6.97	3.059		
2,600.0	2,600.0	2,599.6	2,599.6	4.6	4.6	112.95	6.4	22.8	25.6	18.5	7.04	3.635		
2,700.0	2,699.8	2,699.1	2,699.0	4.7	4.7	113.15	14.2	26.5	32.7	25.6	7.11	4.596		
2,800.0	2,799.5	2,798.5	2,797.9	4.8	4.8	113.76	24.7	31.5	42.5	35.3	7.20	5.903		
2,900.0	2,898.7	2,897.7	2,896.5	4.9	4.8	115.52	35.7	36.7	53.2	45.9	7.29	7.297		
3,000.0	2,997.7	2,997.1	2,995.2	5.0	5.0	117.53	46.6	41.8	63.9	56.5	7.38	8.655		
3,100.0	3,096.8	3,096.5	3,093.8	5.1	5.1	118.15	57.6	47.0	74.7	67.2	7.48	9.975		
3,200.0	3,195.8	3,196.0	3,192.5	5.2	5.2	118.64	68.5	52.2	85.4	77.8	7.59	11.256		
3,300.0	3,294.8	3,295.4	3,291.2	5.3	5.3	119.02	79.5	57.4	96.2	88.5	7.70	12.496		
3,400.0	3,393.8	3,394.8	3,389.9	5.4	5.4	119.34	90.4	62.5	107.0	99.2	7.81	13.696		
3,500.0	3,492.9	3,494.2	3,488.5	5.5	5.5	119.60	101.4	67.7	117.7	109.8	7.93	14.855		
3,600.0	3,591.9	3,593.6	3,587.2	5.6	5.6	119.82	112.3	72.9	128.5	120.5	8.05	15.972		
3,700.0	3,690.9	3,693.0	3,685.9	5.7	5.7	120.01	123.3	78.1	139.3	131.1	8.17	17.049		
3,800.0	3,789.9	3,792.4	3,784.6	5.8	5.8	120.18	134.3	83.3	150.1	141.8	8.30	18.086		
3,900.0	3,889.0	3,891.9	3,883.2	5.9	5.9	120.32	145.2	88.4	160.9	152.4	8.43	19.082		
4,000.0	3,988.0	3,991.3	3,981.9	6.0	6.0	120.45	156.2	93.6	171.7	163.1	8.57	20.038		
4,100.0	4,087.0	4,090.7	4,080.6	6.1	6.1	120.56	167.1	98.8	182.5	173.8	8.71	20.955		
4,200.0	4,186.0	4,190.1	4,179.2	6.2	6.2	120.66	178.1	104.0	193.2	184.4	8.85	21.833		
4,300.0	4,285.1	4,289.5	4,277.9	6.3	6.3	120.75	189.0	109.1	204.0	195.0	9.00	22.674		
4,400.0	4,384.1	4,388.9	4,376.6	6.4	6.4	120.84	200.0	114.3	214.8	205.7	9.15	23.478		
4,500.0	4,483.1	4,488.4	4,475.3	6.5	6.5	120.91	210.9	119.5	225.6	216.3	9.31	24.246		
4,600.0	4,582.2	4,587.8	4,573.9	6.6	6.6	120.98	221.9	124.7	236.4	226.9	9.46	24.979		
4,700.0	4,681.2	4,687.2	4,672.6	6.7	6.7	121.04	232.8	129.8	247.2	237.6	9.63	25.679		
4,800.0	4,780.2	4,786.6	4,771.3	6.9	6.8	121.10	243.8	135.0	258.0	248.2	9.79	26.345		
4,900.0	4,879.2	4,886.0	4,870.0	7.0	6.9	121.15	254.8	140.2	268.8	258.8	9.96	26.979		
5,000.0	4,978.3	4,985.4	4,968.6	7.1	7.1	121.15	265.7	145.4	279.6	269.4	10.14	27.583		
5,100.0	5,077.3	5,084.8	5,067.3											

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #12H
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 #12H	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													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,200.0	5,176.3	5,184.3	5,166.0	7.2	7.2	121.20	276.7	150.5	290.4	280.1	10.31	28.157		
5,300.0	5,275.3	5,283.7	5,264.7	7.3	7.3	121.25	287.6	155.7	301.2	290.7	10.49	28.702		
5,400.0	5,374.4	5,383.1	5,363.3	7.4	7.4	121.29	298.6	160.9	312.0	301.3	10.68	29.220		
5,500.0	5,473.4	5,482.5	5,462.0	7.5	7.5	121.33	309.5	166.1	322.8	311.9	10.86	29.711		
5,600.0	5,572.4	5,581.9	5,560.7	7.7	7.6	121.36	320.5	171.2	333.6	322.5	11.05	30.177		
5,700.0	5,671.5	5,681.3	5,659.4	7.8	7.7	121.40	331.4	176.4	344.4	333.1	11.25	30.618		
5,800.0	5,770.5	5,780.8	5,758.0	7.9	7.9	121.43	342.4	181.6	355.1	343.7	11.44	31.036		
5,900.0	5,869.5	5,880.2	5,856.7	8.0	8.0	121.46	353.3	186.8	365.9	354.3	11.64	31.431		
6,000.0	5,968.5	5,979.6	5,955.4	8.1	8.1	121.49	364.3	192.0	376.7	364.9	11.85	31.805		
6,100.0	6,067.6	6,079.0	6,054.1	8.3	8.2	121.52	375.2	197.1	387.5	375.5	12.05	32.158		
6,130.7	6,097.9	6,109.5	6,084.3	8.3	8.2	121.53	378.6	198.7	390.8	378.7	12.11	32.262		
6,200.0	6,166.6	6,178.4	6,152.8	8.4	8.3	121.55	386.2	202.3	398.1	385.8	12.26	32.479		
6,300.0	6,265.9	6,278.0	6,251.5	8.5	8.5	121.41	397.2	207.5	407.8	395.4	12.46	32.737		
6,400.0	6,365.4	6,377.5	6,350.4	8.6	8.6	121.07	408.1	212.7	416.6	404.0	12.65	32.934		
6,500.0	6,465.1	6,477.1	6,449.2	8.7	8.7	120.53	419.1	217.9	424.6	411.8	12.84	33.075		
6,600.0	6,564.8	6,576.7	6,548.0	8.9	8.8	119.81	430.1	223.0	431.7	418.7	13.02	33.164		
6,700.0	6,664.7	6,676.2	6,646.8	9.0	8.9	118.91	441.1	228.2	438.1	424.9	13.19	33.222		
6,800.0	6,764.7	6,775.7	6,745.5	9.1	9.0	117.83	452.0	233.4	443.8	430.4	13.35	33.249		
6,900.0	6,864.7	6,877.3	6,846.4	9.2	9.2	116.62	462.7	238.5	448.7	435.2	13.50	33.225		
6,930.7	6,895.3	6,908.7	6,877.7	9.2	9.2	93.17	465.8	239.9	449.9	436.4	13.55	33.205		
7,000.0	6,964.7	6,979.9	6,948.5	9.3	9.3	92.36	472.0	242.8	452.5	438.9	13.65	33.158		
7,100.0	7,064.7	7,082.8	7,051.1	9.5	9.4	91.38	479.6	246.4	455.8	442.0	13.79	33.059		
7,200.0	7,164.7	7,186.0	7,154.1	9.6	9.5	90.63	485.6	249.3	458.4	444.5	13.92	32.923		
7,300.0	7,264.7	7,289.4	7,257.3	9.7	9.7	90.10	489.8	251.3	460.3	446.3	14.05	32.763		
7,400.0	7,364.7	7,392.9	7,360.8	9.8	9.8	89.77	492.4	252.5	461.5	447.4	14.17	32.574		
7,500.0	7,464.7	7,496.5	7,464.4	9.9	9.9	89.66	493.3	252.9	461.9	447.7	14.28	32.350		
7,600.0	7,564.7	7,596.6	7,564.6	10.1	10.0	89.66	493.3	252.9	461.9	447.6	14.38	32.121		
7,700.0	7,664.7	7,696.6	7,664.6	10.2	10.2	89.66	493.3	252.9	461.9	447.5	14.48	31.895		
7,800.0	7,764.7	7,796.6	7,764.6	10.3	10.3	89.66	493.3	252.9	461.9	447.4	14.59	31.671		
7,900.0	7,864.7	7,896.6	7,864.6	10.4	10.4	89.66	493.3	252.9	461.9	447.3	14.69	31.448		
8,000.0	7,964.7	7,996.6	7,964.6	10.6	10.5	89.66	493.3	252.9	461.9	447.2	14.79	31.228		
8,100.0	8,064.7	8,096.6	8,064.6	10.7	10.7	89.66	493.3	252.9	461.9	447.0	14.90	31.009		
8,200.0	8,164.7	8,196.6	8,164.6	10.8	10.8	89.66	493.3	252.9	461.9	446.9	15.00	30.792		
8,300.0	8,264.7	8,296.6	8,264.6	10.9	10.9	89.66	493.3	252.9	461.9	446.8	15.11	30.577		
8,400.0	8,364.7	8,396.6	8,364.6	11.0	11.0	89.66	493.3	252.9	461.9	446.7	15.21	30.364		
8,500.0	8,464.7	8,496.6	8,464.6	11.2	11.1	89.66	493.3	252.9	461.9	446.6	15.32	30.152		
8,600.0	8,564.7	8,596.6	8,564.6	11.3	11.3	89.66	493.3	252.9	461.9	446.5	15.43	29.943		
8,700.0	8,664.7	8,696.6	8,664.6	11.4	11.4	89.66	493.3	252.9	461.9	446.4	15.54	29.736		
8,800.0	8,764.7	8,796.6	8,764.6	11.5	11.5	89.66	493.3	252.9	461.9	446.3	15.64	29.530		
8,900.0	8,864.7	8,896.6	8,864.6	11.7	11.6	89.66	493.3	252.9	461.9	446.2	15.75	29.326		
9,000.0	8,964.7	8,996.6	8,964.6	11.8	11.8	89.66	493.3	252.9	461.9	446.1	15.86	29.125		
9,100.0	9,064.7	9,096.6	9,064.6	11.9	11.9	89.66	493.3	252.9	461.9	446.0	15.97	28.925		
9,200.0	9,164.7	9,196.6	9,164.6	12.0	12.0	89.66	493.3	252.9	461.9	445.9	16.08	28.727		
9,300.0	9,264.7	9,296.6	9,264.6	12.2	12.1	89.66	493.3	252.9	461.9	445.8	16.19	28.531		
9,400.0	9,364.7	9,396.6	9,364.6	12.3	12.3	89.66	493.3	252.9	461.9	445.6	16.30	28.336		
9,500.0	9,464.7	9,496.6	9,464.6	12.4	12.4	89.66	493.3	252.9	461.9	445.5	16.41	28.144		
9,600.0	9,564.7	9,596.6	9,564.6	12.5	12.5	89.66	493.3	252.9	461.9	445.4	16.53	27.953		
9,700.0	9,664.7	9,696.6	9,664.6	12.7	12.6	89.66	493.3	252.9	461.9	445.3	16.64	27.765		
9,800.0	9,764.7	9,796.6	9,764.6	12.8	12.8	89.66	493.3	252.9	461.9	445.2	16.75	27.578		
9,900.0	9,864.7	9,896.6	9,864.6	12.9	12.9	89.66	493.3	252.9	461.9	445.1	16.86	27.393		
10,000.0	9,964.7	9,996.6	9,964.6	13.0	13.0	89.66	493.3	252.9	461.9	445.0	16.98	27.210		
10,100.0	10,064.7	10,096.6	10,064.6	13.2	13.1	89.66	493.3	252.9	461.9	444.9	17.09	27.029		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #12H
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 #12H	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													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,200.0	10,164.7	10,196.6	10,164.6	13.3	13.3	89.66	493.3	252.9	461.9	444.7	17.21	26.849		
10,300.0	10,264.7	10,296.6	10,264.6	13.4	13.4	89.66	493.3	252.9	461.9	444.6	17.32	26.672		
10,400.0	10,364.7	10,396.6	10,364.6	13.6	13.5	89.66	493.3	252.9	461.9	444.5	17.43	26.496		
10,500.0	10,464.7	10,496.6	10,464.6	13.7	13.6	89.66	493.3	252.9	461.9	444.4	17.55	26.322		
10,600.0	10,564.7	10,596.6	10,564.6	13.8	13.8	89.66	493.3	252.9	461.9	444.3	17.67	26.149		
10,700.0	10,664.7	10,696.6	10,664.6	13.9	13.9	89.66	493.3	252.9	461.9	444.2	17.78	25.979		
10,800.0	10,764.7	10,796.6	10,764.6	14.1	14.0	89.66	493.3	252.9	461.9	444.0	17.90	25.810		
10,900.0	10,864.7	10,896.6	10,864.6	14.2	14.1	89.66	493.3	252.9	461.9	443.9	18.01	25.643		
11,000.0	10,964.7	10,996.6	10,964.6	14.3	14.2	89.94	491.1	252.9	461.9	443.8	18.09	25.529		
11,006.1	10,970.8	11,002.8	10,970.7	14.3	14.2	90.01	490.5	252.9	461.9	443.8	18.10	25.523		
11,100.0	11,064.7	11,093.1	11,058.9	14.4	14.2	92.28	472.2	252.9	462.3	444.1	18.20	25.404		
11,123.8	11,088.5	11,114.7	11,079.4	14.5	14.2	93.12	465.4	252.9	462.7	444.5	18.25	25.352		
11,125.0	11,089.7	11,115.7	11,080.4	14.5	14.2	-86.52	465.1	252.9	462.7	444.5	18.23	25.378		
11,150.0	11,114.7	11,137.8	11,101.0	14.5	14.2	-85.54	457.1	252.9	463.3	445.0	18.28	25.341		
11,175.0	11,139.6	11,159.7	11,121.0	14.5	14.2	-84.57	448.3	252.9	464.0	445.6	18.35	25.285		
11,200.0	11,164.3	11,181.2	11,140.3	14.5	14.3	-83.63	438.7	252.9	464.8	446.3	18.44	25.208		
11,225.0	11,188.9	11,202.5	11,158.9	14.5	14.3	-82.70	428.4	252.9	465.7	447.1	18.55	25.109		
11,250.0	11,213.2	11,225.0	11,178.1	14.5	14.3	-81.74	416.6	252.9	466.7	448.0	18.66	25.004		
11,275.0	11,237.2	11,244.2	11,194.0	14.5	14.3	-80.91	405.8	252.9	467.8	448.9	18.83	24.837		
11,300.0	11,260.7	11,264.8	11,210.5	14.5	14.3	-80.05	393.6	252.9	468.9	449.9	19.01	24.663		
11,325.0	11,283.8	11,285.2	11,226.4	14.5	14.3	-79.22	380.8	252.9	470.2	450.9	19.22	24.466		
11,350.0	11,306.3	11,305.3	11,241.5	14.5	14.3	-78.42	367.5	252.9	471.4	452.0	19.44	24.247		
11,375.0	11,328.2	11,325.0	11,255.7	14.5	14.4	-77.65	353.9	252.9	472.7	453.0	19.70	24.002		
11,400.0	11,349.5	11,345.1	11,269.7	14.6	14.4	-76.90	339.4	252.9	474.1	454.1	19.96	23.753		
11,425.0	11,370.1	11,364.8	11,282.7	14.6	14.4	-76.18	324.6	252.9	475.4	455.1	20.24	23.483		
11,450.0	11,389.9	11,384.4	11,295.0	14.6	14.4	-75.50	309.5	252.9	476.7	456.2	20.54	23.205		
11,475.0	11,408.9	11,403.8	11,306.7	14.6	14.4	-74.86	293.9	252.9	478.0	457.2	20.86	22.919		
11,500.0	11,426.9	11,425.0	11,318.6	14.6	14.5	-74.20	276.4	252.9	479.3	458.2	21.15	22.666		
11,525.0	11,444.1	11,442.2	11,327.8	14.7	14.5	-73.67	261.8	252.9	480.6	459.0	21.51	22.341		
11,550.0	11,460.3	11,461.3	11,337.3	14.7	14.5	-73.13	245.3	252.9	481.8	459.9	21.84	22.054		
11,575.0	11,475.5	11,480.3	11,346.0	14.7	14.5	-72.63	228.4	252.9	482.9	460.7	22.18	21.773		
11,600.0	11,489.6	11,500.0	11,354.5	14.7	14.5	-72.15	210.6	252.9	484.0	461.5	22.50	21.512		
11,625.0	11,502.6	11,518.0	11,361.5	14.8	14.5	-71.74	194.0	252.9	485.0	462.1	22.84	21.234		
11,650.0	11,514.5	11,536.7	11,368.1	14.8	14.6	-71.36	176.5	252.9	485.9	462.7	23.16	20.979		
11,675.0	11,525.2	11,555.4	11,374.1	14.8	14.6	-71.01	158.8	252.9	486.7	463.3	23.47	20.737		
11,700.0	11,534.7	11,575.0	11,379.6	14.8	14.6	-70.69	140.0	252.9	487.5	463.7	23.76	20.517		
11,725.0	11,543.0	11,592.6	11,383.8	14.8	14.6	-70.44	122.9	252.8	488.1	464.1	24.05	20.292		
11,750.0	11,550.0	11,611.2	11,387.6	14.9	14.6	-70.21	104.7	252.8	488.6	464.3	24.32	20.090		
11,775.0	11,555.8	11,629.7	11,390.7	14.9	14.6	-70.03	86.5	252.8	489.1	464.5	24.57	19.903		
11,800.0	11,560.3	11,650.0	11,393.3	14.9	14.6	-69.87	66.3	252.8	489.4	464.6	24.79	19.739		
11,825.0	11,563.5	11,666.6	11,394.8	14.9	14.6	-69.78	49.8	252.8	489.6	464.6	25.01	19.573		
11,850.0	11,565.4	11,685.1	11,395.7	14.9	14.6	-69.72	31.4	252.8	489.6	464.4	25.20	19.430		
11,873.8	11,566.0	11,703.4	11,396.0	14.9	14.6	-69.69	13.0	252.8	489.6	464.2	25.36	19.308		
11,900.0	11,566.0	11,729.6	11,396.0	14.9	14.7	-69.69	-13.1	252.8	489.5	464.0	25.51	19.184		
12,000.0	11,566.0	11,829.6	11,396.0	14.9	14.7	-69.67	-113.1	252.8	488.9	462.8	26.17	18.685		
12,100.0	11,566.0	11,929.6	11,396.0	15.0	14.7	-69.64	-213.1	252.8	488.4	461.5	26.91	18.149		
12,200.0	11,566.0	12,029.6	11,396.0	15.0	14.8	-69.62	-313.1	252.7	487.8	460.1	27.74	17.588		
12,300.0	11,566.0	12,129.6	11,396.0	15.1	14.8	-69.59	-413.1	252.7	487.3	458.7	28.64	17.013		
12,400.0	11,566.0	12,229.6	11,396.0	15.1	14.9	-69.57	-513.1	252.7	486.8	457.1	29.62	16.435		
12,500.0	11,566.0	12,329.6	11,396.0	15.2	15.0	-69.55	-613.1	252.7	486.2	455.6	30.65	15.861		
12,600.0	11,566.0	12,429.6	11,396.0	15.3	15.2	-69.52	-713.1	252.6	485.7	453.9	31.75	15.298		
12,700.0	11,566.0	12,529.6	11,396.0	15.5	15.4	-69.50	-813.1	252.6	485.1	452.2	32.89	14.748		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #12H
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 #12H	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													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
12,800.0	11,566.0	12,629.6	11,396.0	15.8	15.8	-69.48	-913.1	252.6	484.6	450.5	34.09	14.217		
12,900.0	11,566.0	12,729.6	11,396.0	16.3	16.4	-69.45	-1,013.1	252.6	484.1	448.7	35.32	13.705		
13,000.0	11,566.0	12,829.6	11,396.0	16.9	17.0	-69.43	-1,113.1	252.6	483.5	446.9	36.59	13.214		
13,100.0	11,566.0	12,929.6	11,396.0	17.6	17.7	-69.40	-1,213.1	252.5	483.0	445.1	37.89	12.745		
13,200.0	11,566.0	13,029.6	11,396.0	18.3	18.4	-69.38	-1,313.1	252.5	482.4	443.2	39.23	12.298		
13,300.0	11,566.0	13,129.5	11,396.0	19.0	19.1	-69.36	-1,413.1	252.5	481.9	441.3	40.59	11.872		
13,400.0	11,566.0	13,229.5	11,396.0	19.8	19.8	-69.33	-1,513.1	252.5	481.4	439.4	41.98	11.468		
13,500.0	11,566.0	13,329.5	11,396.0	20.5	20.6	-69.31	-1,613.1	252.4	480.8	437.4	43.38	11.083		
13,600.0	11,566.0	13,429.5	11,396.0	21.3	21.4	-69.28	-1,713.1	252.4	480.3	435.5	44.81	10.718		
13,700.0	11,566.0	13,529.5	11,396.0	22.1	22.1	-69.26	-1,813.1	252.4	479.7	433.5	46.26	10.371		
13,800.0	11,566.0	13,629.5	11,396.0	22.9	22.9	-69.23	-1,913.1	252.4	479.2	431.5	47.72	10.042		
13,900.0	11,566.0	13,729.5	11,396.0	23.6	23.7	-69.21	-2,013.1	252.3	478.7	429.5	49.20	9.729		
14,000.0	11,566.0	13,829.5	11,396.0	24.4	24.5	-69.19	-2,113.1	252.3	478.1	427.4	50.69	9.433		
14,100.0	11,566.0	13,929.5	11,396.0	25.2	25.3	-69.16	-2,213.1	252.3	477.6	425.4	52.19	9.150		
14,200.0	11,566.0	14,029.5	11,396.0	26.0	26.1	-69.14	-2,313.1	252.3	477.1	423.3	53.71	8.882		
14,300.0	11,566.0	14,129.5	11,396.0	26.8	26.9	-69.11	-2,413.1	252.2	476.5	421.3	55.23	8.627		
14,400.0	11,566.0	14,229.5	11,396.0	27.6	27.7	-69.09	-2,513.1	252.2	476.0	419.2	56.77	8.384		
14,500.0	11,566.0	14,329.5	11,396.0	28.4	28.5	-69.06	-2,613.1	252.2	475.4	417.1	58.31	8.153		
14,600.0	11,566.0	14,429.5	11,396.0	29.3	29.3	-69.04	-2,713.1	252.2	474.9	415.0	59.87	7.933		
14,700.0	11,566.0	14,529.5	11,396.0	30.1	30.1	-69.01	-2,813.1	252.1	474.4	412.9	61.43	7.722		
14,800.0	11,566.0	14,629.5	11,396.0	30.9	30.9	-68.99	-2,913.1	252.1	473.8	410.8	62.99	7.522		
14,900.0	11,566.0	14,729.5	11,396.0	31.7	31.7	-68.96	-3,013.1	252.1	473.3	408.7	64.57	7.330		
15,000.0	11,566.0	14,829.5	11,396.0	32.5	32.6	-68.94	-3,113.1	252.1	472.7	406.6	66.15	7.147		
15,100.0	11,566.0	14,929.5	11,396.0	33.4	33.4	-68.91	-3,213.1	252.0	472.2	404.5	67.73	6.972		
15,200.0	11,566.0	15,029.5	11,396.0	34.2	34.2	-68.89	-3,313.1	252.0	471.7	402.3	69.32	6.804		
15,300.0	11,566.0	15,129.5	11,396.0	35.0	35.0	-68.86	-3,413.1	252.0	471.1	400.2	70.92	6.643		
15,400.0	11,566.0	15,229.5	11,396.0	35.8	35.9	-68.84	-3,513.1	252.0	470.6	398.1	72.52	6.490		
15,500.0	11,566.0	15,329.5	11,396.0	36.7	36.7	-68.81	-3,613.1	252.0	470.1	395.9	74.12	6.342		
15,600.0	11,566.0	15,429.5	11,396.0	37.5	37.5	-68.79	-3,713.1	251.9	469.5	393.8	75.73	6.200		
15,700.0	11,566.0	15,529.5	11,396.0	38.3	38.3	-68.76	-3,813.1	251.9	469.0	391.6	77.34	6.064		
15,800.0	11,566.0	15,629.5	11,396.0	39.2	39.2	-68.73	-3,913.1	251.9	468.4	389.5	78.95	5.933		
15,900.0	11,566.0	15,729.5	11,396.0	40.0	40.0	-68.71	-4,013.1	251.9	467.9	387.3	80.57	5.807		
16,000.0	11,566.0	15,829.5	11,396.0	40.8	40.8	-68.68	-4,113.1	251.8	467.4	385.2	82.19	5.686		
16,100.0	11,566.0	15,929.5	11,396.0	41.7	41.7	-68.66	-4,213.1	251.8	466.8	383.0	83.82	5.570		
16,200.0	11,566.0	16,029.5	11,396.0	42.5	42.5	-68.63	-4,313.1	251.8	466.3	380.9	85.44	5.457		
16,300.0	11,566.0	16,129.5	11,396.0	43.3	43.4	-68.61	-4,413.1	251.8	465.8	378.7	87.07	5.349		
16,400.0	11,566.0	16,229.5	11,396.0	44.2	44.2	-68.58	-4,513.1	251.7	465.2	376.5	88.70	5.245		
16,500.0	11,566.0	16,329.5	11,396.0	45.0	45.0	-68.55	-4,613.1	251.7	464.7	374.3	90.34	5.144		
16,600.0	11,566.0	16,429.5	11,396.0	45.9	45.9	-68.53	-4,713.1	251.7	464.2	372.2	91.97	5.047		
16,700.0	11,566.0	16,529.5	11,396.0	46.7	46.7	-68.50	-4,813.1	251.7	463.6	370.0	93.61	4.952		
16,800.0	11,566.0	16,629.5	11,396.0	47.5	47.6	-68.48	-4,913.1	251.6	463.1	367.8	95.25	4.862		
16,900.0	11,566.0	16,729.5	11,396.0	48.4	48.4	-68.45	-5,013.0	251.6	462.5	365.6	96.89	4.774		
17,000.0	11,566.0	16,829.5	11,396.0	49.2	49.2	-68.42	-5,113.0	251.6	462.0	363.5	98.54	4.689		
17,100.0	11,566.0	16,929.5	11,396.0	50.1	50.1	-68.40	-5,213.0	251.6	461.5	361.3	100.18	4.606		
17,200.0	11,566.0	17,029.5	11,396.0	50.9	50.9	-68.37	-5,313.0	251.5	460.9	359.1	101.83	4.527		
17,300.0	11,566.0	17,129.5	11,396.0	51.8	51.8	-68.34	-5,413.0	251.5	460.4	356.9	103.48	4.449		
17,400.0	11,566.0	17,229.5	11,396.0	52.6	52.6	-68.32	-5,513.0	251.5	459.9	354.7	105.13	4.374		
17,500.0	11,566.0	17,329.5	11,396.0	53.5	53.5	-68.29	-5,613.0	251.5	459.3	352.5	106.78	4.302		
17,600.0	11,566.0	17,429.5	11,396.0	54.3	54.3	-68.26	-5,713.0	251.4	458.8	350.4	108.43	4.231		
17,700.0	11,566.0	17,529.5	11,396.0	55.1	55.1	-68.24	-5,813.0	251.4	458.3	348.2	110.08	4.163		
17,800.0	11,566.0	17,629.5	11,396.0	56.0	56.0	-68.21	-5,913.0	251.4	457.7	346.0	111.74	4.096		
17,900.0	11,566.0	17,729.5	11,396.0	56.8	56.8	-68.18	-6,013.0	251.4	457.2	343.8	113.39	4.032		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #12H
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 #12H	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													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance Between Centres		Between Ellipses	Minimum Separation	Separation Factor	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N-S (usft)	+E-W (usft)	(usft)	(usft)	(usft)	(usft)		
18,000.0	11,566.0	17,829.5	11,396.0	57.7	57.7	-68.16	-6,113.0	251.4	456.6	341.6	115.05	3.969		
18,100.0	11,566.0	17,929.5	11,396.0	58.5	58.5	-68.13	-6,213.0	251.3	456.1	339.4	116.70	3.908		
18,200.0	11,566.0	18,029.5	11,396.0	59.4	59.4	-68.10	-6,313.0	251.3	455.6	337.2	118.36	3.849		
18,300.0	11,566.0	18,129.5	11,396.0	60.2	60.2	-68.08	-6,413.0	251.3	455.0	335.0	120.02	3.791		
18,400.0	11,566.0	18,229.5	11,396.0	61.1	61.1	-68.05	-6,513.0	251.3	454.5	332.8	121.68	3.735		
18,500.0	11,566.0	18,329.5	11,396.0	61.9	61.9	-68.02	-6,613.0	251.2	454.0	330.6	123.34	3.681		
18,600.0	11,566.0	18,429.5	11,396.0	62.8	62.7	-67.99	-6,713.0	251.2	453.4	328.5	124.93	3.630		
18,671.5	11,566.0	18,499.5	11,396.0	63.2	63.1	-67.98	-6,783.0	251.2	453.1	327.3	125.75	3.603		
18,672.6	11,566.0	18,499.5	11,396.0	63.2	63.1	-67.98	-6,783.0	251.2	453.1	327.3	125.76	3.603		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #12H
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 #12H	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													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
				(usft)	(usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	0.0	0.0	3.0	3.0	-90.30	-0.3	-59.8	59.8					
100.0	100.0	99.7	99.7	3.0	3.0	-90.30	-0.3	-59.8	59.8	53.8	6.00	9.973		
200.0	200.0	199.7	199.7	3.0	3.0	-90.30	-0.3	-59.8	59.8	53.8	6.00	9.969		
300.0	300.0	299.7	299.7	3.0	3.0	-90.30	-0.3	-59.8	59.8	53.8	6.01	9.959		
400.0	400.0	399.7	399.7	3.0	3.0	-90.30	-0.3	-59.8	59.8	53.8	6.02	9.943		
500.0	500.0	499.7	499.7	3.1	3.1	-90.30	-0.3	-59.8	59.8	53.8	6.03	9.923		
600.0	600.0	599.7	599.7	3.1	3.1	-90.30	-0.3	-59.8	59.8	53.8	6.05	9.897		
700.0	700.0	699.7	699.7	3.1	3.1	-90.30	-0.3	-59.8	59.8	53.8	6.07	9.866		
800.0	800.0	799.7	799.7	3.2	3.2	-90.30	-0.3	-59.8	59.8	53.8	6.09	9.831		
900.0	900.0	899.7	899.7	3.2	3.2	-90.30	-0.3	-59.8	59.8	53.7	6.11	9.790		
1,000.0	1,000.0	999.7	999.7	3.2	3.2	-90.30	-0.3	-59.8	59.8	53.7	6.14	9.746		
1,100.0	1,100.0	1,099.7	1,099.7	3.3	3.3	-90.30	-0.3	-59.8	59.8	53.7	6.17	9.696		
1,200.0	1,200.0	1,199.7	1,199.7	3.4	3.4	-90.30	-0.3	-59.8	59.8	53.6	6.21	9.643		
1,300.0	1,300.0	1,299.7	1,299.7	3.4	3.4	-90.30	-0.3	-59.8	59.8	53.6	6.24	9.586		
1,400.0	1,400.0	1,399.7	1,399.7	3.5	3.5	-90.30	-0.3	-59.8	59.8	53.6	6.28	9.525		
1,500.0	1,500.0	1,499.7	1,499.7	3.5	3.5	-90.30	-0.3	-59.8	59.8	53.5	6.33	9.460		
1,600.0	1,600.0	1,599.7	1,599.7	3.6	3.6	-90.30	-0.3	-59.8	59.8	53.5	6.37	9.392		
1,700.0	1,700.0	1,699.7	1,699.7	3.7	3.7	-90.30	-0.3	-59.8	59.8	53.4	6.42	9.322		
1,800.0	1,800.0	1,799.7	1,799.7	3.8	3.8	-90.30	-0.3	-59.8	59.8	53.4	6.47	9.248		
1,900.0	1,900.0	1,899.7	1,899.7	3.9	3.9	-90.30	-0.3	-59.8	59.8	53.3	6.52	9.172		
2,000.0	2,000.0	1,999.7	1,999.7	3.9	3.9	-90.30	-0.3	-59.8	59.8	53.3	6.58	9.094 CC, ES, SF		
2,100.0	2,100.0	2,097.7	2,097.7	4.0	4.0	-89.86	0.2	-61.4	61.5	54.8	6.64	9.262		
2,200.0	2,200.0	2,195.5	2,195.3	4.1	4.0	-88.67	1.5	-66.2	66.4	59.7	6.70	9.913		
2,300.0	2,300.0	2,292.8	2,292.3	4.2	4.1	-87.04	3.8	-74.2	74.7	67.9	6.77	11.030		
2,400.0	2,400.0	2,389.4	2,388.2	4.3	4.1	-85.29	7.0	-85.2	86.3	79.4	6.85	12.593		
2,500.0	2,500.0	2,485.2	2,482.9	4.4	4.2	-83.63	11.1	-99.2	101.2	94.3	6.94	14.581		
2,600.0	2,600.0	2,580.1	2,576.1	4.5	4.2	-59.51	15.9	-116.1	118.6	111.6	7.03	16.865		
2,700.0	2,699.8	2,677.6	2,671.5	4.6	4.3	-59.76	21.6	-135.5	136.5	129.4	7.13	19.156		
2,800.0	2,799.5	2,776.2	2,768.0	4.7	4.4	-61.05	27.2	-155.2	152.8	145.6	7.21	21.195		
2,900.0	2,898.7	2,874.9	2,864.5	4.8	4.4	-63.12	32.9	-174.9	167.6	160.3	7.28	23.010		
3,000.0	2,997.7	2,973.6	2,961.0	4.9	4.5	-65.58	38.6	-194.6	181.9	174.5	7.36	24.713		
3,100.0	3,096.8	3,072.3	3,057.6	4.9	4.6	-67.68	44.3	-214.3	196.5	189.0	7.45	26.382		
3,200.0	3,195.8	3,170.9	3,154.1	5.0	4.7	-69.49	50.0	-234.0	211.3	203.8	7.54	28.011		
3,300.0	3,294.8	3,269.6	3,250.6	5.1	4.8	-71.06	55.7	-253.7	226.3	218.6	7.65	29.593		
3,400.0	3,393.8	3,368.3	3,347.2	5.2	4.8	-72.43	61.4	-273.4	241.4	233.7	7.76	31.124		
3,500.0	3,492.9	3,467.0	3,443.7	5.3	4.9	-73.64	67.1	-293.2	256.7	248.8	7.87	32.601		
3,600.0	3,591.9	3,565.7	3,540.2	5.4	5.0	-74.72	72.8	-312.9	272.0	264.1	8.00	34.020		
3,700.0	3,690.9	3,664.4	3,636.8	5.5	5.1	-75.68	78.5	-332.6	287.5	279.4	8.13	35.382		
3,800.0	3,789.9	3,763.1	3,733.3	5.6	5.2	-76.54	84.2	-352.3	303.0	294.7	8.26	36.683		
3,900.0	3,889.0	3,861.8	3,829.8	5.8	5.3	-77.32	89.9	-372.0	318.6	310.2	8.40	37.925		
4,000.0	3,988.0	3,960.5	3,926.4	5.9	5.4	-78.03	95.6	-391.7	334.2	325.7	8.55	39.108		
4,100.0	4,087.0	4,059.2	4,022.9	6.0	5.5	-78.67	101.3	-411.4	349.9	341.2	8.70	40.231		
4,200.0	4,186.0	4,157.9	4,119.4	6.1	5.6	-79.26	107.0	-431.1	365.6	356.7	8.85	41.295		
4,300.0	4,285.1	4,256.6	4,216.0	6.2	5.7	-79.80	112.7	-450.9	381.3	372.3	9.01	42.303		
4,400.0	4,384.1	4,355.2	4,312.5	6.3	5.8	-80.30	118.4	-470.6	397.1	387.9	9.18	43.254		
4,500.0	4,483.1	4,453.9	4,409.0	6.4	6.0	-80.76	124.1	-490.3	412.9	403.6	9.35	44.151		
4,600.0	4,582.2	4,552.6	4,505.6	6.5	6.1	-81.18	129.8	-510.0	428.7	419.2	9.53	44.994		
4,700.0	4,681.2	4,651.3	4,602.1	6.6	6.2	-81.58	135.5	-529.7	444.6	434.9	9.71	45.787		
4,800.0	4,780.2	4,750.0	4,698.7	6.7	6.3	-81.94	141.2	-549.4	460.5	450.6	9.90	46.530		
4,900.0	4,879.2	4,848.7	4,795.2	6.9	6.4	-82.29	146.9	-569.1	476.3	466.3	10.09	47.226		
5,000.0	4,978.3	4,947.4	4,891.7	7.0	6.6	-82.61	152.6	-588.8	492.2	482.0	10.28	47.876		
5,100.0	5,077.3	5,046.1	4,988.3	7.1	6.7	-82.91	158.3	-608.6	508.2	497.7	10.48	48.482		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #12H
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 #12H	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,200.0	5,176.3	5,144.8	5,084.8	7.2	6.8	-83.19	164.0	-628.3	524.1	513.4	10.69	49.047		
5,300.0	5,275.3	5,243.5	5,181.3	7.3	6.9	-83.46	169.7	-648.0	540.0	529.1	10.89	49.572		
5,400.0	5,374.4	5,342.2	5,277.9	7.4	7.1	-83.71	175.4	-667.7	556.0	544.9	11.11	50.059		
5,500.0	5,473.4	5,440.9	5,374.4	7.5	7.2	-83.95	181.1	-687.4	571.9	560.6	11.32	50.509		
5,600.0	5,572.4	5,539.5	5,470.9	7.7	7.4	-84.17	186.8	-707.1	587.9	576.4	11.54	50.926		
5,700.0	5,671.5	5,638.2	5,567.5	7.8	7.5	-84.38	192.5	-726.8	603.9	592.1	11.77	51.310		
5,800.0	5,770.5	5,736.9	5,664.0	7.9	7.6	-84.58	198.2	-746.5	619.9	607.9	12.00	51.663		
5,900.0	5,869.5	5,835.6	5,760.5	8.0	7.8	-84.77	203.9	-766.3	635.8	623.6	12.23	51.987		
6,000.0	5,968.5	5,934.3	5,857.1	8.1	7.9	-84.96	209.6	-786.0	651.8	639.4	12.47	52.283		
6,100.0	6,067.6	6,033.0	5,953.6	8.3	8.1	-85.13	215.3	-805.7	667.9	655.1	12.71	52.553		
6,130.7	6,097.9	6,063.3	5,983.2	8.3	8.1	-85.18	217.0	-811.7	672.8	660.0	12.78	52.631		
6,200.0	6,166.6	6,131.7	6,050.1	8.4	8.2	-85.37	220.9	-825.4	683.9	670.9	12.95	52.810		
6,300.0	6,265.9	6,230.4	6,146.7	8.5	8.4	-85.52	226.6	-845.1	700.1	686.9	13.19	53.091		
6,400.0	6,365.4	6,329.0	6,243.2	8.6	8.5	-85.53	232.3	-864.8	716.4	703.0	13.42	53.400		
6,500.0	6,465.1	6,427.6	6,339.6	8.7	8.7	-85.41	238.0	-884.5	732.8	719.2	13.64	53.739		
6,600.0	6,564.8	6,526.1	6,435.9	8.9	8.9	-85.17	243.7	-904.2	749.5	735.6	13.85	54.112		
6,700.0	6,664.7	6,624.4	6,532.1	9.0	9.0	-84.82	249.4	-923.8	766.3	752.2	14.05	54.548		
6,800.0	6,764.7	6,722.6	6,628.1	9.1	9.2	-84.37	255.1	-943.4	783.3	769.1	14.23	55.038		
6,900.0	6,864.7	6,820.6	6,724.0	9.2	9.4	-83.82	260.7	-963.0	800.7	786.2	14.42	55.539		
6,930.7	6,895.3	6,850.6	6,753.3	9.2	9.4	-106.71	262.4	-969.0	806.0	791.6	14.47	55.694		
7,000.0	6,964.7	6,918.4	6,819.6	9.3	9.5	-106.17	266.4	-982.5	818.3	803.7	14.60	56.042		
7,100.0	7,064.7	7,016.2	6,915.3	9.5	9.7	-105.41	272.0	-1,002.1	836.0	821.2	14.79	56.536		
7,200.0	7,164.7	7,114.0	7,011.0	9.6	9.9	-104.68	277.7	-1,021.6	853.9	838.9	14.98	57.022		
7,300.0	7,264.7	7,211.8	7,106.7	9.7	10.1	-103.99	283.3	-1,041.1	871.9	856.8	15.16	57.500		
7,400.0	7,364.7	7,309.6	7,202.4	9.8	10.3	-103.32	288.9	-1,060.7	890.1	874.7	15.35	57.969		
7,500.0	7,464.7	7,407.5	7,298.0	9.9	10.5	-102.68	294.6	-1,080.2	908.3	892.8	15.55	58.429		
7,600.0	7,564.7	7,505.3	7,393.7	10.1	10.6	-102.06	300.2	-1,099.7	926.7	911.0	15.74	58.881		
7,700.0	7,664.7	7,603.1	7,489.4	10.2	10.8	-101.47	305.9	-1,119.3	945.2	929.2	15.93	59.324		
7,800.0	7,764.7	7,700.9	7,585.1	10.3	11.0	-100.90	311.5	-1,138.8	963.7	947.6	16.13	59.758		
7,900.0	7,864.7	7,798.7	7,680.7	10.4	11.2	-100.35	317.2	-1,158.4	982.4	966.1	16.32	60.184		

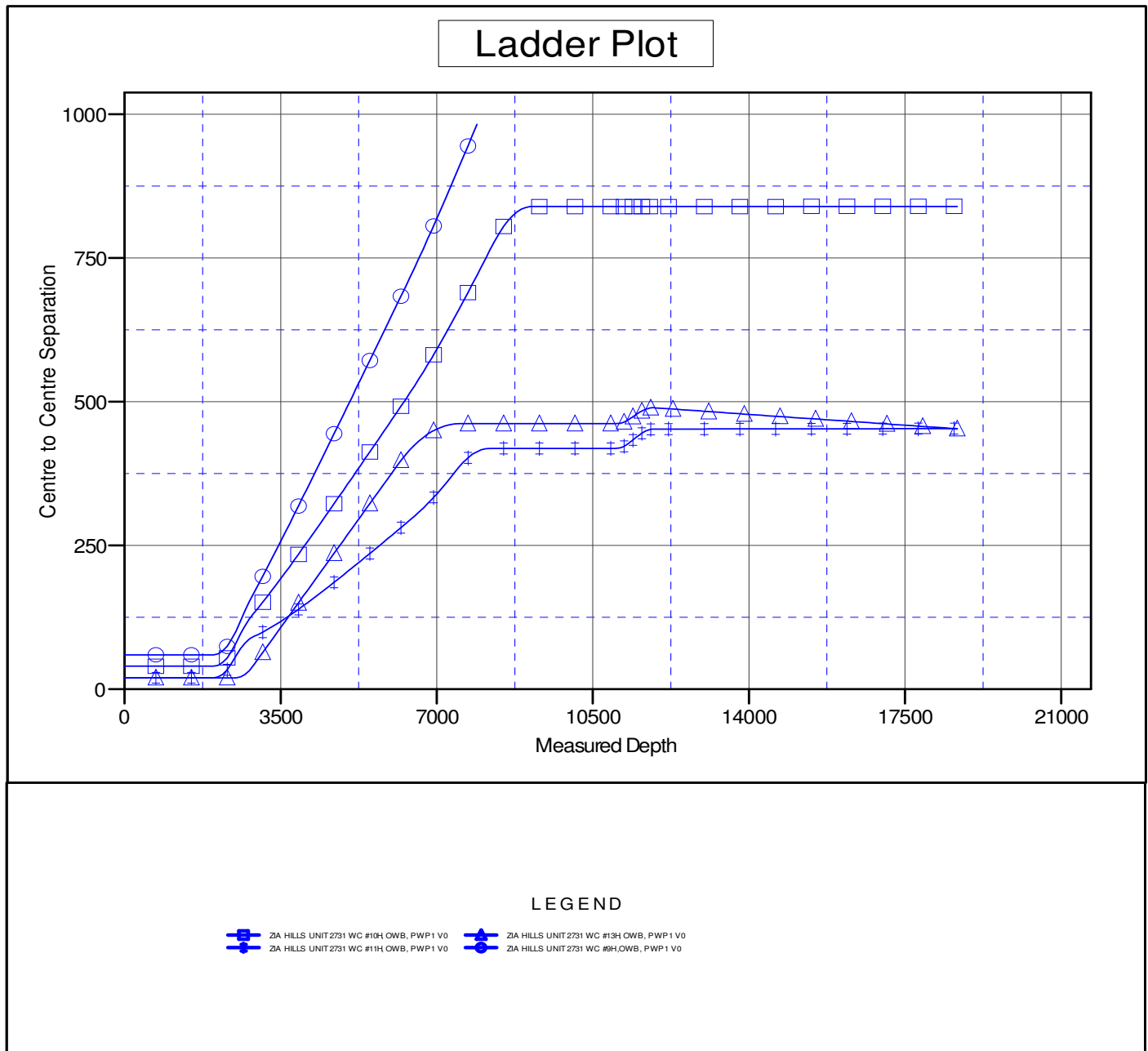
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #12H
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 #12H	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 #12H
 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°



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

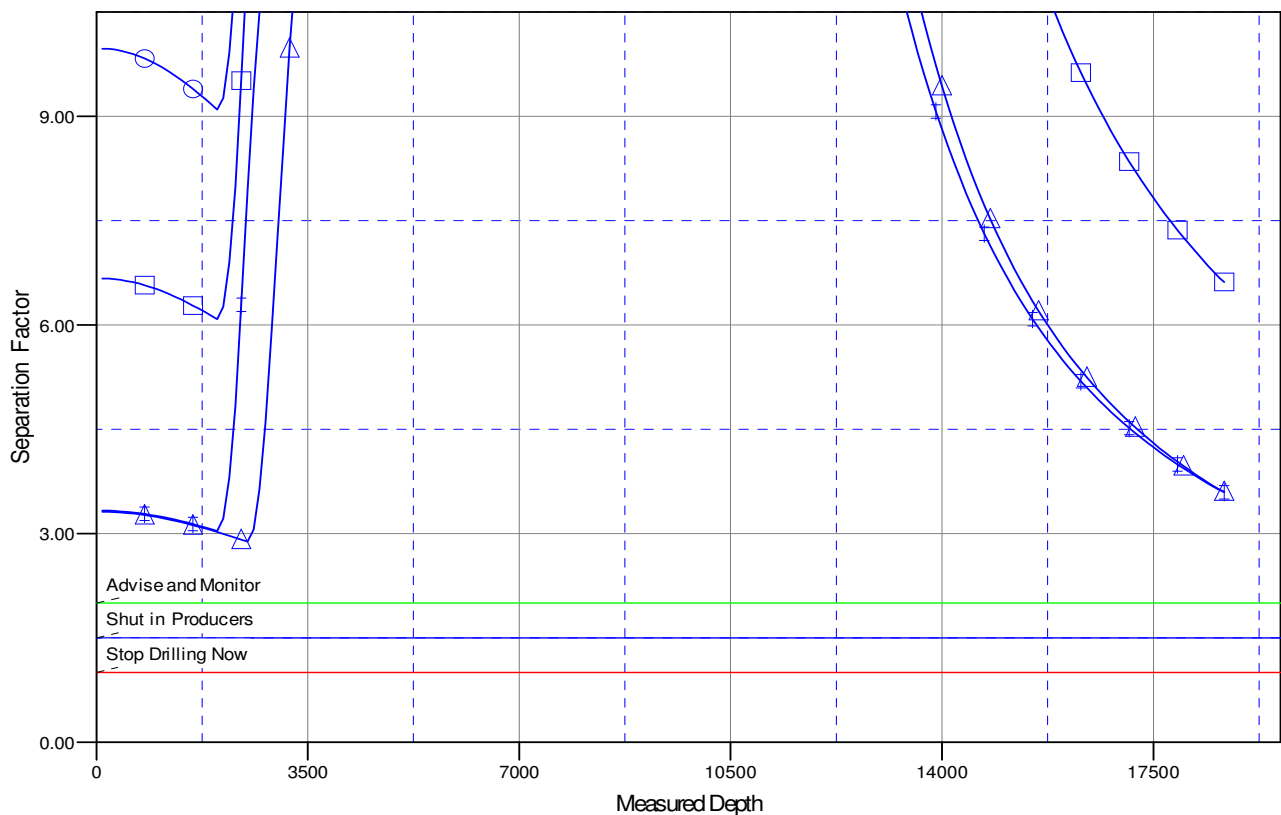
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #12H
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 #12H	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 #12H
 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°

Separation Factor Plot



LEGEND

ZIA HILLS UNIT 2731 WC #10H OWB, PWP1 V0
 ZIA HILLS UNIT 2731 WC #11H OWB, PWP1 V0
 ZIA HILLS UNIT 2731 WC #9H OWB, PWP1 V0

DELAWARE BASIN EAST

LEA PROSPECT (NM-E)

ZIA HILLS UNIT 2731 PROJECT

ZIA HILLS UNIT 2731 WC #12H

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 #12H
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 #12H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

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

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

Well	ZIA HILLS UNIT 2731 WC #12H		
Well Position	+N/-S	0.0 usft	Northing: 371,060.04 usft
	+E/-W	0.0 usft	Easting: 678,108.02 usft
Position Uncertainty	3.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 1' 7.882 N
		Longitude:	103° 45' 31.205 W
		Ground Level:	3,145.9 usft

Wellbore	OWB		
Magnetics	Model Name	Sample Date	Declination (°)
	BGGM2021	2/10/2022	6.49
			Dip Angle (°)
			59.58
			Field Strength (nT)
			47,445.58987045

Design	PWP1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
			Direction (°)
			181.43

Survey Tool Program	Date	3/28/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	11,124.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
11,124.0	18,671.6	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 #12H
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 #12H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
2,600.0	2.00	336.93	2,600.0	1.6	-0.7	-1.6	2.00	2.00	0.00
2,700.0	4.00	336.93	2,699.8	6.4	-2.7	-6.4	2.00	2.00	0.00
2,800.0	6.00	336.93	2,799.5	14.4	-6.2	-14.3	2.00	2.00	0.00
2,900.0	8.00	336.93	2,898.7	25.6	-10.9	-25.4	2.00	2.00	0.00
Start 3230.7 hold at 2900.0 MD									
3,000.0	8.00	336.93	2,997.7	38.5	-16.4	-38.0	0.00	0.00	0.00
3,100.0	8.00	336.93	3,096.8	51.3	-21.8	-50.7	0.00	0.00	0.00
3,200.0	8.00	336.93	3,195.8	64.1	-27.3	-63.4	0.00	0.00	0.00
3,300.0	8.00	336.93	3,294.8	76.9	-32.7	-76.0	0.00	0.00	0.00
3,400.0	8.00	336.93	3,393.8	89.7	-38.2	-88.7	0.00	0.00	0.00
3,500.0	8.00	336.93	3,492.9	102.5	-43.7	-101.4	0.00	0.00	0.00
3,600.0	8.00	336.93	3,591.9	115.3	-49.1	-114.0	0.00	0.00	0.00
3,700.0	8.00	336.93	3,690.9	128.1	-54.6	-126.7	0.00	0.00	0.00
3,800.0	8.00	336.93	3,789.9	140.9	-60.0	-139.3	0.00	0.00	0.00
3,900.0	8.00	336.93	3,889.0	153.7	-65.5	-152.0	0.00	0.00	0.00
4,000.0	8.00	336.93	3,988.0	166.5	-70.9	-164.7	0.00	0.00	0.00
4,100.0	8.00	336.93	4,087.0	179.3	-76.4	-177.3	0.00	0.00	0.00
4,200.0	8.00	336.93	4,186.0	192.1	-81.8	-190.0	0.00	0.00	0.00
4,300.0	8.00	336.93	4,285.1	204.9	-87.3	-202.7	0.00	0.00	0.00
4,400.0	8.00	336.93	4,384.1	217.7	-92.7	-215.3	0.00	0.00	0.00
4,500.0	8.00	336.93	4,483.1	230.5	-98.2	-228.0	0.00	0.00	0.00
4,600.0	8.00	336.93	4,582.2	243.3	-103.7	-240.7	0.00	0.00	0.00
4,700.0	8.00	336.93	4,681.2	256.1	-109.1	-253.3	0.00	0.00	0.00
4,800.0	8.00	336.93	4,780.2	268.9	-114.6	-266.0	0.00	0.00	0.00
4,900.0	8.00	336.93	4,879.2	281.7	-120.0	-278.7	0.00	0.00	0.00
5,000.0	8.00	336.93	4,978.3	294.5	-125.5	-291.3	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #12H
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 #12H	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	336.93	5,077.3	307.3	-130.9	-304.0	0.00	0.00	0.00	
5,200.0	8.00	336.93	5,176.3	320.1	-136.4	-316.6	0.00	0.00	0.00	
5,300.0	8.00	336.93	5,275.3	332.9	-141.8	-329.3	0.00	0.00	0.00	
5,400.0	8.00	336.93	5,374.4	345.7	-147.3	-342.0	0.00	0.00	0.00	
5,500.0	8.00	336.93	5,473.4	358.6	-152.7	-354.6	0.00	0.00	0.00	
5,600.0	8.00	336.93	5,572.4	371.4	-158.2	-367.3	0.00	0.00	0.00	
5,700.0	8.00	336.93	5,671.5	384.2	-163.7	-380.0	0.00	0.00	0.00	
5,800.0	8.00	336.93	5,770.5	397.0	-169.1	-392.6	0.00	0.00	0.00	
5,900.0	8.00	336.93	5,869.5	409.8	-174.6	-405.3	0.00	0.00	0.00	
6,000.0	8.00	336.93	5,968.5	422.6	-180.0	-418.0	0.00	0.00	0.00	
6,100.0	8.00	336.93	6,067.6	435.4	-185.5	-430.6	0.00	0.00	0.00	
6,130.7	8.00	336.93	6,097.9	439.3	-187.1	-434.5	0.00	0.00	0.00	
Start Drop -1.00										
6,200.0	7.31	336.93	6,166.6	447.8	-190.8	-442.9	1.00	-1.00	0.00	
6,300.0	6.31	336.93	6,265.9	458.7	-195.4	-453.7	1.00	-1.00	0.00	
6,400.0	5.31	336.93	6,365.4	468.0	-199.4	-462.9	1.00	-1.00	0.00	
6,500.0	4.31	336.93	6,465.1	475.7	-202.7	-470.5	1.00	-1.00	0.00	
6,600.0	3.31	336.93	6,564.8	481.8	-205.3	-476.6	1.00	-1.00	0.00	
6,700.0	2.31	336.93	6,664.7	486.3	-207.2	-481.0	1.00	-1.00	0.00	
6,800.0	1.31	336.93	6,764.7	489.2	-208.4	-483.9	1.00	-1.00	0.00	
6,900.0	0.31	336.93	6,864.7	490.5	-209.0	-485.2	1.00	-1.00	0.00	
6,930.7	0.00	0.00	6,895.3	490.6	-209.0	-485.3	1.00	-1.00	75.22	
Start 4193.2 hold at 6930.7 MD										
7,000.0	0.00	0.00	6,964.7	490.6	-209.0	-485.3	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,064.7	490.6	-209.0	-485.3	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,164.7	490.6	-209.0	-485.3	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,264.7	490.6	-209.0	-485.3	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,364.7	490.6	-209.0	-485.3	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,464.7	490.6	-209.0	-485.3	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,564.7	490.6	-209.0	-485.3	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,664.7	490.6	-209.0	-485.3	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,764.7	490.6	-209.0	-485.3	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,864.7	490.6	-209.0	-485.3	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,964.7	490.6	-209.0	-485.3	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,064.7	490.6	-209.0	-485.3	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,164.7	490.6	-209.0	-485.3	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,264.7	490.6	-209.0	-485.3	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,364.7	490.6	-209.0	-485.3	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,464.7	490.6	-209.0	-485.3	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,564.7	490.6	-209.0	-485.3	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,664.7	490.6	-209.0	-485.3	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,764.7	490.6	-209.0	-485.3	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,864.7	490.6	-209.0	-485.3	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,964.7	490.6	-209.0	-485.3	0.00	0.00	0.00	

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #12H
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 #12H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,100.0	0.00	0.00	9,064.7	490.6	-209.0	-485.3	0.00	0.00	0.00
9,200.0	0.00	0.00	9,164.7	490.6	-209.0	-485.3	0.00	0.00	0.00
9,300.0	0.00	0.00	9,264.7	490.6	-209.0	-485.3	0.00	0.00	0.00
9,400.0	0.00	0.00	9,364.7	490.6	-209.0	-485.3	0.00	0.00	0.00
9,500.0	0.00	0.00	9,464.7	490.6	-209.0	-485.3	0.00	0.00	0.00
9,600.0	0.00	0.00	9,564.7	490.6	-209.0	-485.3	0.00	0.00	0.00
9,700.0	0.00	0.00	9,664.7	490.6	-209.0	-485.3	0.00	0.00	0.00
9,800.0	0.00	0.00	9,764.7	490.6	-209.0	-485.3	0.00	0.00	0.00
9,900.0	0.00	0.00	9,864.7	490.6	-209.0	-485.3	0.00	0.00	0.00
10,000.0	0.00	0.00	9,964.7	490.6	-209.0	-485.3	0.00	0.00	0.00
10,100.0	0.00	0.00	10,064.7	490.6	-209.0	-485.3	0.00	0.00	0.00
10,200.0	0.00	0.00	10,164.7	490.6	-209.0	-485.3	0.00	0.00	0.00
10,300.0	0.00	0.00	10,264.7	490.6	-209.0	-485.3	0.00	0.00	0.00
10,400.0	0.00	0.00	10,364.7	490.6	-209.0	-485.3	0.00	0.00	0.00
10,500.0	0.00	0.00	10,464.7	490.6	-209.0	-485.3	0.00	0.00	0.00
10,600.0	0.00	0.00	10,564.7	490.6	-209.0	-485.3	0.00	0.00	0.00
10,700.0	0.00	0.00	10,664.7	490.6	-209.0	-485.3	0.00	0.00	0.00
10,800.0	0.00	0.00	10,764.7	490.6	-209.0	-485.3	0.00	0.00	0.00
10,900.0	0.00	0.00	10,864.7	490.6	-209.0	-485.3	0.00	0.00	0.00
11,000.0	0.00	0.00	10,964.7	490.6	-209.0	-485.3	0.00	0.00	0.00
11,100.0	0.00	0.00	11,064.7	490.6	-209.0	-485.3	0.00	0.00	0.00
11,123.8	0.00	0.00	11,088.5	490.6	-209.0	-485.3	0.00	0.00	0.00
Start DLS 12.00 TFO 179.68									
11,125.0	0.14	179.68	11,089.7	490.6	-209.0	-485.2	12.00	12.00	0.00
11,150.0	3.14	179.68	11,114.7	489.9	-209.0	-484.5	12.00	12.00	0.00
11,175.0	6.14	179.68	11,139.6	487.9	-209.0	-482.5	12.00	12.00	0.00
11,200.0	9.14	179.68	11,164.3	484.5	-209.0	-479.2	12.00	12.00	0.00
11,225.0	12.14	179.68	11,188.9	479.9	-208.9	-474.6	12.00	12.00	0.00
11,250.0	15.14	179.68	11,213.2	474.0	-208.9	-468.7	12.00	12.00	0.00
11,275.0	18.14	179.68	11,237.2	466.9	-208.9	-461.5	12.00	12.00	0.00
11,300.0	21.14	179.68	11,260.7	458.5	-208.8	-453.1	12.00	12.00	0.00
11,325.0	24.14	179.68	11,283.8	448.8	-208.8	-443.5	12.00	12.00	0.00
11,350.0	27.14	179.68	11,306.3	438.0	-208.7	-432.7	12.00	12.00	0.00
11,375.0	30.14	179.68	11,328.2	426.0	-208.6	-420.7	12.00	12.00	0.00
11,400.0	33.14	179.68	11,349.5	412.9	-208.6	-407.6	12.00	12.00	0.00
11,425.0	36.14	179.68	11,370.1	398.7	-208.5	-393.4	12.00	12.00	0.00
11,450.0	39.14	179.68	11,389.9	383.5	-208.4	-378.2	12.00	12.00	0.00
11,475.0	42.14	179.68	11,408.9	367.2	-208.3	-361.9	12.00	12.00	0.00
11,500.0	45.14	179.68	11,426.9	349.9	-208.2	-344.6	12.00	12.00	0.00
11,525.0	48.14	179.68	11,444.1	331.8	-208.1	-326.5	12.00	12.00	0.00
11,550.0	51.14	179.68	11,460.3	312.7	-208.0	-307.4	12.00	12.00	0.00
11,575.0	54.14	179.68	11,475.5	292.8	-207.9	-287.6	12.00	12.00	0.00
11,600.0	57.14	179.68	11,489.6	272.2	-207.8	-267.0	12.00	12.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #12H
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 #12H	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)	
11,625.0	60.14	179.68	11,502.6	250.9	-207.7	-245.6	12.00	12.00	0.00	
11,650.0	63.14	179.68	11,514.5	228.9	-207.6	-223.6	12.00	12.00	0.00	
11,675.0	66.14	179.68	11,525.2	206.3	-207.4	-201.1	12.00	12.00	0.00	
11,700.0	69.14	179.68	11,534.7	183.2	-207.3	-177.9	12.00	12.00	0.00	
11,725.0	72.14	179.68	11,543.0	159.6	-207.2	-154.4	12.00	12.00	0.00	
11,750.0	75.14	179.68	11,550.0	135.6	-207.0	-130.4	12.00	12.00	0.00	
11,775.0	78.14	179.68	11,555.8	111.3	-206.9	-106.1	12.00	12.00	0.00	
11,800.0	81.14	179.68	11,560.3	86.7	-206.8	-81.5	12.00	12.00	0.00	
11,825.0	84.14	179.68	11,563.5	61.9	-206.6	-56.7	12.00	12.00	0.00	
11,850.0	87.14	179.68	11,565.4	37.0	-206.5	-31.8	12.00	12.00	0.00	
11,873.8	90.00	179.68	11,566.0	13.1	-206.4	-8.0	12.00	12.00	0.00	
Start 6798.7 hold at 11873.8 MD										
11,900.0	90.00	179.68	11,566.0	-13.0	-206.2	18.1	0.00	0.00	0.00	
12,000.0	90.00	179.68	11,566.0	-113.0	-205.7	118.1	0.00	0.00	0.00	
12,100.0	90.00	179.68	11,566.0	-213.0	-205.1	218.1	0.00	0.00	0.00	
12,200.0	90.00	179.68	11,566.0	-313.0	-204.6	318.0	0.00	0.00	0.00	
12,300.0	90.00	179.68	11,566.0	-413.0	-204.0	418.0	0.00	0.00	0.00	
12,400.0	90.00	179.68	11,566.0	-513.0	-203.5	517.9	0.00	0.00	0.00	
12,500.0	90.00	179.68	11,566.0	-613.0	-202.9	617.9	0.00	0.00	0.00	
12,600.0	90.00	179.68	11,566.0	-713.0	-202.4	717.8	0.00	0.00	0.00	
12,700.0	90.00	179.68	11,566.0	-813.0	-201.8	817.8	0.00	0.00	0.00	
12,800.0	90.00	179.68	11,566.0	-913.0	-201.2	917.7	0.00	0.00	0.00	
12,900.0	90.00	179.68	11,566.0	-1,013.0	-200.7	1,017.7	0.00	0.00	0.00	
13,000.0	90.00	179.68	11,566.0	-1,113.0	-200.1	1,117.6	0.00	0.00	0.00	
13,100.0	90.00	179.68	11,566.0	-1,213.0	-199.6	1,217.6	0.00	0.00	0.00	
13,200.0	90.00	179.68	11,566.0	-1,313.0	-199.0	1,317.5	0.00	0.00	0.00	
13,300.0	90.00	179.68	11,566.0	-1,413.0	-198.5	1,417.5	0.00	0.00	0.00	
13,400.0	90.00	179.68	11,566.0	-1,513.0	-197.9	1,517.5	0.00	0.00	0.00	
13,500.0	90.00	179.68	11,566.0	-1,613.0	-197.4	1,617.4	0.00	0.00	0.00	
13,600.0	90.00	179.68	11,566.0	-1,713.0	-196.8	1,717.4	0.00	0.00	0.00	
13,700.0	90.00	179.68	11,566.0	-1,813.0	-196.3	1,817.3	0.00	0.00	0.00	
13,800.0	90.00	179.68	11,566.0	-1,913.0	-195.7	1,917.3	0.00	0.00	0.00	
13,900.0	90.00	179.68	11,566.0	-2,013.0	-195.2	2,017.2	0.00	0.00	0.00	
14,000.0	90.00	179.68	11,566.0	-2,113.0	-194.6	2,117.2	0.00	0.00	0.00	
14,100.0	90.00	179.68	11,566.0	-2,213.0	-194.1	2,217.1	0.00	0.00	0.00	
14,200.0	90.00	179.68	11,566.0	-2,313.0	-193.5	2,317.1	0.00	0.00	0.00	
14,300.0	90.00	179.68	11,566.0	-2,413.0	-193.0	2,417.0	0.00	0.00	0.00	
14,400.0	90.00	179.68	11,566.0	-2,513.0	-192.4	2,517.0	0.00	0.00	0.00	
14,500.0	90.00	179.68	11,566.0	-2,613.0	-191.9	2,616.9	0.00	0.00	0.00	
14,600.0	90.00	179.68	11,566.0	-2,713.0	-191.3	2,716.9	0.00	0.00	0.00	
14,700.0	90.00	179.68	11,566.0	-2,813.0	-190.7	2,816.9	0.00	0.00	0.00	
14,800.0	90.00	179.68	11,566.0	-2,913.0	-190.2	2,916.8	0.00	0.00	0.00	
14,900.0	90.00	179.68	11,566.0	-3,013.0	-189.6	3,016.8	0.00	0.00	0.00	
15,000.0	90.00	179.68	11,566.0	-3,113.0	-189.1	3,116.7	0.00	0.00	0.00	

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #12H
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 #12H	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)
15,100.0	90.00	179.68	11,566.0	-3,213.0	-188.5	3,216.7	0.00	0.00	0.00
15,200.0	90.00	179.68	11,566.0	-3,313.0	-188.0	3,316.6	0.00	0.00	0.00
15,300.0	90.00	179.68	11,566.0	-3,413.0	-187.4	3,416.6	0.00	0.00	0.00
15,400.0	90.00	179.68	11,566.0	-3,513.0	-186.9	3,516.5	0.00	0.00	0.00
15,500.0	90.00	179.68	11,566.0	-3,613.0	-186.3	3,616.5	0.00	0.00	0.00
15,600.0	90.00	179.68	11,566.0	-3,713.0	-185.8	3,716.4	0.00	0.00	0.00
15,700.0	90.00	179.68	11,566.0	-3,813.0	-185.2	3,816.4	0.00	0.00	0.00
15,800.0	90.00	179.68	11,566.0	-3,913.0	-184.7	3,916.3	0.00	0.00	0.00
15,900.0	90.00	179.68	11,566.0	-4,013.0	-184.1	4,016.3	0.00	0.00	0.00
16,000.0	90.00	179.68	11,566.0	-4,113.0	-183.6	4,116.3	0.00	0.00	0.00
16,100.0	90.00	179.68	11,566.0	-4,213.0	-183.0	4,216.2	0.00	0.00	0.00
16,200.0	90.00	179.68	11,566.0	-4,313.0	-182.5	4,316.2	0.00	0.00	0.00
16,300.0	90.00	179.68	11,566.0	-4,413.0	-181.9	4,416.1	0.00	0.00	0.00
16,400.0	90.00	179.68	11,566.0	-4,513.0	-181.4	4,516.1	0.00	0.00	0.00
16,500.0	90.00	179.68	11,566.0	-4,613.0	-180.8	4,616.0	0.00	0.00	0.00
16,600.0	90.00	179.68	11,566.0	-4,712.9	-180.3	4,716.0	0.00	0.00	0.00
16,700.0	90.00	179.68	11,566.0	-4,812.9	-179.7	4,815.9	0.00	0.00	0.00
16,800.0	90.00	179.68	11,566.0	-4,912.9	-179.1	4,915.9	0.00	0.00	0.00
16,900.0	90.00	179.68	11,566.0	-5,012.9	-178.6	5,015.8	0.00	0.00	0.00
17,000.0	90.00	179.68	11,566.0	-5,112.9	-178.0	5,115.8	0.00	0.00	0.00
17,100.0	90.00	179.68	11,566.0	-5,212.9	-177.5	5,215.7	0.00	0.00	0.00
17,200.0	90.00	179.68	11,566.0	-5,312.9	-176.9	5,315.7	0.00	0.00	0.00
17,300.0	90.00	179.68	11,566.0	-5,412.9	-176.4	5,415.7	0.00	0.00	0.00
17,400.0	90.00	179.68	11,566.0	-5,512.9	-175.8	5,515.6	0.00	0.00	0.00
17,500.0	90.00	179.68	11,566.0	-5,612.9	-175.3	5,615.6	0.00	0.00	0.00
17,600.0	90.00	179.68	11,566.0	-5,712.9	-174.7	5,715.5	0.00	0.00	0.00
17,700.0	90.00	179.68	11,566.0	-5,812.9	-174.2	5,815.5	0.00	0.00	0.00
17,800.0	90.00	179.68	11,566.0	-5,912.9	-173.6	5,915.4	0.00	0.00	0.00
17,900.0	90.00	179.68	11,566.0	-6,012.9	-173.1	6,015.4	0.00	0.00	0.00
18,000.0	90.00	179.68	11,566.0	-6,112.9	-172.5	6,115.3	0.00	0.00	0.00
18,100.0	90.00	179.68	11,566.0	-6,212.9	-172.0	6,215.3	0.00	0.00	0.00
18,200.0	90.00	179.68	11,566.0	-6,312.9	-171.4	6,315.2	0.00	0.00	0.00
18,300.0	90.00	179.68	11,566.0	-6,412.9	-170.9	6,415.2	0.00	0.00	0.00
18,400.0	90.00	179.68	11,566.0	-6,512.9	-170.3	6,515.1	0.00	0.00	0.00
18,500.0	90.00	179.68	11,566.0	-6,612.9	-169.8	6,615.1	0.00	0.00	0.00
18,600.0	90.00	179.68	11,566.0	-6,712.9	-169.2	6,715.1	0.00	0.00	0.00
18,672.6	90.00	179.68	11,566.0	-6,785.5	-168.8	6,787.6	0.00	0.00	0.00

TD at 18672.6

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2731 WC #12H
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 #12H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Design Targets

Target Name

- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
LTP(ZIA HILLS UNIT : - plan misses target center by 22.6usft at 18600.0usft MD (11566.0 TVD, -6712.9 N, -169.2 E) - Point	0.00	0.00	11,566.0	-6,735.5	-169.1	364,324.55	677,938.96	32° 0' 1.235 N	103° 45' 33.584 W
PBHL(ZIA HILLS UNI - plan hits target center - Rectangle (sides W100.0 H7,400.0 D20.0)	0.00	359.68	11,566.0	-6,785.5	-168.8	364,274.56	677,939.22	32° 0' 0.741 N	103° 45' 33.584 W
FTP(ZIA HILLS UNIT - plan misses target center by 256.4usft at 11461.9usft MD (11399.0 TVD, 375.8 N, -208.4 E) - Circle (radius 50.0)	0.00	0.00	11,566.0	570.4	-208.0	371,630.40	677,900.05	32° 1' 13.538 N	103° 45' 33.585 W

Plan Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
2500	2500	0	0	Start Build 2.00
2900	2899	26	-11	Start 3230.7 hold at 2900.0 MD
6131	6098	439	-187	Start Drop -1.00
6931	6895	491	-209	Start 4193.2 hold at 6930.7 MD
11,124	11,089	491	-209	Start DLS 12.00 TFO 179.68
11,874	11,566	13	-206	Start 6798.7 hold at 11873.8 MD
18,673	11,566	-6785	-169	TD at 18672.6

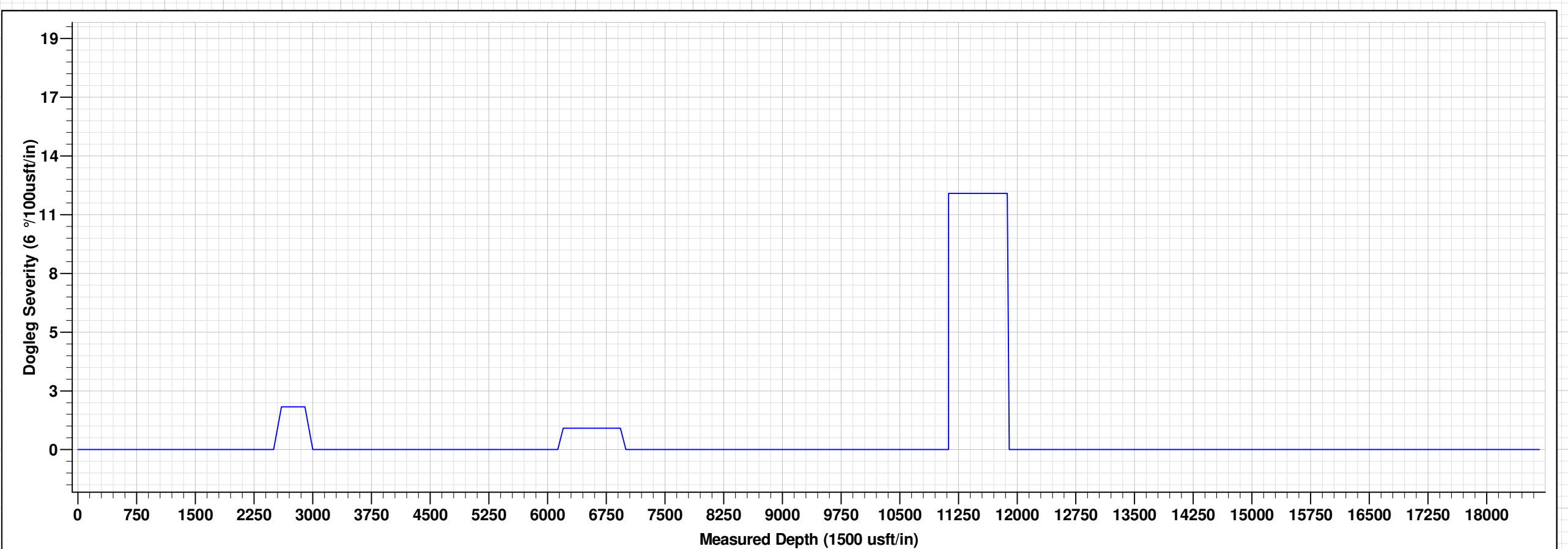
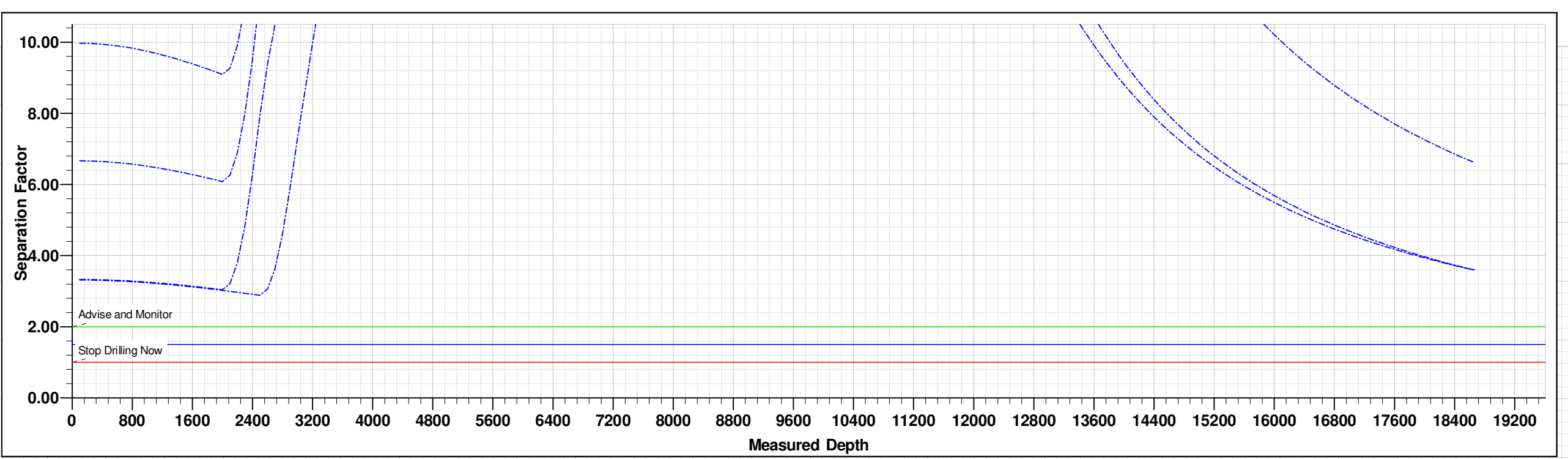
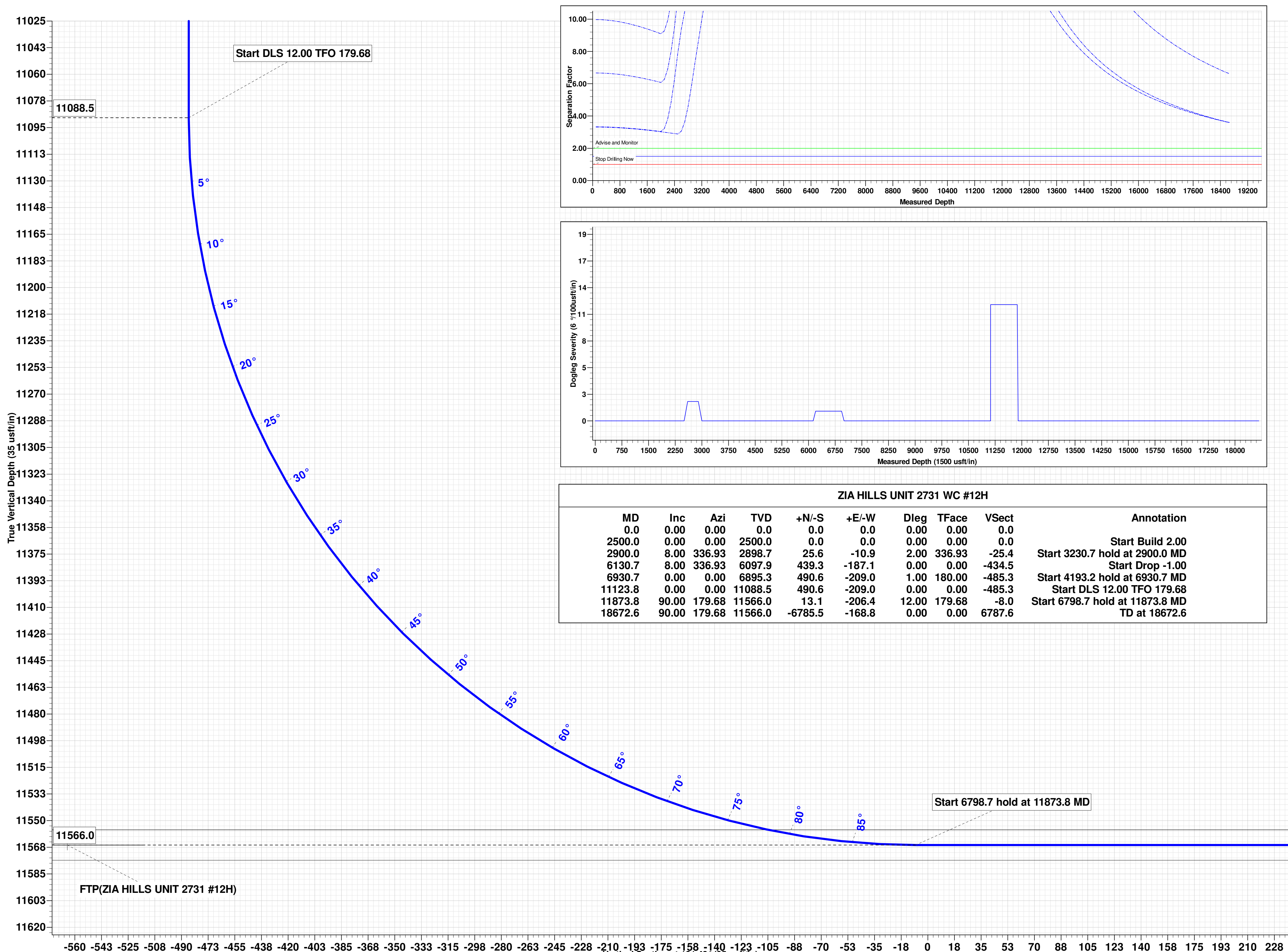
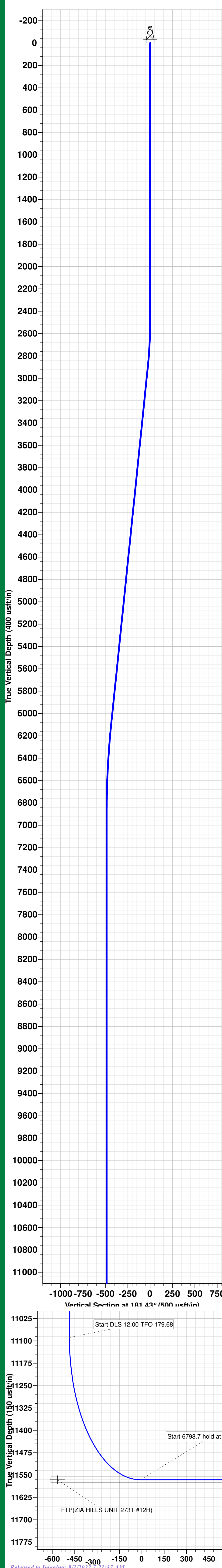
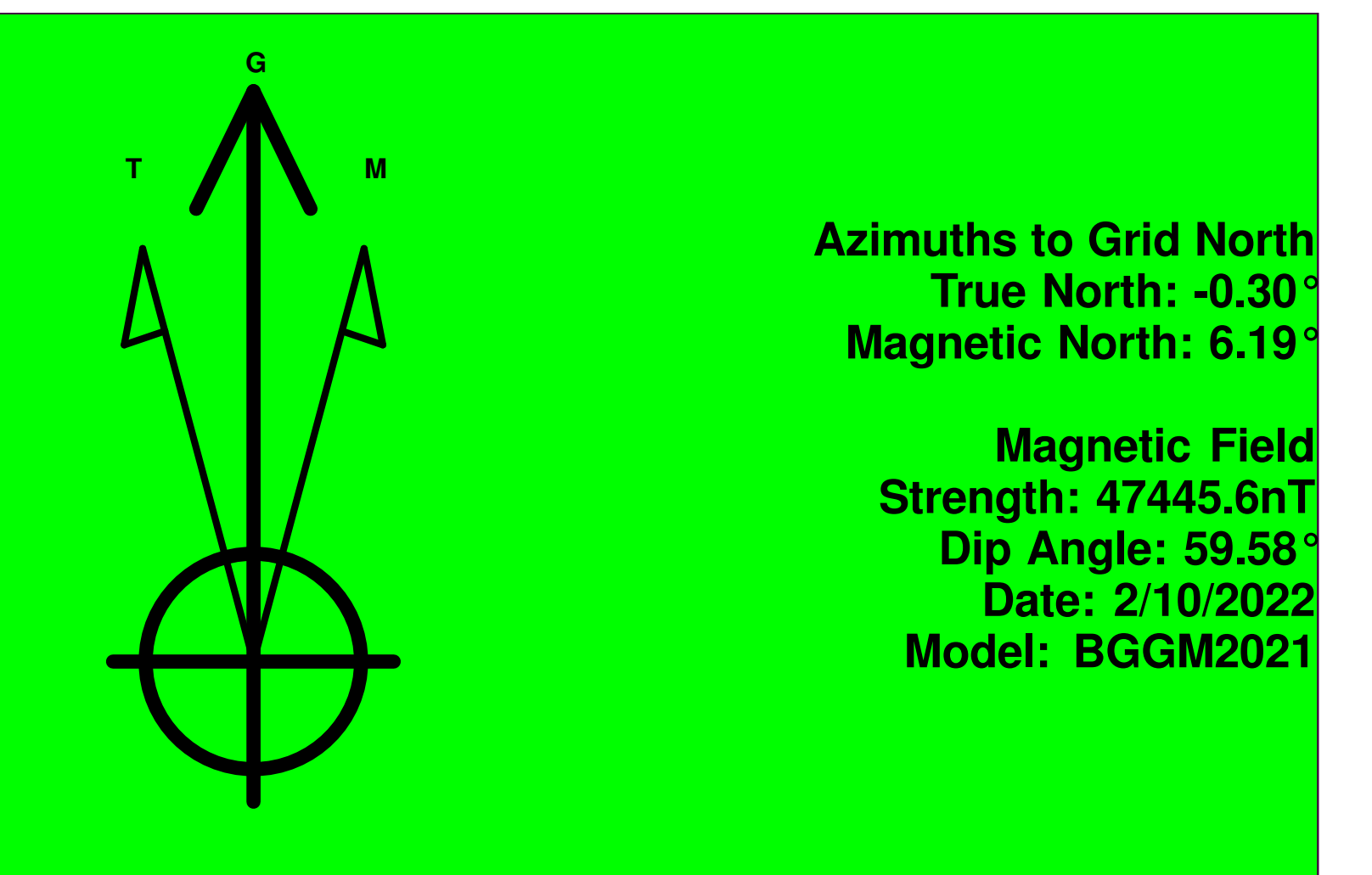
Checked By: _____ Approved By: _____ Date: _____



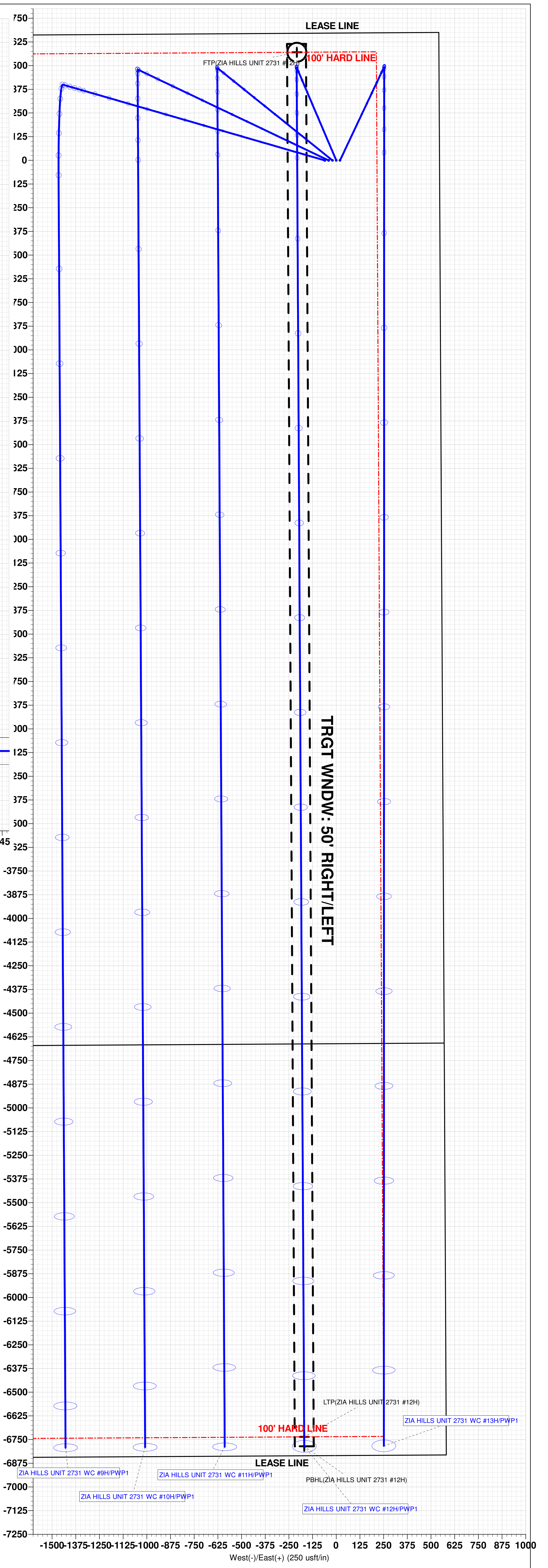
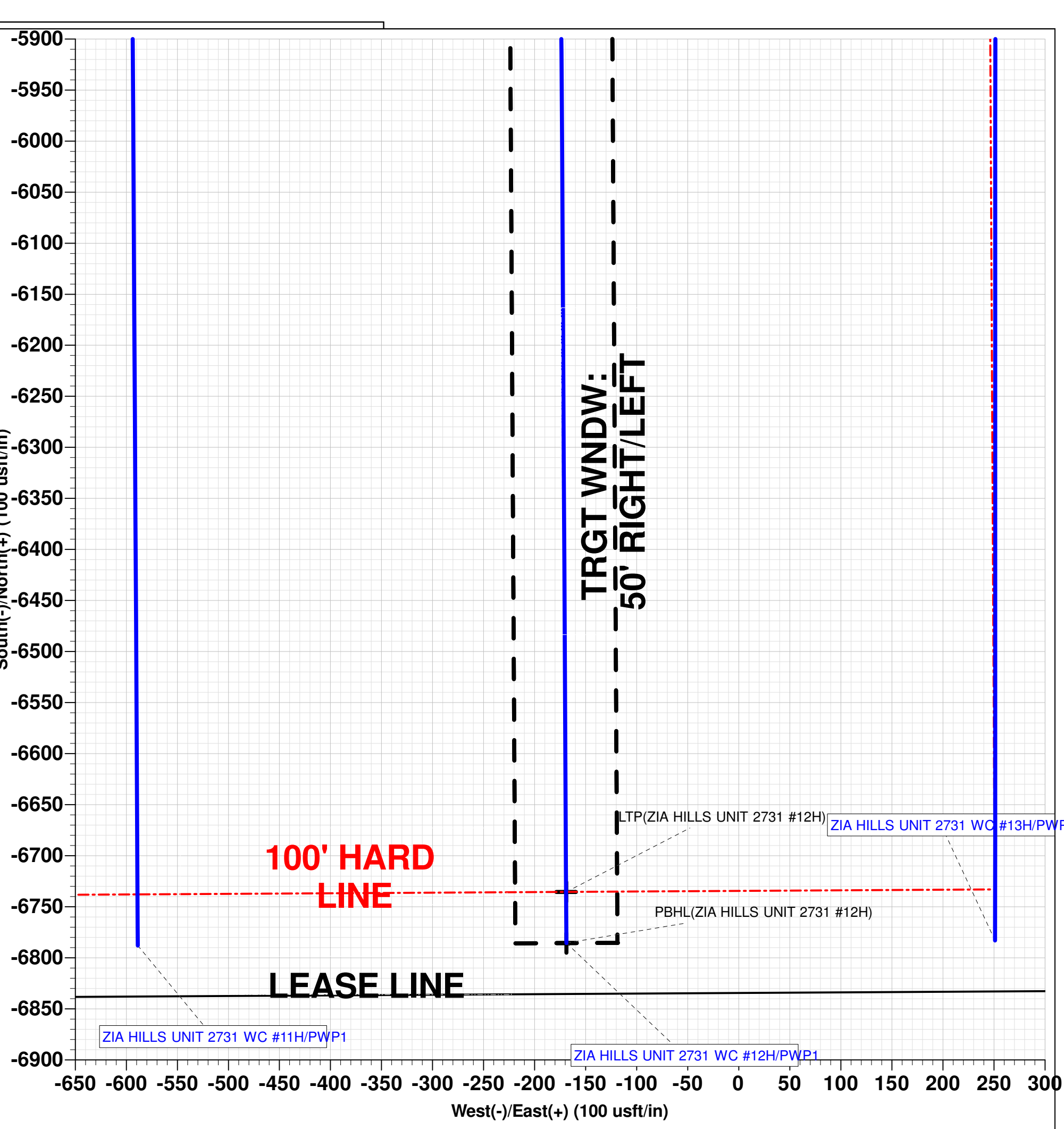
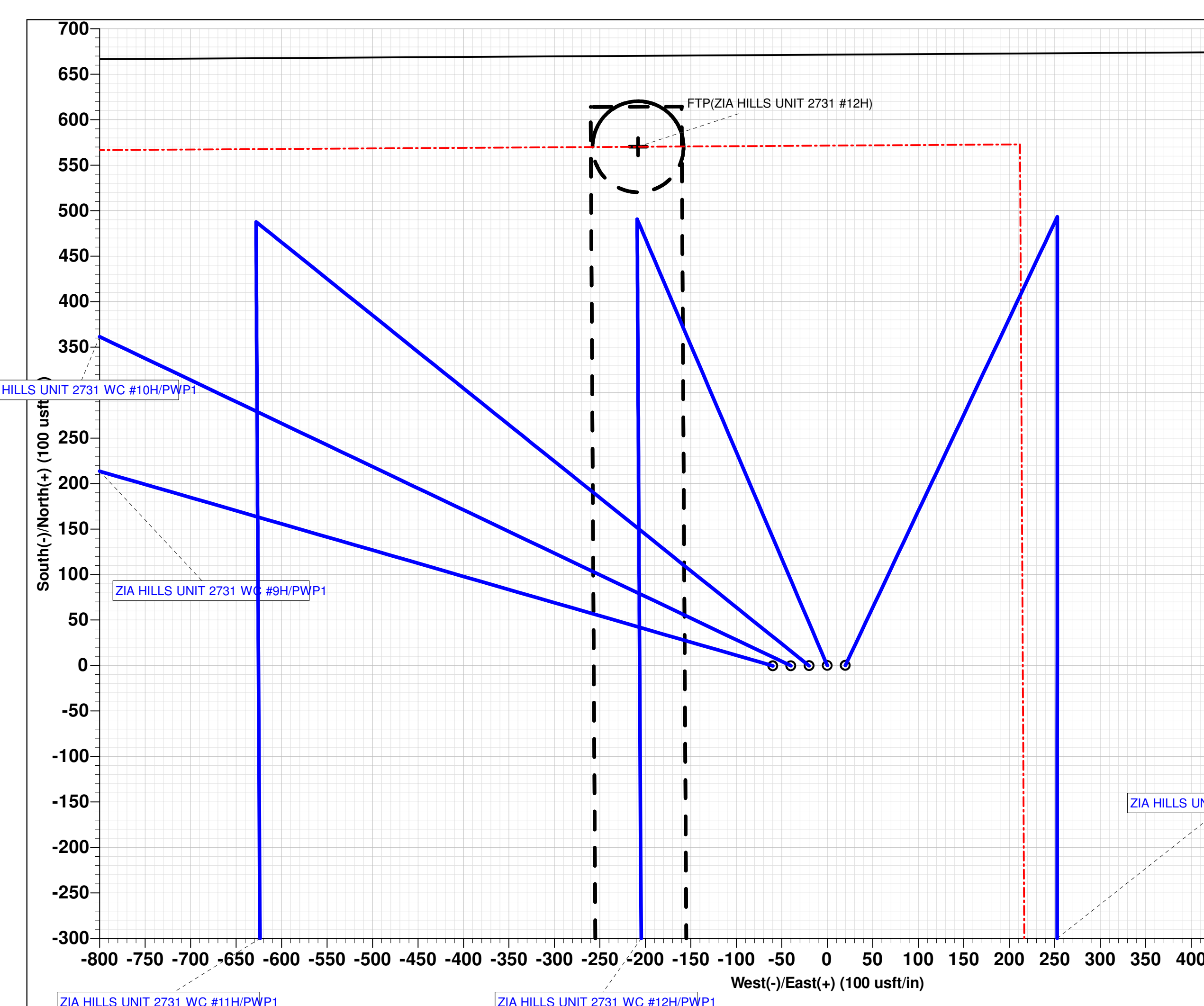
Project: LEA PROSPECT (NM-E)
Site: ZIA HILLS UNIT 2731 PROJECT
Well: ZIA HILLS UNIT 2731 WC #12H
Wellbore: OWB
Design: PWP1
GL: 3145.9
KB=30' @ 3175.9usft (SCAN QUEST)

WELL DETAILS: ZIA HILLS UNIT 2731 WC #12H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	371060.04	678108.02	32° 1' 7.882 N	103° 45' 31.205 W

DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
FTP(ZIA HILLS UNIT 2731 #12H)	11566.0	570.4	-208.0	371630.40	677900.05	32° 1' 13.538 N
LTP(ZIA HILLS UNIT 2731 #12H)	11566.0	-6735.5	-169.1	364324.55	677938.96	32° 0' 1.235 N
PBHL(ZIA HILLS UNIT 2731 #12H)	11566.0	-6785.5	-168.8	364274.56	677939.22	32° 0' 0.741 N



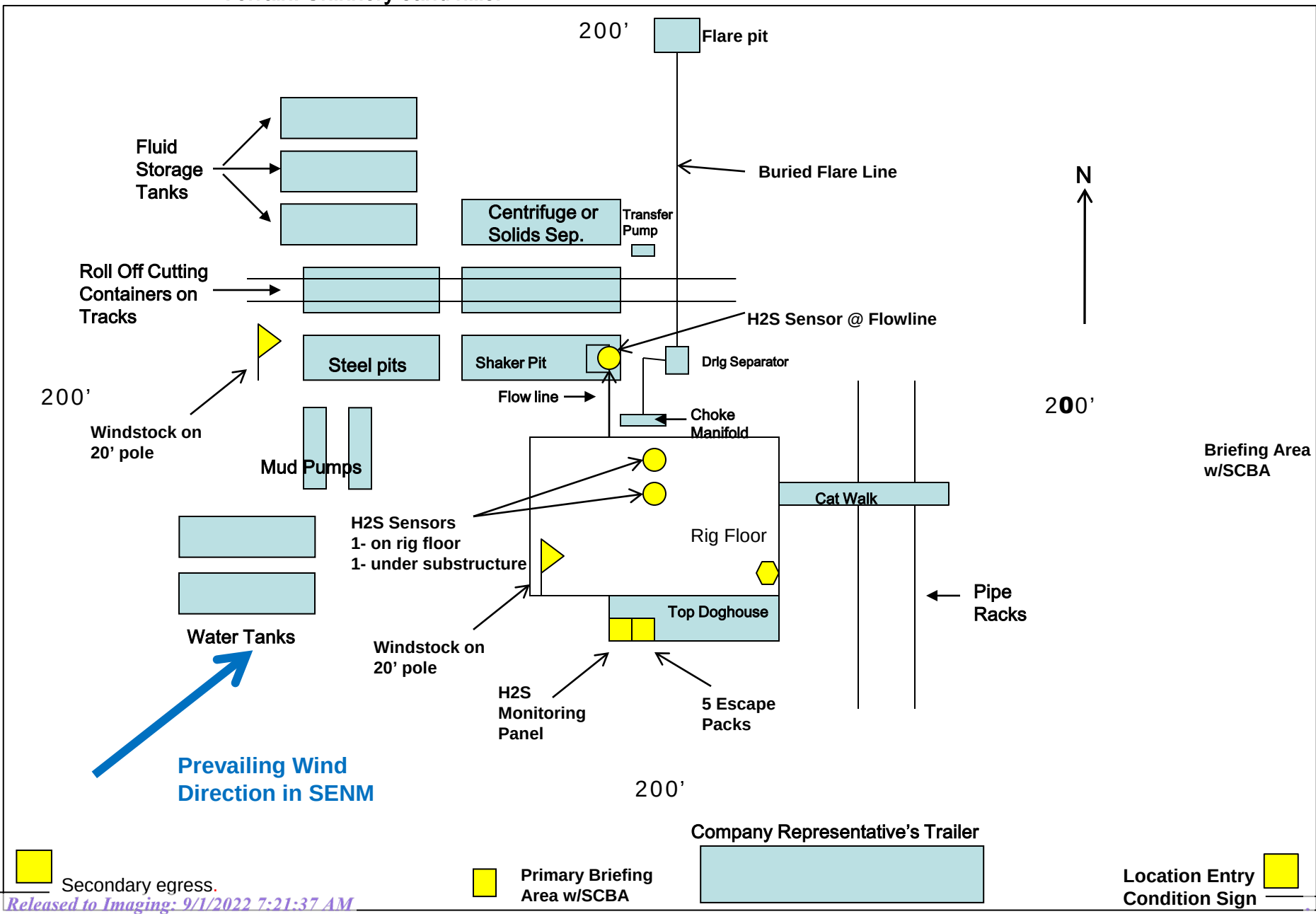
ZIA HILLS UNIT 2731 WC #12H										
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00	
2900.0	8.00	336.93	2898.7	25.6	-10.9	2.00	336.93	-25.4	Start 3230.7 hold at 2900.0 MD	
6130.7	8.00	336.93	6097.9	439.3	-187.1	0.00	0.00	-434.5	Start Drop -1.00	
6930.7	0.00	0.00	6895.3	490.6	-209.0	1.00	180.00	-485.3	Start 4193.2 hold at 6930.7 MD	
11123.8	0.00	0.00	11088.5	490.6	-209.0	0.00	0.00	-485.3	Start DLS 12.00 TFO 179.68	
11873.8	90.00	179.68	11566.0	13.1	-206.4	12.00	179.68	-8.0	Start 6798.7 hold at 11873.8 MD	
18672.6	90.00	179.68	11566.0	-6785.5	-168.8	0.00	0.00	6787.6	TD at 18672.6	



TRGT WNDW: 10' ABOVE/BELOW

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

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



COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

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

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

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

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

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

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

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

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

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

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

W A R N I N G

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

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

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

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

EMERGENCY RESPONSE NUMBERS

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

District I

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

District II

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

District III

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

District IV

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

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

CONDITIONS

Action 139337

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 139337
	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