

Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

5. Lease Serial No.
NMNM82926

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

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

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
ORE DIGGER FEDERAL/504H

2. Name of Operator
COG OPERATING LLC

9. API Well No.

3a. Address 600 West Illinois Ave, Midland, TX 79701

3b. Phone No. (include area code)
(432) 683-7443

10. Field and Pool or Exploratory Area
Teas/Bone Spring

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)
SEC 35/T20S/R33E/NMP

11. Country or Parish, State
LEA/NM

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

TYPE OF SUBMISSION	TYPE OF ACTION				
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

COG Operating LLC, respectfully respects approval for the following chances to the original approved APD.

Drilling Changes: Drilling program, Directional plan and AC report attached.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) MAYTE REYES / Ph: (281) 293-1000	Title Regulatory Analyst
Signature (Electronic Submission)	Date 06/22/2025

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved	Title Petroleum Engineer	Date 09/23/2025
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office CARLSBAD	

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: SWSE / 405 FSL / 1780 FEL / TWSP: 20S / RANGE: 33E / SECTION: 35 / LAT: 32.523456 / LONG: -103.631119 (TVD: 0 feet, MD: 0 feet)

PPP: SESE / 405 FSL / 330 FEL / TWSP: 20S / RANGE: 33E / SECTION: 35 / LAT: 32.522617 / LONG: -103.626415 (TVD: 10434 feet, MD: 10650 feet)

BHL: NENE / 50 FNL / 330 FEL / TWSP: 20S / RANGE: 33E / SECTION: 26 / LAT: 32.551242 / LONG: -103.626414 (TVD: 10481 feet, MD: 20939 feet)

Well Name: ORE DIGGER FEDERAL	Well Location: T20S / R33E / SEC 35 / SWSE / 32.523456 / -103.631119	County or Parish/State: LEA / NM
Well Number: 504H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM82926	Unit or CA Name:	Unit or CA Number:
US Well Number:	Operator: COG OPERATING LLC	

Notice of Intent

Sundry ID: 2859386

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 06/22/2025	Time Sundry Submitted: 08:55
Date proposed operation will begin: 06/22/2025	

Procedure Description: COG Operating LLC, respectfully respects approval for the following changes to the original approved APD. Drilling Changes: Drilling program, Directional plan and AC report attached.

NOI Attachments

- Procedure Description
- ORE_DIGGER_FEDERAL_504H_AC_Report_20250622085334.pdf
 - ORE_DIGGER_FEDERAL_504H_PPlot_20250622085334.pdf
 - ORE_DIGGER_FEDERAL_504H_Planning_Report_20250622085333.pdf
 - Ore_Digger_Fed_Com_504H___Potash_Reef_APD_Drilling_Program_20250622085332.pdf

Well Name: ORE DIGGER FEDERAL	Well Location: T20S / R33E / SEC 35 / SWSE / 32.523456 / -103.631119	County or Parish/State: LEA / NM
Well Number: 504H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM82926	Unit or CA Name:	Unit or CA Number:
US Well Number:	Operator: COG OPERATING LLC	

Conditions of Approval

Additional

ORE_DIGGER_FEDERAL_504H_PPloT_20250923090702.pdf
ORE_DIGGER_FEDERAL_504H_AC_Report_20250923090702.pdf
Ore_Digger_Fed_Com_504H___Potash_Reef_APD_Drilling_Program_20250923090701.pdf
ORE_DIGGER_FEDERAL_504H_Planning_Report_20250923090701.pdf
SEC35_T20SR33E_ORE_DIGGER_FEDERAL_Lea__COG__45736_JS_20250923090647.pdf
ORE_DIGGER_FED_504H_COAs_20250923090647.pdf

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: MAYTE REYES

Signed on: JUN 22, 2025 08:54 AM

Name: COG OPERATING LLC

Title: Regulatory Analyst

Street Address: 925 N ELDRIDGE PARKWAY

City: HOUSTONState: TX

Phone: (281) 293-1000

Email address: MAYTE.X.REYES@CONOCOPHILLIPS.COM

Field

Representative Name: Robyn Russell

Street Address: 600 W. Illinois Ave.

City: MidlandState: TXZip: 79701

Phone: (432)685-4385

Email address: robyn.m.russell@cop.com

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: CWALLS@BLM.GOV

Disposition: Approved

Disposition Date: 09/23/2025

Signature: Chris Walls

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG OPERATING LLC
WELL NAME & NO.:	ORE DIGGER FED 504H
LOCATION:	Section 35, T.20 S., R.33 E., NMP
COUNTY:	Lea County, New Mexico

COA

H₂S	☐ No	☒ Yes	
Potash / WIPP	☐ None	☐ Secretary	☒ R-111-Q ☐ Open Annulus
	4-String Design: Open 2nd Int x Production Casing (ICP 2 above Relief Zone)		
			☐ WIPP
Cave / Karst	☒ Low	☐ Medium	☐ High ☐ Critical
Wellhead	☐ Conventional	☒ Multibowl	☐ Both ☐ Diverter
Cementing	☐ Primary Squeeze	☒ Cont. Squeeze	☒ EchoMeter ☐ DV Tool
Special Req	☒ Capitan Reef	☐ Water Disposal	☐ COM ☐ Unit
Waste Prev.	☐ Self-Certification	☒ Waste Min. Plan	☐ APD Submitted prior to 06/10/2024
Additional Language	☒ Flex Hose	☒ Casing Clearance	☐ Pilot Hole ☒ Break Testing
	☒ Four-String	☒ Offline Cementing	☐ Fluid-Filled

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet 43 CFR part 3170 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

APD is within the R-111-Q defined boundary. Operator must follow all procedures and requirements listed within the updated order.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **1730 feet** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) 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 **10-3/4** inch intermediate 1 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, Capitan Reef, or potash.**
3. Intermediate 2 should be set prior to entering Delaware group to facilitate monitoring during hydraulic fracturing, and post-frac bradenhead cementing. The **8-5/8** inch intermediate 2 casing shall be set at approximately **5500 feet per BLM Geologist**. The minimum required fill of cement behind the **8-5/8** inch intermediate 2 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, Capitan Reef, or potash.**
4. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement should tie-back **500 feet** into the previous casing but not higher than USGS Marker Bed No. 126. **Operator must verify top of cement per R-111-Q requirements.** Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**
 - **Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.**

(Primary + Post Frac Bradenhead):

- **A monitored open annulus will be incorporated during completion by leaving the Intermediate 2 x Production annulus un-cemented and monitored inside the Intermediate String.** Operator must follow monitoring requirements listed within R-111-Q. Tieback requirements shall be met within **180 days**.

Operator has proposed to pump down **intermediate 2 x Production** annulus post completion. **Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the intermediate 2/Production casing to surface after the second stage BH to verify TOC.** Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry during

second stage bradenhead when running Echo-meter if cement is required to surface. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

Operator has proposed an open annulus completion in R-111-Q. Operator shall provide a method of verification pre-completion top of cement. **Submit results to the BLM. Pressure monitoring device and Pressure Safety Valves must be installed at surface on both the intermediate annulus and the production annulus for the life of the well.**

In the event of a casing failure during completion, the operator must contact the BLM at (575-706-2779) and (575-361-2822 Eddy County).

- **After bradenhead mentioned above Cement should tie-back 500 feet or 50 feet on top of the Capitan Reef, whichever is closer to surface into the previous casing but not higher than USGS Marker Bed No. 126. Operator must verify top of cement per R-111-Q requirements. Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.****

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 **20** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) 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)**BOPE Break Testing Variance**

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-689-5981 Lea County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Casing Clearance

- **The W441 connection should tie back 500'+ into the W513 intermediate casing for clearance overlap.**

Operator shall clean up cycles until wellbore is clear of cuttings and any large debris, ensure cutting sizes are adequate "coffee ground or less" before cementing.

Offline Cementing

Contact the BLM prior to the commencement of any offline cementing procedure.

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)

Contact Petroleum Engineering Inspection Staff:

☒ Eddy County

EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
BLM_NM_CFO_DrillingNotifications@BLM.GOV
 (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
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. 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.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** 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. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

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 of both lead and tail cement, 2) until cement has been in place at least 8 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-Q 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 **43 CFR 3172**.
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:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. 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.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. 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.
 - i. 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 cement), 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).
 - ii. 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 cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an

independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** 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 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- iv. 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.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. 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.
- vii. 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.
- viii. 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 **43 CFR 3172**.

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.

JS 9/23/2025

ConocoPhillips Company - Ore Digger Federal #504H

1. Geologic Formations

TVD of target	10,519' EOL	Pilot hole depth	N/A
MD at TD:	20,939'	Deepest expected fresh water:	325'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1484	Water	
Top of Salt	1872	Salt	
USGS Marker Bed 126	2680	Salt	
Base of Salt	3103	Salt Water	
Capitan Reef	3472	Salt Water	
Lamar	5434	Oil/Gas	
Brushy Canyon	6993	Oil/Gas	
Bone Spring	8661	Oil/Gas	
BS1S	9688	Oil/Gas	
BS1SH	9959	Oil/Gas	
BS2S	10205	Target	
BS3C	10719	Not Penetrated	

Potash well archetype: 4-String Design - Uncemented Annulus between 2nd Intermediate and Production Casing Strings (Figure E). Sundry aims to comply with R-111-Q as passed on 5/10/2024.

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
17.50"	0	1730	13.375"	54.5	J55	BTC	1.43	1.97	9.05	9.64
12.25"	0	3300	10.750"	45.5	J55	BTC	2.24	2.52	4.76	5.30
9.875"	0	5390	8.625"	32	P110-ICY	W441	2.26	1.96	6.63	5.39
7.875"	0	20,939'	5.5"	23	P110-CY	TXP-BTC	2.53	3.10	3.01	3.01
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 43 CFR Part 3170 Subpart 3172

The 5 1/2" W441 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 - Ore Digger Federal #504H

	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?	Y
If yes, does production casing cement tie back a minimum of 50' above the Reef?	N
Is well within the designated 4 string boundary?	Y
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?	Y
If yes, are the first three strings cemented to surface?	Y
Is 2 nd string set 100' to 600' below the base of salt?	Y
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 - Ore Digger Federal #504H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft ³ / sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	860	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	240	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Int. #1	710	12.9	1.78	9.21	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	100	14.8	1.42	6.6	8	Tail: Class C + 2% CaCl ₂
Inter. #2	680	12.9	1.78	9.21	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	100	14.8	1.42	6.6	8	Tail: Class C + 2% CaCl ₂
Prod	120	10.5	3.08	19.55	72	Lead: NeoCem
	1400	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

Intermediate #1 Salt/Potash string cemented to surface. Zone of critical cement - 300' above shoe. Minimum 50% OH excess will be pumped. Drill out to wait for 500 PSI compressive strength on lead and tail.

Intermediate #2 Reef string cemented to surface. Zone of critical cement - 500' above shoe. Drill out wait for 500 PSI compressive strength on lead and tail.

Production cement TOC at 7,993' (1,000' below top of Brushy Canyon) leaving uncemented annulus between 2nd intermediate and production casing, leaving DMG/Brushy Canyon open as a relief valve. Post

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%
2 nd Intermediate	0'	50%
Production	7,993'	0% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Ore Digger Federal #504H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
Y	A variance is requested for the use of BOPE break testing on intermediate skids (in accordance with the 30 day full BOPE test requirements).

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
12 1/4"	13-5/8"	5M	Annular	x	2500psi
			Blind Ram	x	5000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		
9-7/8"	13-5/8"	5M	Annular	x	2500psi
			Blind Ram	x	5000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		
7-7/8"	13-5/8"	10M	5M Annular	x	5000psi
			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 43 CFR Part 3170 Subpart 3172 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.
Y	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 43 CFR Part 3170 Subpart 3172.
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 43 CFR Part 3170 Subpart 3172 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.

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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	10-3/4" Int shoe	Saturated Brine	10	28-34	N/C
10-3/4" Int shoe	8-5/8" Int shoe	Saturated Brine	10	28-34	N/C
8-5/8" Int 2 shoe	Lateral TD	WBM	9.5-10.5	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
N	CBL	Production casing (If cement not circulated to surface)
Y	Mud log	Intermediate shoe to TD
N	PEX	Pilot Hole TD to ICP

ConocoPhillips Company - Ore Digger Federal #504H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	5575 psi at 10205' TVD
Abnormal Temperature	NO 65 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 43 CFR Part 3170 Subpart 3176. 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

DELAWARE BASIN WEST

ZEUS WEST__NM_E

ORE DIGGER PROJECT

_ORE DIGGER FEDERAL 504H

OWB

PWP0

Anticollision Report

18 July, 2024

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference	PWP0		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Max. Cent. Dist. of 1,000.0usft or Max. SF of 2	Error Surface:	Combined Pedal Curve
Warning Levels Evaluated at:	2.79 Sigma	Casing Method:	Added to Error Values

Survey Tool Program		Date	7/18/2024		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	20,939.0	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5	

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						
AVANT_SANDRA JEAN PROJECT						
SANDRA JEAN 23 FED COM 501H - OWB - AWP	20,939.0	10,315.3	344.5	258.5	4.006 CC, ES, SF	
SANDRA JEAN 23 FED COM 502H - OWB - AWP	20,939.0	10,287.2	938.0	801.3	6.861 CC, ES, SF	
SANDRA JEAN 23 FED COM 601H - OWB - AWP	20,939.0	10,509.4	100.0	51.9	2.080 Caution - Monitor Closely, CC, ES, SF	
SANDRA JEAN 23 FED COM 602H - OWB - AWP	20,939.0	10,514.5	949.4	796.7	6.219 CC, ES, SF	
SANDRA JEAN 23 FED COM 651H - OWB - AWP	20,939.0	10,450.0	484.4	343.5	3.438 CC, ES, SF	
ORE DIGGER PROJECT						
_ORE DIGGER FEDERAL 501H - OWB - PWP0						Out of range
_ORE DIGGER FEDERAL 502H - OWB - PWP0						Out of range
_ORE DIGGER FEDERAL 503H - OWB - PWP0	1,500.0	1,500.0	59.9	49.0	5.482 CC, ES	
_ORE DIGGER FEDERAL 503H - OWB - PWP0	1,600.0	1,601.3	60.5	49.2	5.345 SF	
_ORE DIGGER FEDERAL 601H - OWB - PWP0						Out of range
_ORE DIGGER FEDERAL 602H - OWB - PWP0						Out of range
_ORE DIGGER FEDERAL 603H - OWB - PWP0	1,500.0	1,500.0	90.0	79.1	8.238 CC, ES	
_ORE DIGGER FEDERAL 603H - OWB - PWP0	1,700.0	1,703.3	93.1	81.5	7.975 SF	
ORE DIGGER FEDERAL 604H - OWB - PWP0	2,018.7	2,023.3	10.0	-2.3	0.812 STOP Drilling, CC, ES, SF	
HALFWAY 35 FEDERAL 1 - OWB - AWP						
MINIS 1 FED COM 2BS 11H - OWB - AWP	10,377.8	10,478.0	454.6	409.1	10.009 CC, ES, SF	
MINIS 1 FED HKY COM 8H - OWB - PLANNED	1,500.0	1,552.0	695.9	684.1	58.930 CC, ES	
MINIS 1 FED HKY COM 8H - OWB - PLANNED	3,600.0	3,594.9	994.4	974.0	48.729 SF	
MINIS 1 FED HKY COM 9H - OWB - PLANNED SURVE	1,500.0	1,579.0	792.3	780.5	67.277 CC, ES	
MINIS 1 FED HKY COM 9H - OWB - PLANNED SURVE	3,200.0	3,236.3	989.1	971.1	54.947 SF	
MINIS 1 FEDERAL COM 3BS 4H - OWB - AWP	961.3	1,041.3	776.7	766.8	78.342 CC	
MINIS 1 FEDERAL COM 3BS 4H - OWB - AWP	1,000.0	1,078.1	776.8	766.8	77.483 ES	
MINIS 1 FEDERAL COM 3BS 4H - OWB - AWP	2,000.0	2,033.0	822.7	809.6	62.848 SF	
MINIS 1 FEDERAL COM 3BS 5H - OWB - AWP	0.0	76.1	758.0	751.5	116.228 CC	
MINIS 1 FEDERAL COM 3BS 5H - OWB - AWP	1,525.6	1,607.6	760.3	747.7	60.174 ES	
MINIS 1 FEDERAL COM 3BS 5H - OWB - AWP	4,000.0	4,077.0	992.0	965.6	37.566 SF	
MINIS 1 FEDERAL COM 3BS 6H - OWB - AWP						Out of range
MINIS 1 FEDERAL COM 3BS 7H - OWB - AWP	8,156.1	8,065.8	679.9	629.3	13.429 CC, ES	
MINIS 1 FEDERAL COM 3BS 7H - OWB - AWP	8,185.2	8,095.0	680.0	629.3	13.420 SF	
MINIS 1 FEDERAL COM WCA 10H - OWB - AWP	10,323.6	10,269.2	646.2	597.4	13.245 CC, ES, SF	
MINIS 1 FEDERAL COM WCA 16H - OWB - AWP						Out of range
TOP HAT 26 FEDERAL #1_PA - OWB - AWP						Out of range

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	AVANT_SANDRA JEAN PROJECT - SANDRA JEAN 23 FED COM 501H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program:	100-r.5 MWD												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning						
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre	Between	Between	No-Go	Separation			
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Distance	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
20,200.0	10,489.4	10,138.8	10,119.1	98.6	20.7	-12.39	10,261.5	1,298.9	967.4	911.2	56.16	17.226		
20,300.0	10,488.3	10,150.0	10,129.3	99.5	20.7	-12.64	10,266.2	1,299.5	876.3	817.6	58.65	14.941		
20,400.0	10,487.2	10,175.0	10,151.6	100.5	20.6	-13.19	10,277.4	1,300.9	786.6	726.0	60.57	12.985		
20,500.0	10,486.0	10,187.7	10,162.6	101.4	20.6	-13.49	10,283.5	1,301.7	698.4	634.1	64.25	10.870		
20,600.0	10,484.9	10,209.3	10,181.1	102.3	20.6	-14.00	10,294.7	1,303.1	612.3	544.4	67.97	9.009		
20,700.0	10,483.7	10,234.6	10,202.0	103.2	20.6	-14.63	10,308.7	1,304.8	528.9	456.5	72.35	7.310		
20,800.0	10,482.6	10,264.4	10,225.7	104.1	20.6	-15.39	10,326.7	1,307.1	448.7	371.2	77.49	5.790		
20,900.0	10,481.4	10,300.0	10,252.4	105.1	20.6	-16.34	10,350.0	1,310.0	372.7	289.3	83.40	4.469		
20,939.0	10,481.0	10,315.3	10,263.4	105.4	20.6	-16.76	10,360.6	1,311.4	344.5	258.5	86.00	4.006 CC, ES, SF		

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	AVANT_SANDRA JEAN PROJECT - SANDRA JEAN 23 FED COM 502H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program:	100-r.5 MWD											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
20,800.0	10,482.6	10,250.0	10,207.1	104.1	21.6	-71.78	10,306.8	509.1	978.1	848.2	129.95	7.527	
20,900.0	10,481.4	10,275.0	10,226.9	105.1	21.6	-73.00	10,322.0	507.5	947.8	812.9	134.91	7.025	
20,939.0	10,481.0	10,287.2	10,236.2	105.4	21.6	-73.58	10,329.8	506.7	938.0	801.3	136.71	6.861 CC, ES, SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: AVANT_SANDRA JEAN PROJECT - SANDRA JEAN 23 FED COM 601H - OWB - AWP													Offset Site Error:		0.0 usft		
Survey Program:		100-r.5 MWD										Rule Assigned:		Offset Well Error:		0.0 usft	
Measured	Reference	Offset		Semi Major Axis			Offset Wellbore Centre			Distance			Warning				
Depth	Vertical	Measured	Vertical	Reference	Offset	Highside					Between	Between	No-Go	Separation			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	Toolface	+N/-S	+E/-W	Centres	Ellipses	Distance	Factor					
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)					
20,100.0	10,490.6	10,519.0	10,506.1	97.7	28.3	-179.01	10,218.2	1,381.8	938.9	892.2	46.74	20.090					
20,200.0	10,489.4	10,517.9	10,504.9	98.6	28.3	-178.90	10,218.2	1,381.8	839.0	792.1	46.89	17.893					
20,300.0	10,488.3	10,516.7	10,503.8	99.5	28.3	-178.75	10,218.2	1,381.8	739.0	691.9	47.04	15.710					
20,400.0	10,487.2	10,515.6	10,502.7	100.5	28.3	-178.55	10,218.2	1,381.8	639.0	591.8	47.19	13.540					
20,500.0	10,486.0	10,514.4	10,501.5	101.4	28.3	-178.28	10,218.2	1,381.8	539.0	491.6	47.34	11.384					
20,600.0	10,484.9	10,513.3	10,500.4	102.3	28.3	-177.89	10,218.2	1,381.8	439.0	391.5	47.50	9.242					
20,700.0	10,483.7	10,512.1	10,499.2	103.2	28.3	-177.27	10,218.2	1,381.8	339.0	291.3	47.66	7.113					
20,800.0	10,482.6	10,511.0	10,498.1	104.1	28.3	-176.13	10,218.2	1,381.8	239.0	191.2	47.82	4.998					
20,900.0	10,481.4	10,509.9	10,496.9	105.1	28.3	-173.36	10,218.2	1,381.8	139.0	91.0	47.99	2.896	Normal Operations				
20,939.0	10,481.0	10,509.4	10,496.5	105.4	28.3	-170.81	10,218.2	1,381.8	100.0	51.9	48.07	2.080	Caution - Monitor Closely, CC, ES, SF				

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	AVANT_SANDRA JEAN PROJECT - SANDRA JEAN 23 FED COM 602H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program:	100-r.5 MWD											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:							
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside							
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Between	Between	No-Go	Separation	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	Distance	Factor	
									(usft)	(usft)	(usft)		
20,800.0	10,482.6	10,516.1	10,498.1	104.1	30.4	-90.17	10,211.7	437.9	973.9	825.8	148.01	6.580	
20,900.0	10,481.4	10,515.0	10,496.9	105.1	30.4	-90.10	10,211.7	437.9	954.3	802.7	151.62	6.294	
20,939.0	10,481.0	10,514.5	10,496.5	105.4	30.4	-90.07	10,211.7	437.9	949.4	796.7	152.66	6.219 CC, ES, SF	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: AVANT_SANDRA JEAN PROJECT - SANDRA JEAN 23 FED COM 651H - OWB - AWP													Offset Site Error:		0.0 usft		
Survey Program:		100-r.5 MWD										Rule Assigned:		Offset Well Error:		0.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance						Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor					
20,200.0	10,489.4	10,359.1	10,355.8	98.6	17.6	-73.25	10,222.1	918.7	975.9	898.8	77.17	12.646					
20,300.0	10,488.3	10,365.4	10,362.0	99.5	17.6	-73.95	10,223.3	918.7	890.4	807.9	82.51	10.792					
20,400.0	10,487.2	10,375.0	10,371.4	100.5	17.6	-75.03	10,225.1	918.7	808.1	719.1	88.96	9.084					
20,500.0	10,486.0	10,375.0	10,371.4	101.4	17.6	-75.03	10,225.1	918.7	730.0	633.6	96.40	7.572					
20,600.0	10,484.9	10,392.0	10,388.0	102.3	17.5	-76.97	10,228.9	918.7	657.5	551.9	105.55	6.229					
20,700.0	10,483.7	10,400.0	10,395.7	103.2	17.5	-77.88	10,230.9	918.6	592.6	477.0	115.63	5.125					
20,800.0	10,482.6	10,425.0	10,419.7	104.1	17.5	-80.75	10,238.0	918.6	537.9	410.9	126.94	4.237					
20,900.0	10,481.4	10,442.3	10,436.1	105.1	17.4	-82.75	10,243.6	918.6	496.3	359.0	137.36	3.613					
20,939.0	10,481.0	10,450.0	10,443.2	105.4	17.4	-83.63	10,246.3	918.5	484.4	343.5	140.89	3.438	CC, ES, SF				

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - _ORE DIGGER FEDERAL 503H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	0.0	-90.55	-0.6	-59.9	59.9	55.2	4.70	12.756	
100.0	100.0	100.0	100.0	3.2	1.2	-90.55	-0.6	-59.9	59.9	54.6	5.33	11.240	
200.0	200.0	200.0	200.0	3.5	1.7	-90.55	-0.6	-59.9	59.9	54.0	5.89	10.164	
300.0	300.0	300.0	300.0	3.7	2.1	-90.55	-0.6	-59.9	59.9	53.5	6.41	9.348	
400.0	400.0	400.0	400.0	3.9	2.4	-90.55	-0.6	-59.9	59.9	53.0	6.88	8.700	
500.0	500.0	500.0	500.0	4.1	2.7	-90.55	-0.6	-59.9	59.9	52.6	7.33	8.168	
600.0	600.0	600.0	600.0	4.2	3.0	-90.55	-0.6	-59.9	59.9	52.1	7.76	7.722	
700.0	700.0	700.0	700.0	4.4	3.2	-90.55	-0.6	-59.9	59.9	51.7	8.16	7.340	
800.0	800.0	800.0	800.0	4.6	3.5	-90.55	-0.6	-59.9	59.9	51.3	8.55	7.008	
900.0	900.0	900.0	900.0	4.8	3.7	-90.55	-0.6	-59.9	59.9	51.0	8.92	6.716	
1,000.0	1,000.0	1,000.0	1,000.0	4.9	3.9	-90.55	-0.6	-59.9	59.9	50.6	9.28	6.456	
1,100.0	1,100.0	1,100.0	1,100.0	5.1	4.1	-90.55	-0.6	-59.9	59.9	50.3	9.62	6.223	
1,200.0	1,200.0	1,200.0	1,200.0	5.2	4.3	-90.55	-0.6	-59.9	59.9	49.9	9.96	6.012	
1,300.0	1,300.0	1,300.0	1,300.0	5.4	4.5	-90.55	-0.6	-59.9	59.9	49.6	10.29	5.820	
1,400.0	1,400.0	1,400.0	1,400.0	5.5	4.7	-90.55	-0.6	-59.9	59.9	49.3	10.61	5.644	
1,500.0	1,500.0	1,500.0	1,500.0	5.7	4.8	-90.55	-0.6	-59.9	59.9	49.0	10.93	5.482 CC, ES	
1,600.0	1,600.0	1,601.3	1,601.3	5.9	5.1	168.79	-2.0	-58.8	60.5	49.2	11.33	5.345 SF	
1,700.0	1,699.8	1,702.5	1,702.3	6.1	5.3	165.80	-6.2	-55.4	62.6	50.9	11.69	5.352	
1,800.0	1,799.5	1,803.5	1,802.9	6.4	5.6	161.24	-13.2	-49.9	66.3	54.3	12.05	5.503	
1,900.0	1,898.7	1,904.2	1,902.8	6.6	5.9	155.72	-22.9	-42.2	72.2	59.8	12.39	5.821	
2,000.0	1,997.5	2,004.1	2,001.5	6.9	6.0	150.16	-34.9	-32.6	80.6	67.9	12.66	6.364	
2,100.0	2,095.6	2,103.2	2,099.4	7.2	6.3	146.58	-47.2	-22.9	92.3	79.3	13.01	7.095	
2,200.0	2,193.1	2,202.1	2,197.0	7.5	6.5	144.84	-59.5	-13.1	107.2	93.8	13.41	7.994	
2,271.0	2,261.7	2,272.0	2,266.0	7.7	6.7	144.43	-68.2	-6.2	119.4	105.8	13.66	8.740	
2,300.0	2,289.7	2,300.5	2,294.2	7.8	6.8	144.43	-71.8	-3.4	124.7	111.0	13.76	9.065	
2,400.0	2,386.1	2,398.8	2,391.3	8.1	7.1	144.44	-84.0	6.3	143.0	128.8	14.18	10.086	
2,500.0	2,482.5	2,497.1	2,488.4	8.4	7.4	144.45	-96.2	16.0	161.3	146.7	14.62	11.034	
2,600.0	2,578.9	2,595.5	2,585.4	8.7	7.7	144.46	-108.4	25.7	179.6	164.5	15.07	11.911	
2,700.0	2,675.3	2,693.8	2,682.5	9.1	8.1	144.46	-120.6	35.4	197.8	182.3	15.55	12.722	
2,800.0	2,771.7	2,792.1	2,779.6	9.4	8.4	144.47	-132.9	45.0	216.1	200.1	16.04	13.471	
2,900.0	2,868.1	2,890.4	2,876.7	9.8	8.8	144.47	-145.1	54.7	234.4	217.8	16.55	14.164	
3,000.0	2,964.5	2,988.7	2,973.7	10.2	9.1	144.48	-157.3	64.4	252.7	235.6	17.07	14.803	
3,100.0	3,060.9	3,087.0	3,070.8	10.6	9.5	144.48	-169.5	74.1	270.9	253.3	17.60	15.395	
3,200.0	3,157.3	3,185.4	3,167.9	11.0	9.9	144.48	-181.7	83.8	289.2	271.1	18.14	15.942	
3,300.0	3,253.7	3,283.7	3,264.9	11.4	10.3	144.48	-193.9	93.5	307.5	288.8	18.69	16.449	
3,400.0	3,350.1	3,381.1	3,361.2	11.8	10.6	144.56	-205.7	102.8	325.9	306.6	19.27	16.909	
3,500.0	3,446.5	3,477.9	3,457.1	12.2	11.0	144.89	-216.2	111.2	344.6	324.7	19.86	17.351	
3,600.0	3,542.9	3,574.6	3,553.0	12.7	11.4	145.44	-225.4	118.4	363.8	343.3	20.47	17.773	
3,700.0	3,639.3	3,670.9	3,648.9	13.1	11.7	146.17	-233.3	124.7	383.4	362.3	21.10	18.172	
3,800.0	3,735.7	3,766.9	3,744.5	13.5	12.1	147.06	-239.9	129.9	403.5	381.8	21.75	18.552	
3,900.0	3,832.1	3,862.5	3,839.9	14.0	12.4	148.07	-245.2	134.2	424.2	401.8	22.42	18.919	
4,000.0	3,928.5	3,957.7	3,934.9	14.4	12.7	149.18	-249.3	137.4	445.5	422.4	23.11	19.276	
4,100.0	4,024.9	4,052.4	4,029.5	14.9	13.0	150.38	-252.1	139.6	467.5	443.7	23.82	19.630	
4,200.0	4,121.3	4,146.5	4,123.6	15.3	13.2	151.63	-253.7	140.9	490.3	465.7	24.53	19.985	
4,300.0	4,217.7	4,240.6	4,217.7	15.8	13.4	152.95	-254.1	141.2	513.8	488.5	25.23	20.362	
4,400.0	4,314.1	4,337.0	4,314.1	16.2	13.4	154.23	-254.1	141.2	537.8	511.8	25.93	20.735	
4,500.0	4,410.5	4,433.4	4,410.5	16.7	13.5	155.40	-254.1	141.2	562.0	535.3	26.64	21.095	
4,600.0	4,506.9	4,529.8	4,506.9	17.2	13.5	156.47	-254.1	141.2	586.4	559.1	27.34	21.448	
4,700.0	4,603.3	4,626.2	4,603.3	17.6	13.6	157.46	-254.1	141.2	611.0	583.0	28.04	21.792	
4,800.0	4,699.7	4,722.6	4,699.7	18.1	13.6	158.38	-254.1	141.2	635.8	607.0	28.73	22.127	
4,900.0	4,796.1	4,819.0	4,796.1	18.6	13.7	159.22	-254.1	141.2	660.7	631.2	29.42	22.454	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - _ORE DIGGER FEDERAL 503H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,000.0	4,892.5	4,915.4	4,892.5	19.0	13.7	160.01	-254.1	141.2	685.7	655.6	30.11	22.771		
5,100.0	4,988.9	5,011.8	4,988.9	19.5	13.8	160.74	-254.1	141.2	710.8	680.0	30.80	23.080		
5,200.0	5,085.3	5,108.2	5,085.3	20.0	13.9	161.42	-254.1	141.2	736.1	704.6	31.49	23.379		
5,300.0	5,181.7	5,204.6	5,181.7	20.5	13.9	162.05	-254.1	141.2	761.4	729.3	32.17	23.669		
5,400.0	5,278.1	5,301.0	5,278.1	20.9	14.0	162.65	-254.1	141.2	786.8	754.0	32.85	23.951		
5,500.0	5,374.5	5,397.4	5,374.5	21.4	14.0	163.21	-254.1	141.2	812.3	778.8	33.53	24.224		
5,600.0	5,470.9	5,493.8	5,470.9	21.9	14.1	163.73	-254.1	141.2	837.9	803.7	34.22	24.489		
5,700.0	5,567.3	5,590.2	5,567.3	22.4	14.1	164.22	-254.1	141.2	863.5	828.6	34.90	24.745		
5,800.0	5,663.7	5,686.6	5,663.7	22.9	14.2	164.69	-254.1	141.2	889.2	853.6	35.58	24.994		
5,900.0	5,760.1	5,783.0	5,760.1	23.3	14.2	165.13	-254.1	141.2	914.9	878.7	36.26	25.234		
6,000.0	5,856.5	5,879.4	5,856.5	23.8	14.3	165.54	-254.1	141.2	940.7	903.8	36.94	25.468		
6,100.0	5,952.9	5,975.8	5,952.9	24.3	14.3	165.93	-254.1	141.2	966.5	928.9	37.62	25.694		
6,200.0	6,049.3	6,072.2	6,049.3	24.8	14.4	166.31	-254.1	141.2	992.4	954.1	38.30	25.913		

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - _ORE DIGGER FEDERAL 603H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		No-Go		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor	
0.0	0.0	0.0	0.0	3.0	0.0	-90.37	-0.6	-90.0	90.0	85.3	4.70	19.168	
100.0	100.0	100.0	100.0	3.2	1.2	-90.37	-0.6	-90.0	90.0	84.7	5.33	16.890	
200.0	200.0	200.0	200.0	3.5	1.7	-90.37	-0.6	-90.0	90.0	84.1	5.89	15.273	
300.0	300.0	300.0	300.0	3.7	2.1	-90.37	-0.6	-90.0	90.0	83.6	6.41	14.047	
400.0	400.0	400.0	400.0	3.9	2.4	-90.37	-0.6	-90.0	90.0	83.1	6.88	13.073	
500.0	500.0	500.0	500.0	4.1	2.7	-90.37	-0.6	-90.0	90.0	82.7	7.33	12.275	
600.0	600.0	600.0	600.0	4.2	3.0	-90.37	-0.6	-90.0	90.0	82.2	7.76	11.604	
700.0	700.0	700.0	700.0	4.4	3.2	-90.37	-0.6	-90.0	90.0	81.8	8.16	11.030	
800.0	800.0	800.0	800.0	4.6	3.5	-90.37	-0.6	-90.0	90.0	81.5	8.55	10.531	
900.0	900.0	900.0	900.0	4.8	3.7	-90.37	-0.6	-90.0	90.0	81.1	8.92	10.092	
1,000.0	1,000.0	1,000.0	1,000.0	4.9	3.9	-90.37	-0.6	-90.0	90.0	80.7	9.28	9.701	
1,100.0	1,100.0	1,100.0	1,100.0	5.1	4.1	-90.37	-0.6	-90.0	90.0	80.4	9.62	9.351	
1,200.0	1,200.0	1,200.0	1,200.0	5.2	4.3	-90.37	-0.6	-90.0	90.0	80.0	9.96	9.034	
1,300.0	1,300.0	1,300.0	1,300.0	5.4	4.5	-90.37	-0.6	-90.0	90.0	79.7	10.29	8.745	
1,400.0	1,400.0	1,400.0	1,400.0	5.5	4.7	-90.37	-0.6	-90.0	90.0	79.4	10.61	8.481	
1,500.0	1,500.0	1,500.0	1,500.0	5.7	4.8	-90.37	-0.6	-90.0	90.0	79.1	10.93	8.238 CC, ES	
1,600.0	1,600.0	1,601.7	1,601.7	5.9	5.1	169.26	-2.1	-89.0	90.8	79.4	11.32	8.019	
1,700.0	1,699.8	1,703.3	1,703.1	6.1	5.3	167.04	-6.6	-86.1	93.1	81.5	11.68	7.975 SF	
1,800.0	1,799.5	1,804.0	1,803.5	6.4	5.4	163.78	-13.8	-81.3	97.5	85.6	11.97	8.152	
1,900.0	1,898.7	1,903.6	1,902.6	6.6	5.6	161.15	-21.4	-76.4	105.3	92.9	12.34	8.534	
2,000.0	1,997.5	2,002.9	2,001.5	6.9	5.8	159.46	-29.0	-71.4	116.4	103.7	12.73	9.147	
2,100.0	2,095.6	2,101.8	2,100.1	7.2	6.1	158.60	-36.6	-66.5	130.9	117.7	13.15	9.954	
2,200.0	2,193.1	2,200.3	2,198.1	7.5	6.3	158.37	-44.1	-61.5	148.6	135.0	13.60	10.923	
2,271.0	2,261.7	2,269.7	2,267.2	7.7	6.5	158.48	-49.4	-58.1	163.0	149.1	13.89	11.738	
2,300.0	2,289.7	2,298.1	2,295.5	7.8	6.6	158.61	-51.6	-56.7	169.3	155.3	14.00	12.096	
2,400.0	2,386.1	2,395.7	2,392.7	8.1	6.8	158.98	-59.0	-51.8	190.8	176.4	14.45	13.209	
2,500.0	2,482.5	2,493.4	2,490.0	8.4	7.1	159.28	-66.5	-46.9	212.4	197.4	14.92	14.234	
2,600.0	2,578.9	2,591.0	2,587.2	8.7	7.4	159.52	-73.9	-42.0	233.9	218.5	15.41	15.175	
2,700.0	2,675.3	2,688.7	2,684.4	9.1	7.7	159.72	-81.4	-37.1	255.5	239.5	15.93	16.038	
2,800.0	2,771.7	2,786.3	2,781.7	9.4	8.0	159.89	-88.9	-32.3	277.0	260.5	16.46	16.830	
2,900.0	2,868.1	2,884.0	2,878.9	9.8	8.3	160.03	-96.3	-27.4	298.6	281.6	17.01	17.556	
3,000.0	2,964.5	2,981.6	2,976.1	10.2	8.6	160.16	-103.8	-22.5	320.1	302.5	17.57	18.221	
3,100.0	3,060.9	3,079.3	3,073.4	10.6	8.9	160.27	-111.3	-17.6	341.7	323.5	18.14	18.832	
3,200.0	3,157.3	3,176.9	3,170.6	11.0	9.3	160.37	-118.7	-12.7	363.2	344.5	18.73	19.394	
3,300.0	3,253.7	3,274.6	3,267.9	11.4	9.6	160.45	-126.2	-7.8	384.8	365.5	19.33	19.910	
3,400.0	3,350.1	3,372.2	3,365.1	11.8	9.9	160.53	-133.6	-3.0	406.3	386.4	19.93	20.385	
3,500.0	3,446.5	3,469.8	3,462.3	12.2	10.3	160.60	-141.1	1.9	427.9	407.3	20.55	20.823	
3,600.0	3,542.9	3,567.5	3,559.6	12.7	10.6	160.66	-148.6	6.8	449.5	428.3	21.17	21.228	
3,700.0	3,639.3	3,665.1	3,656.8	13.1	10.9	160.72	-156.0	11.7	471.0	449.2	21.80	21.602	
3,800.0	3,735.7	3,762.8	3,754.1	13.5	11.3	160.77	-163.5	16.6	492.6	470.1	22.44	21.948	
3,900.0	3,832.1	3,860.4	3,851.3	14.0	11.6	160.82	-170.9	21.4	514.1	491.0	23.09	22.269	
4,000.0	3,928.5	3,958.1	3,948.5	14.4	12.0	160.86	-178.4	26.3	535.7	512.0	23.74	22.568	
4,100.0	4,024.9	4,055.7	4,045.8	14.9	12.3	160.90	-185.9	31.2	557.3	532.9	24.39	22.845	
4,200.0	4,121.3	4,153.4	4,143.0	15.3	12.7	160.94	-193.3	36.1	578.8	553.8	25.05	23.104	
4,300.0	4,217.7	4,251.0	4,240.3	15.8	13.0	160.97	-200.8	41.0	600.4	574.7	25.72	23.345	
4,400.0	4,314.1	4,348.7	4,337.5	16.2	13.4	161.00	-208.3	45.8	621.9	595.6	26.39	23.571	
4,500.0	4,410.5	4,446.3	4,434.7	16.7	13.8	161.03	-215.7	50.7	643.5	616.4	27.06	23.782	
4,600.0	4,506.9	4,544.0	4,532.0	17.2	14.1	161.06	-223.2	55.6	665.1	637.3	27.73	23.980	
4,700.0	4,603.3	4,641.6	4,629.2	17.6	14.5	161.09	-230.6	60.5	686.6	658.2	28.41	24.165	
4,800.0	4,699.7	4,739.3	4,726.5	18.1	14.8	161.11	-238.1	65.4	708.2	679.1	29.10	24.340	
4,900.0	4,796.1	4,836.9	4,823.7	18.6	15.2	161.14	-245.6	70.2	729.7	700.0	29.78	24.504	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - _ORE DIGGER FEDERAL 603H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.0	4,892.5	4,934.6	4,920.9	19.0	15.6	161.16	-253.0	75.1	751.3	720.8	30.47	24.658	
5,100.0	4,988.9	5,032.2	5,018.2	19.5	15.9	161.18	-260.5	80.0	772.9	741.7	31.16	24.804	
5,200.0	5,085.3	5,129.9	5,115.4	20.0	16.3	161.20	-267.9	84.9	794.4	762.6	31.85	24.942	
5,300.0	5,181.7	5,227.5	5,212.7	20.5	16.7	161.22	-275.4	89.8	816.0	783.4	32.55	25.072	
5,400.0	5,278.1	5,325.1	5,309.9	20.9	17.0	161.23	-282.9	94.6	837.6	804.3	33.24	25.195	
5,500.0	5,374.5	5,422.8	5,407.1	21.4	17.4	161.25	-290.3	99.5	859.1	825.2	33.94	25.312	
5,600.0	5,470.9	5,520.4	5,504.4	21.9	17.8	161.27	-297.8	104.4	880.7	846.0	34.64	25.422	
5,700.0	5,567.3	5,618.1	5,601.6	22.4	18.1	161.28	-305.3	109.3	902.2	866.9	35.34	25.527	
5,800.0	5,663.7	5,715.7	5,698.9	22.9	18.5	161.30	-312.7	114.2	923.8	887.8	36.05	25.627	
5,900.0	5,760.1	5,813.4	5,796.1	23.3	18.9	161.31	-320.2	119.0	945.4	908.6	36.75	25.722	
6,000.0	5,856.5	5,911.0	5,893.3	23.8	19.2	161.32	-327.6	123.9	966.9	929.5	37.46	25.813	
6,100.0	5,952.9	6,007.8	5,989.7	24.3	19.6	161.34	-335.0	128.7	988.5	950.3	38.16	25.903	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well_ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - _ORE DIGGER FEDERAL 604H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		No-Go Distance (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)						
0.0	0.0	0.0	0.0	3.0	0.0	-90.42	-0.2	-30.0	30.0	25.3	4.70	6.389		
100.0	100.0	100.0	100.0	3.2	1.2	-90.42	-0.2	-30.0	30.0	24.7	5.33	5.630		
200.0	200.0	200.0	200.0	3.5	1.7	-90.42	-0.2	-30.0	30.0	24.1	5.89	5.091		
300.0	300.0	300.0	300.0	3.7	2.1	-90.42	-0.2	-30.0	30.0	23.6	6.41	4.682		
400.0	400.0	400.0	400.0	3.9	2.4	-90.42	-0.2	-30.0	30.0	23.1	6.88	4.358		
500.0	500.0	500.0	500.0	4.1	2.7	-90.42	-0.2	-30.0	30.0	22.7	7.33	4.092		
600.0	600.0	600.0	600.0	4.2	3.0	-90.42	-0.2	-30.0	30.0	22.2	7.76	3.868		
700.0	700.0	700.0	700.0	4.4	3.2	-90.42	-0.2	-30.0	30.0	21.8	8.16	3.677		
800.0	800.0	800.0	800.0	4.6	3.5	-90.42	-0.2	-30.0	30.0	21.5	8.55	3.510		
900.0	900.0	900.0	900.0	4.8	3.7	-90.42	-0.2	-30.0	30.0	21.1	8.92	3.364		
1,000.0	1,000.0	1,000.0	1,000.0	4.9	3.9	-90.42	-0.2	-30.0	30.0	20.7	9.28	3.234		
1,100.0	1,100.0	1,100.0	1,100.0	5.1	4.1	-90.42	-0.2	-30.0	30.0	20.4	9.62	3.117		
1,200.0	1,200.0	1,200.0	1,200.0	5.2	4.3	-90.42	-0.2	-30.0	30.0	20.0	9.96	3.011		
1,300.0	1,300.0	1,300.0	1,300.0	5.4	4.5	-90.42	-0.2	-30.0	30.0	19.7	10.29	2.915 Normal Operations		
1,400.0	1,400.0	1,400.0	1,400.0	5.5	4.7	-90.42	-0.2	-30.0	30.0	19.4	10.61	2.827 Normal Operations		
1,500.0	1,500.0	1,500.0	1,500.0	5.7	4.8	-90.42	-0.2	-30.0	30.0	19.1	10.93	2.746 Normal Operations		
1,600.0	1,600.0	1,601.6	1,601.6	5.9	5.3	169.25	-0.9	-27.2	29.0	17.4	11.55	2.507 Normal Operations		
1,700.0	1,699.8	1,703.1	1,702.6	6.1	5.7	166.76	-2.8	-18.8	25.9	13.8	12.12	2.137 Caution - Monitor Closely		
1,800.0	1,799.5	1,804.2	1,802.7	6.4	6.2	161.03	-6.1	-5.0	21.0	8.3	12.64	1.660 Caution - Monitor Closely		
1,900.0	1,898.7	1,904.8	1,901.3	6.6	6.6	146.91	-10.5	14.3	14.7	1.8	12.92	1.139 Take Immediate Action		
2,000.0	1,997.5	2,004.6	1,998.2	6.9	6.8	110.20	-16.1	37.9	10.1	-2.3	12.39	0.818 STOP Drilling		
2,018.7	2,015.9	2,023.3	2,016.2	7.0	6.8	102.20	-17.1	42.5	10.0	-2.3	12.34	0.812 STOP Drilling, CC, ES, SF		
2,100.0	2,095.6	2,104.4	2,094.8	7.2	7.0	77.24	-21.7	62.2	11.3	-1.3	12.65	0.895 STOP Drilling		
2,200.0	2,193.1	2,204.4	2,191.6	7.5	7.3	68.20	-27.4	86.6	13.5	0.3	13.20	1.026 Take Immediate Action		
2,271.0	2,261.7	2,275.3	2,260.3	7.7	7.5	70.99	-31.4	103.8	14.5	1.1	13.36	1.082 Take Immediate Action		
2,300.0	2,289.7	2,304.4	2,288.4	7.8	7.6	73.37	-33.1	110.9	14.7	1.3	13.38	1.101 Take Immediate Action		
2,400.0	2,386.1	2,404.3	2,385.2	8.1	7.9	80.86	-38.8	135.2	15.8	2.3	13.58	1.167 Take Immediate Action		
2,500.0	2,482.5	2,504.3	2,482.0	8.4	8.3	87.28	-44.4	159.6	17.2	3.3	13.87	1.240 Take Immediate Action		
2,600.0	2,578.9	2,604.3	2,578.8	8.7	8.6	92.70	-50.1	183.9	18.7	4.5	14.24	1.316 Take Immediate Action		
2,700.0	2,675.3	2,704.3	2,675.6	9.1	9.0	97.26	-55.8	208.2	20.4	5.7	14.67	1.391 Take Immediate Action		
2,800.0	2,771.7	2,804.2	2,772.4	9.4	9.3	101.12	-61.5	232.5	22.2	7.0	15.17	1.464 Take Immediate Action		
2,900.0	2,868.1	2,904.2	2,869.2	9.8	9.7	104.38	-67.1	256.9	24.1	8.4	15.71	1.533 Caution - Monitor Closely		
3,000.0	2,964.5	3,004.2	2,966.0	10.2	10.1	107.17	-72.8	281.2	26.0	9.7	16.29	1.597 Caution - Monitor Closely		
3,100.0	3,060.9	3,104.2	3,062.8	10.6	10.5	109.56	-78.5	305.5	28.0	11.1	16.90	1.658 Caution - Monitor Closely		
3,200.0	3,157.3	3,204.1	3,159.6	11.0	10.9	111.64	-84.2	329.9	30.0	12.5	17.53	1.714 Caution - Monitor Closely		
3,300.0	3,253.7	3,304.1	3,256.4	11.4	11.3	113.45	-89.8	354.2	32.1	13.9	18.19	1.766 Caution - Monitor Closely		
3,400.0	3,350.1	3,404.1	3,353.2	11.8	11.8	115.04	-95.5	378.5	34.2	15.3	18.86	1.814 Caution - Monitor Closely		
3,500.0	3,446.5	3,504.1	3,450.0	12.2	12.2	116.44	-101.2	402.9	36.3	16.8	19.55	1.858 Caution - Monitor Closely		
3,600.0	3,542.9	3,604.0	3,546.8	12.7	12.6	117.69	-106.9	427.2	38.5	18.2	20.25	1.900 Caution - Monitor Closely		
3,700.0	3,639.3	3,704.0	3,643.6	13.1	13.1	118.81	-112.5	451.5	40.6	19.7	20.96	1.938 Caution - Monitor Closely		
3,800.0	3,735.7	3,804.0	3,740.4	13.5	13.5	119.81	-118.2	475.8	42.8	21.1	21.68	1.973 Caution - Monitor Closely		
3,900.0	3,832.1	3,903.9	3,837.3	14.0	14.0	120.72	-123.9	500.2	45.0	22.6	22.42	2.006 Caution - Monitor Closely		
4,000.0	3,928.5	4,003.9	3,934.1	14.4	14.4	121.54	-129.6	524.5	47.2	24.0	23.15	2.037 Caution - Monitor Closely		
4,100.0	4,024.9	4,103.9	4,030.9	14.9	14.9	122.29	-135.2	548.8	49.4	25.5	23.90	2.066 Caution - Monitor Closely		
4,200.0	4,121.3	4,203.9	4,127.7	15.3	15.3	122.97	-140.9	573.2	51.6	26.9	24.65	2.092 Caution - Monitor Closely		
4,300.0	4,217.7	4,303.8	4,224.5	15.8	15.8	123.60	-146.6	597.5	53.8	28.4	25.41	2.117 Caution - Monitor Closely		
4,400.0	4,314.1	4,403.8	4,321.3	16.2	16.2	124.18	-152.3	621.8	56.0	29.8	26.17	2.140 Caution - Monitor Closely		
4,500.0	4,410.5	4,503.8	4,418.1	16.7	16.7	124.72	-157.9	646.2	58.2	31.3	26.94	2.162 Caution - Monitor Closely		
4,600.0	4,506.9	4,603.8	4,514.9	17.2	17.1	125.21	-163.6	670.5	60.5	32.8	27.71	2.182 Caution - Monitor Closely		
4,700.0	4,603.3	4,703.7	4,611.7	17.6	17.6	125.67	-169.3	694.8	62.7	34.2	28.48	2.201 Caution - Monitor Closely		
4,800.0	4,699.7	4,803.7	4,708.5	18.1	18.1	126.10	-175.0	719.1	64.9	35.7	29.26	2.219 Caution - Monitor Closely		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - _ORE DIGGER FEDERAL 604H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:								
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre	Between	Between	No-Go	Separation	Warning		
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Distance	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
4,900.0	4,796.1	4,903.7	4,805.3	18.6	18.5	126.50	-180.6	743.5	67.2	37.1	30.04	2.236	Caution - Monitor Closely	
5,000.0	4,892.5	5,003.7	4,902.1	19.0	19.0	126.87	-186.3	767.8	69.4	38.6	30.83	2.252	Caution - Monitor Closely	
5,100.0	4,988.9	5,103.6	4,998.9	19.5	19.5	127.22	-192.0	792.1	71.7	40.1	31.61	2.267	Caution - Monitor Closely	
5,200.0	5,085.3	5,203.6	5,095.7	20.0	20.0	127.55	-197.7	816.5	73.9	41.5	32.40	2.282	Caution - Monitor Closely	
5,300.0	5,181.7	5,303.6	5,192.5	20.5	20.4	127.86	-203.3	840.8	76.2	43.0	33.19	2.295	Caution - Monitor Closely	
5,400.0	5,278.1	5,403.6	5,289.3	20.9	20.9	128.15	-209.0	865.1	78.4	44.5	33.99	2.308	Caution - Monitor Closely	
5,500.0	5,374.5	5,503.5	5,386.1	21.4	21.4	128.43	-214.7	889.5	80.7	45.9	34.78	2.320	Caution - Monitor Closely	
5,600.0	5,470.9	5,603.5	5,482.9	21.9	21.9	128.69	-220.4	913.8	83.0	47.4	35.58	2.331	Caution - Monitor Closely	
5,700.0	5,567.3	5,703.5	5,579.7	22.4	22.3	128.94	-226.0	938.1	85.2	48.8	36.38	2.342	Caution - Monitor Closely	
5,800.0	5,663.7	5,803.4	5,676.5	22.9	22.8	129.17	-231.7	962.4	87.5	50.3	37.18	2.353	Caution - Monitor Closely	
5,900.0	5,760.1	5,903.4	5,773.3	23.3	23.3	129.39	-237.4	986.8	89.7	51.8	37.98	2.363	Caution - Monitor Closely	
6,000.0	5,856.5	6,003.4	5,870.1	23.8	23.8	129.61	-243.1	1,011.1	92.0	53.2	38.79	2.372	Caution - Monitor Closely	
6,100.0	5,952.9	6,103.4	5,966.9	24.3	24.2	129.81	-248.7	1,035.4	94.3	54.7	39.59	2.381	Caution - Monitor Closely	
6,200.0	6,049.3	6,203.3	6,063.7	24.8	24.7	130.00	-254.4	1,059.8	96.5	56.1	40.40	2.390	Caution - Monitor Closely	
6,300.0	6,145.7	6,303.3	6,160.5	25.3	25.2	130.18	-260.1	1,084.1	98.8	57.6	41.21	2.398	Caution - Monitor Closely	
6,400.0	6,242.1	6,403.3	6,257.3	25.8	25.7	130.36	-265.8	1,108.4	101.1	59.1	42.01	2.406	Caution - Monitor Closely	
6,500.0	6,338.5	6,503.3	6,354.1	26.3	26.2	130.52	-271.4	1,132.8	103.3	60.5	42.82	2.413	Caution - Monitor Closely	
6,600.0	6,434.9	6,603.2	6,450.9	26.7	26.7	130.68	-277.1	1,157.1	105.6	62.0	43.63	2.421	Caution - Monitor Closely	
6,643.3	6,476.6	6,646.5	6,492.8	26.9	26.9	130.75	-279.6	1,167.6	106.6	62.6	43.98	2.424	Caution - Monitor Closely	
6,700.0	6,531.4	6,703.2	6,547.7	27.2	27.1	130.73	-282.8	1,181.4	107.7	63.3	44.38	2.427	Caution - Monitor Closely	
6,800.0	6,628.3	6,803.2	6,644.5	27.7	27.6	130.15	-288.5	1,205.8	108.8	63.9	44.91	2.422	Caution - Monitor Closely	
6,900.0	6,725.6	6,903.2	6,741.3	28.2	28.1	128.86	-294.1	1,230.1	108.7	63.6	45.14	2.409	Caution - Monitor Closely	
7,000.0	6,823.2	7,003.1	6,838.1	28.6	28.6	126.82	-299.8	1,254.4	107.7	62.7	45.05	2.391	Caution - Monitor Closely	
7,100.0	6,921.3	7,102.9	6,934.7	29.1	29.1	123.98	-305.5	1,278.7	105.8	61.2	44.60	2.373	Caution - Monitor Closely	
7,200.0	7,019.7	7,202.7	7,031.3	29.5	29.6	120.20	-311.1	1,303.0	103.3	59.6	43.74	2.362	Caution - Monitor Closely	
7,300.0	7,118.3	7,302.3	7,127.7	30.0	30.0	115.38	-316.8	1,327.2	100.5	58.1	42.48	2.367	Caution - Monitor Closely	
7,400.0	7,217.3	7,401.7	7,224.0	30.4	30.5	109.38	-322.4	1,351.4	97.9	57.0	40.93	2.392	Caution - Monitor Closely	
7,500.0	7,316.4	7,500.6	7,319.9	30.8	31.0	102.62	-327.9	1,374.7	96.1	56.6	39.50	2.433	Caution - Monitor Closely	
7,587.2	7,403.1	7,586.9	7,404.3	31.2	31.4	97.27	-332.1	1,392.7	95.7	56.8	38.87	2.462	Caution - Monitor Closely	
7,600.0	7,415.8	7,599.7	7,416.8	31.3	31.5	96.54	-332.7	1,395.2	95.7	56.9	38.83	2.465	Caution - Monitor Closely	
7,700.0	7,515.4	7,699.3	7,514.8	31.6	31.9	91.39	-336.7	1,412.5	96.2	57.4	38.82	2.479	Caution - Monitor Closely	
7,800.0	7,615.1	7,799.3	7,613.7	32.0	32.4	87.25	-340.0	1,426.7	97.2	58.0	39.23	2.477	Caution - Monitor Closely	
7,900.0	7,714.9	7,899.6	7,713.4	32.4	32.8	84.11	-342.6	1,437.8	98.3	58.5	39.82	2.468	Caution - Monitor Closely	
8,000.0	7,814.8	8,000.1	7,813.6	32.7	33.2	81.94	-344.4	1,445.5	99.2	58.9	40.38	2.458	Caution - Monitor Closely	
8,100.0	7,914.8	8,100.8	7,914.2	33.0	33.5	80.72	-345.4	1,450.0	99.9	59.1	40.79	2.448	Caution - Monitor Closely	
8,185.2	8,000.0	8,186.6	8,000.0	33.1	33.7	-180.00	-345.7	1,451.2	100.0	59.1	40.95	2.443	Caution - Monitor Closely	
8,190.1	8,004.9	8,191.6	8,004.9	33.1	33.7	180.00	-345.7	1,451.2	100.0	59.1	40.95	2.443	Caution - Monitor Closely	
8,200.0	8,014.8	8,201.5	8,014.8	33.1	33.7	180.00	-345.7	1,451.2	100.0	59.1	40.95	2.442	Caution - Monitor Closely	
8,300.0	8,114.8	8,301.5	8,114.8	33.1	33.7	180.00	-345.7	1,451.2	100.0	59.0	41.07	2.436	Caution - Monitor Closely	
8,400.0	8,214.8	8,401.5	8,214.8	33.1	33.7	180.00	-345.7	1,451.2	100.0	58.9	41.16	2.430	Caution - Monitor Closely	
8,500.0	8,314.8	8,501.5	8,314.8	33.2	33.7	180.00	-345.7	1,451.2	100.0	58.8	41.25	2.425	Caution - Monitor Closely	
8,600.0	8,414.8	8,601.5	8,414.8	33.2	33.8	180.00	-345.7	1,451.2	100.0	58.7	41.34	2.420	Caution - Monitor Closely	
8,700.0	8,514.8	8,701.5	8,514.8	33.2	33.8	180.00	-345.7	1,451.2	100.0	58.6	41.43	2.414	Caution - Monitor Closely	
8,800.0	8,614.8	8,801.5	8,614.8	33.2	33.8	180.00	-345.7	1,451.2	100.0	58.5	41.52	2.409	Caution - Monitor Closely	
8,900.0	8,714.8	8,901.5	8,714.8	33.3	33.8	180.00	-345.7	1,451.2	100.0	58.4	41.61	2.404	Caution - Monitor Closely	
9,000.0	8,814.8	9,001.5	8,814.8	33.3	33.9	180.00	-345.7	1,451.2	100.0	58.3	41.70	2.399	Caution - Monitor Closely	
9,100.0	8,914.8	9,101.5	8,914.8	33.3	33.9	180.00	-345.7	1,451.2	100.0	58.2	41.79	2.393	Caution - Monitor Closely	
9,200.0	9,014.8	9,201.5	9,014.8	33.3	33.9	180.00	-345.7	1,451.2	100.0	58.1	41.88	2.388	Caution - Monitor Closely	
9,300.0	9,114.8	9,301.5	9,114.8	33.4	33.9	180.00	-345.7	1,451.2	100.0	58.0	41.98	2.383	Caution - Monitor Closely	
9,400.0	9,214.8	9,401.5	9,214.8	33.4	34.0	180.00	-345.7	1,451.2	100.0	58.0	42.07	2.377	Caution - Monitor Closely	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well_ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - _ORE DIGGER FEDERAL 604H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
9,500.0	9,314.8	9,501.5	9,314.8	33.4	34.0	180.00	-345.7	1,451.2	100.0	57.9	42.16	2.372	Caution - Monitor Closely	
9,600.0	9,414.8	9,601.5	9,414.8	33.4	34.0	180.00	-345.7	1,451.2	100.0	57.8	42.26	2.367	Caution - Monitor Closely	
9,700.0	9,514.8	9,701.5	9,514.8	33.5	34.0	180.00	-345.7	1,451.2	100.0	57.7	42.35	2.362	Caution - Monitor Closely	
9,800.0	9,614.8	9,801.5	9,614.8	33.5	34.1	180.00	-345.7	1,451.2	100.0	57.6	42.45	2.356	Caution - Monitor Closely	
9,900.0	9,714.8	9,901.5	9,714.8	33.5	34.1	180.00	-345.7	1,451.2	100.0	57.5	42.54	2.351	Caution - Monitor Closely	
10,000.0	9,814.8	10,001.5	9,814.8	33.5	34.1	180.00	-345.7	1,451.2	100.0	57.4	42.64	2.346	Caution - Monitor Closely	
10,100.0	9,914.8	10,101.5	9,914.8	33.6	34.1	180.00	-345.7	1,451.2	100.0	57.3	42.74	2.340	Caution - Monitor Closely	
10,200.0	10,014.8	10,201.5	10,014.8	33.6	34.2	180.00	-345.7	1,451.2	100.0	57.2	42.83	2.335	Caution - Monitor Closely	
10,301.7	10,116.5	10,303.1	10,116.5	33.6	34.2	180.00	-345.7	1,451.2	100.0	57.1	42.93	2.330	Caution - Monitor Closely	
10,325.0	10,139.8	10,326.4	10,139.8	33.6	34.2	-179.62	-345.7	1,451.2	100.6	57.6	42.94	2.342	Caution - Monitor Closely	
10,350.0	10,164.7	10,351.4	10,164.7	33.6	34.2	-179.63	-345.7	1,451.2	102.5	59.5	42.95	2.386	Caution - Monitor Closely	
10,375.0	10,189.5	10,376.2	10,189.5	33.6	34.2	-179.64	-345.7	1,451.2	105.6	62.7	42.95	2.460	Caution - Monitor Closely	
10,400.0	10,214.1	10,400.8	10,214.1	33.6	34.2	-179.65	-345.7	1,451.2	110.1	67.2	42.95	2.564	Normal Operations	
10,425.0	10,238.4	10,425.1	10,238.4	33.6	34.2	-179.66	-345.7	1,451.2	115.9	72.9	42.95	2.697	Normal Operations	
10,450.0	10,262.4	10,449.1	10,262.4	33.6	34.2	-179.68	-345.7	1,451.2	122.9	79.9	42.95	2.861	Normal Operations	
10,475.0	10,286.0	10,472.7	10,286.0	33.5	34.2	-179.69	-345.7	1,451.2	131.1	88.2	42.96	3.053		
10,500.0	10,309.2	10,495.8	10,309.2	33.5	34.2	-179.71	-345.7	1,451.2	140.6	97.7	42.96	3.273		
10,525.0	10,331.8	10,518.4	10,331.8	33.5	34.2	-179.72	-345.7	1,451.2	151.3	108.3	42.96	3.522		
10,550.0	10,353.8	10,540.4	10,353.8	33.5	34.2	-179.73	-345.7	1,451.2	163.1	120.2	42.96	3.798		
10,575.0	10,375.1	10,561.8	10,375.1	33.5	34.3	-179.74	-345.7	1,451.2	176.1	133.2	42.96	4.100		
10,600.0	10,395.8	10,582.4	10,395.8	33.5	34.3	-179.75	-345.7	1,451.2	190.2	147.3	42.97	4.427		
10,625.0	10,415.7	10,602.3	10,415.7	33.5	34.3	-179.76	-345.7	1,451.2	205.4	162.4	42.97	4.779		
10,650.0	10,434.7	10,621.4	10,434.7	33.5	34.3	-179.77	-345.7	1,451.2	221.5	178.6	42.97	5.155		
10,675.0	10,452.9	10,639.6	10,452.9	33.5	34.3	-179.78	-345.7	1,451.2	238.7	195.7	42.98	5.554		
10,700.0	10,470.2	10,656.8	10,470.2	33.4	34.3	-179.78	-345.7	1,451.2	256.7	213.8	42.98	5.974		
10,725.0	10,486.5	10,673.1	10,486.5	33.4	34.3	-179.78	-345.7	1,451.2	275.7	232.7	42.98	6.414		
10,750.0	10,501.8	10,688.4	10,501.8	33.4	34.3	-179.78	-345.7	1,451.2	295.5	252.5	42.99	6.874		
10,775.0	10,516.0	10,702.7	10,516.0	33.4	34.3	-179.78	-345.7	1,451.2	316.0	273.0	42.99	7.351		
10,800.0	10,529.1	10,715.8	10,529.1	33.4	34.3	-179.78	-345.7	1,451.2	337.3	294.3	43.00	7.845		
10,825.0	10,541.2	10,727.8	10,541.2	33.4	34.3	-179.77	-345.7	1,451.2	359.2	316.2	43.00	8.354		
10,850.0	10,552.0	10,738.6	10,552.0	33.5	34.3	-179.76	-345.7	1,451.2	381.7	338.7	43.00	8.877		
10,875.0	10,561.6	10,748.3	10,561.6	33.5	34.3	-179.74	-345.7	1,451.2	404.8	361.8	43.01	9.412		
10,900.0	10,570.1	10,756.7	10,570.1	33.5	34.3	-179.72	-345.7	1,451.2	428.3	385.3	43.01	9.958		
10,925.0	10,577.3	10,763.9	10,577.3	33.5	34.3	-179.68	-345.7	1,451.2	452.3	409.3	43.02	10.514		
10,950.0	10,583.2	10,769.8	10,583.2	33.5	34.3	-179.62	-345.7	1,451.2	476.6	433.5	43.02	11.077		
10,975.0	10,587.8	10,774.5	10,587.8	33.5	34.3	-179.53	-345.7	1,451.2	501.1	458.1	43.02	11.647		
11,000.0	10,591.2	10,777.8	10,591.2	33.5	34.3	-179.33	-345.7	1,451.2	525.9	482.9	43.03	12.222		
11,025.0	10,593.2	10,779.9	10,593.2	33.6	34.3	-178.77	-345.7	1,451.2	550.8	507.8	43.03	12.800		
11,050.0	10,594.0	10,780.6	10,594.0	33.6	34.3	-162.01	-345.7	1,451.2	575.8	532.8	43.03	13.380		
11,057.1	10,593.9	10,780.6	10,593.9	33.6	34.3	-5.67	-345.7	1,451.2	582.9	539.9	43.03	13.546		
11,100.0	10,593.4	10,780.1	10,593.4	33.6	34.3	-5.28	-345.7	1,451.2	625.8	582.8	43.04	14.540		
11,200.0	10,592.3	12,031.1	11,311.9	33.8	34.5	-179.95	388.7	1,446.4	719.7	668.9	50.75	14.182		
11,300.0	10,591.2	12,131.1	11,310.7	33.9	34.7	-179.95	488.7	1,445.7	719.6	668.1	51.52	13.969		
11,400.0	10,590.0	12,231.1	11,309.5	34.1	34.9	-179.95	588.7	1,445.1	719.5	667.2	52.32	13.753		
11,500.0	10,588.9	12,331.1	11,308.3	34.3	35.1	-179.95	688.7	1,444.4	719.5	666.3	53.16	13.535		
11,600.0	10,587.7	12,431.1	11,307.1	34.6	35.4	-179.95	788.7	1,443.8	719.4	665.4	54.03	13.316		
11,700.0	10,586.6	12,531.1	11,305.9	34.9	35.7	-179.95	888.6	1,443.1	719.4	664.4	54.93	13.097		
11,800.0	10,585.4	12,631.1	11,304.7	35.2	36.0	-179.95	988.6	1,442.4	719.3	663.5	55.85	12.878		
11,900.0	10,584.3	12,731.1	11,303.5	35.5	36.3	-179.95	1,088.6	1,441.8	719.3	662.4	56.81	12.661		
12,000.0	10,583.2	12,831.1	11,302.3	35.8	36.7	-179.96	1,188.6	1,441.1	719.2	661.4	57.79	12.445		
12,100.0	10,582.0	12,931.1	11,301.1	36.2	37.1	-179.96	1,288.6	1,440.5	719.1	660.3	58.80	12.231		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - _ORE DIGGER FEDERAL 604H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
12,200.0	10,580.9	13,031.1	11,299.9	36.6	37.5	-179.96	1,388.6	1,439.8	719.1	659.3	59.83	12.019		
12,300.0	10,579.7	13,131.1	11,298.7	37.0	37.9	-179.96	1,488.6	1,439.2	719.0	658.1	60.88	11.811		
12,400.0	10,578.6	13,231.1	11,297.5	37.4	38.3	-179.96	1,588.6	1,438.5	719.0	657.0	61.95	11.606		
12,500.0	10,577.4	13,331.1	11,296.3	37.9	38.8	-179.96	1,688.6	1,437.9	718.9	655.9	63.04	11.404		
12,600.0	10,576.3	13,431.1	11,295.1	38.3	39.3	-179.96	1,788.6	1,437.2	718.8	654.7	64.15	11.205		
12,700.0	10,575.2	13,531.1	11,293.9	38.8	39.7	-179.96	1,888.6	1,436.5	718.8	653.5	65.28	11.010		
12,800.0	10,574.0	13,631.1	11,292.7	39.3	40.3	-179.96	1,988.5	1,435.9	718.7	652.3	66.43	10.820		
12,900.0	10,572.9	13,731.1	11,291.5	39.8	40.8	-179.96	2,088.5	1,435.2	718.7	651.1	67.59	10.633		
13,000.0	10,571.7	13,831.1	11,290.3	40.4	41.3	-179.96	2,188.5	1,434.6	718.6	649.8	68.77	10.450		
13,100.0	10,570.6	13,931.1	11,289.1	40.9	41.9	-179.96	2,288.5	1,433.9	718.5	648.6	69.96	10.271		
13,200.0	10,569.4	14,031.1	11,287.9	41.5	42.5	-179.96	2,388.5	1,433.3	718.5	647.3	71.16	10.096		
13,300.0	10,568.3	14,131.1	11,286.7	42.1	43.0	-179.96	2,488.5	1,432.6	718.4	646.0	72.38	9.925		
13,400.0	10,567.2	14,231.1	11,285.5	42.7	43.6	-179.96	2,588.5	1,432.0	718.4	644.8	73.62	9.758		
13,500.0	10,566.0	14,331.1	11,284.3	43.3	44.3	-179.96	2,688.5	1,431.3	718.3	643.5	74.86	9.596		
13,600.0	10,564.9	14,431.1	11,283.1	43.9	44.9	-179.96	2,788.5	1,430.7	718.3	642.1	76.11	9.437		
13,700.0	10,563.7	14,531.1	11,281.9	44.6	45.5	-179.96	2,888.5	1,430.0	718.2	640.8	77.38	9.282		
13,800.0	10,562.6	14,631.1	11,280.7	45.2	46.2	-179.96	2,988.5	1,429.3	718.1	639.5	78.65	9.130		
13,900.0	10,561.4	14,731.1	11,279.5	45.9	46.8	-179.96	3,088.4	1,428.7	718.1	638.1	79.94	8.983		
14,000.0	10,560.3	14,831.1	11,278.3	46.6	47.5	-179.97	3,188.4	1,428.0	718.0	636.8	81.23	8.839		
14,100.0	10,559.2	14,931.1	11,277.1	47.2	48.2	-179.97	3,288.4	1,427.4	718.0	635.4	82.54	8.699		
14,200.0	10,558.0	15,031.1	11,275.9	47.9	48.9	-179.97	3,388.4	1,426.7	717.9	634.1	83.85	8.562		
14,300.0	10,556.9	15,131.1	11,274.7	48.6	49.6	-179.97	3,488.4	1,426.1	717.8	632.7	85.17	8.429		
14,400.0	10,555.7	15,231.1	11,273.5	49.3	50.3	-179.97	3,588.4	1,425.4	717.8	631.3	86.49	8.299		
14,500.0	10,554.6	15,331.1	11,272.3	50.1	51.0	-179.97	3,688.4	1,424.8	717.7	629.9	87.83	8.172		
14,600.0	10,553.4	15,431.1	11,271.1	50.8	51.7	-179.97	3,788.4	1,424.1	717.7	628.5	89.17	8.048		
14,700.0	10,552.3	15,531.1	11,269.9	51.5	52.5	-179.97	3,888.4	1,423.4	717.6	627.1	90.52	7.928		
14,800.0	10,551.2	15,631.1	11,268.7	52.3	53.2	-179.97	3,988.4	1,422.8	717.6	625.7	91.87	7.811		
14,900.0	10,550.0	15,731.1	11,267.5	53.0	54.0	-179.97	4,088.3	1,422.1	717.5	624.3	93.23	7.696		
15,000.0	10,548.9	15,831.1	11,266.3	53.8	54.7	-179.97	4,188.3	1,421.5	717.4	622.8	94.60	7.584		
15,100.0	10,547.7	15,931.1	11,265.1	54.6	55.5	-179.97	4,288.3	1,420.8	717.4	621.4	95.97	7.475		
15,200.0	10,546.6	16,031.1	11,263.9	55.3	56.3	-179.97	4,388.3	1,420.2	717.3	620.0	97.34	7.369		
15,300.0	10,545.4	16,131.1	11,262.6	56.1	57.0	-179.97	4,488.3	1,419.5	717.3	618.5	98.73	7.265		
15,400.0	10,544.3	16,231.1	11,261.4	56.9	57.8	-179.97	4,588.3	1,418.9	717.2	617.1	100.11	7.164		
15,500.0	10,543.2	16,331.1	11,260.2	57.7	58.6	-179.97	4,688.3	1,418.2	717.1	615.6	101.50	7.065		
15,600.0	10,542.0	16,431.1	11,259.0	58.5	59.4	-179.97	4,788.3	1,417.6	717.1	614.2	102.90	6.969		
15,700.0	10,540.9	16,531.1	11,257.8	59.3	60.2	-179.97	4,888.3	1,416.9	717.0	612.7	104.30	6.875		
15,800.0	10,539.7	16,631.1	11,256.6	60.1	61.0	-179.97	4,988.3	1,416.2	717.0	611.3	105.71	6.783		
15,900.0	10,538.6	16,731.1	11,255.4	60.9	61.8	-179.97	5,088.3	1,415.6	716.9	609.8	107.11	6.693		
16,000.0	10,537.4	16,831.1	11,254.2	61.7	62.6	-179.98	5,188.2	1,414.9	716.8	608.3	108.53	6.605		
16,100.0	10,536.3	16,931.1	11,253.0	62.5	63.5	-179.98	5,288.2	1,414.3	716.8	606.8	109.94	6.520		
16,200.0	10,535.2	17,031.1	11,251.8	63.4	64.3	-179.98	5,388.2	1,413.6	716.7	605.4	111.36	6.436		
16,300.0	10,534.0	17,131.1	11,250.6	64.2	65.1	-179.98	5,488.2	1,413.0	716.7	603.9	112.78	6.354		
16,400.0	10,532.9	17,231.1	11,249.4	65.0	65.9	-179.98	5,588.2	1,412.3	716.6	602.4	114.21	6.275		
16,500.0	10,531.7	17,331.1	11,248.2	65.9	66.8	-179.98	5,688.2	1,411.7	716.6	600.9	115.64	6.196		
16,600.0	10,530.6	17,431.1	11,247.0	66.7	67.6	-179.98	5,788.2	1,411.0	716.5	599.4	117.07	6.120		
16,700.0	10,529.4	17,531.1	11,245.8	67.5	68.5	-179.98	5,888.2	1,410.4	716.4	597.9	118.51	6.046		
16,800.0	10,528.3	17,631.1	11,244.6	68.4	69.3	-179.98	5,988.2	1,409.7	716.4	596.4	119.94	5.973		
16,900.0	10,527.2	17,731.1	11,243.4	69.2	70.2	-179.98	6,088.2	1,409.0	716.3	594.9	121.38	5.901		
17,000.0	10,526.0	17,831.1	11,242.2	70.1	71.0	-179.98	6,188.2	1,408.4	716.3	593.4	122.83	5.831		
17,100.0	10,524.9	17,931.1	11,241.0	70.9	71.9	-179.98	6,288.1	1,407.7	716.2	591.9	124.27	5.763		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - _ORE DIGGER FEDERAL 604H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
17,200.0	10,523.7	18,031.1	11,239.8	71.8	72.7	-179.98	6,388.1	1,407.1	716.1	590.4	125.72	5.696		
17,300.0	10,522.6	18,131.1	11,238.6	72.7	73.6	-179.98	6,488.1	1,406.4	716.1	588.9	127.17	5.631		
17,400.0	10,521.4	18,231.1	11,237.4	73.5	74.4	-179.98	6,588.1	1,405.8	716.0	587.4	128.63	5.567		
17,500.0	10,520.3	18,331.1	11,236.2	74.4	75.3	-179.98	6,688.1	1,405.1	716.0	585.9	130.08	5.504		
17,600.0	10,519.2	18,431.1	11,235.0	75.3	76.2	-179.98	6,788.1	1,404.5	715.9	584.4	131.54	5.443		
17,700.0	10,518.0	18,531.1	11,233.8	76.2	77.1	-179.98	6,888.1	1,403.8	715.8	582.9	133.00	5.382		
17,800.0	10,516.9	18,631.1	11,232.6	77.0	77.9	-179.98	6,988.1	1,403.1	715.8	581.3	134.46	5.324		
17,900.0	10,515.7	18,731.1	11,231.4	77.9	78.8	-179.98	7,088.1	1,402.5	715.7	579.8	135.92	5.266		
18,000.0	10,514.6	18,831.1	11,230.2	78.8	79.7	-179.99	7,188.1	1,401.8	715.7	578.3	137.39	5.209		
18,100.0	10,513.4	18,931.1	11,229.0	79.7	80.6	-179.99	7,288.0	1,401.2	715.6	576.8	138.85	5.154		
18,200.0	10,512.3	19,031.1	11,227.8	80.6	81.5	-179.99	7,388.0	1,400.5	715.6	575.2	140.32	5.099		
18,300.0	10,511.2	19,131.1	11,226.6	81.4	82.3	-179.99	7,488.0	1,399.9	715.5	573.7	141.79	5.046		
18,400.0	10,510.0	19,231.1	11,225.4	82.3	83.2	-179.99	7,588.0	1,399.2	715.4	572.2	143.26	4.994		
18,500.0	10,508.9	19,331.1	11,224.2	83.2	84.1	-179.99	7,688.0	1,398.6	715.4	570.6	144.74	4.943		
18,600.0	10,507.7	19,431.1	11,223.0	84.1	85.0	-179.99	7,788.0	1,397.9	715.3	569.1	146.21	4.892		
18,700.0	10,506.6	19,531.1	11,221.8	85.0	85.9	-179.99	7,888.0	1,397.3	715.3	567.6	147.69	4.843		
18,800.0	10,505.4	19,631.1	11,220.6	85.9	86.8	-179.99	7,988.0	1,396.6	715.2	566.0	149.17	4.795		
18,900.0	10,504.3	19,731.1	11,219.4	86.8	87.7	-179.99	8,088.0	1,395.9	715.1	564.5	150.65	4.747		
19,000.0	10,503.2	19,831.1	11,218.2	87.7	88.6	-179.99	8,188.0	1,395.3	715.1	563.0	152.13	4.701		
19,100.0	10,502.0	19,931.1	11,217.0	88.6	89.5	-179.99	8,288.0	1,394.6	715.0	561.4	153.61	4.655		
19,200.0	10,500.9	20,031.1	11,215.8	89.5	90.4	-179.99	8,387.9	1,394.0	715.0	559.9	155.09	4.610		
19,300.0	10,499.7	20,131.1	11,214.6	90.4	91.3	-179.99	8,487.9	1,393.3	714.9	558.3	156.58	4.566		
19,400.0	10,498.6	20,231.1	11,213.4	91.3	92.2	-179.99	8,587.9	1,392.7	714.9	556.8	158.06	4.523		
19,500.0	10,497.4	20,331.1	11,212.2	92.2	93.1	-179.99	8,687.9	1,392.0	714.8	555.2	159.55	4.480		
19,600.0	10,496.3	20,431.1	11,211.0	93.1	94.0	-179.99	8,787.9	1,391.4	714.7	553.7	161.04	4.438		
19,700.0	10,495.2	20,531.1	11,209.8	94.0	94.9	-179.99	8,887.9	1,390.7	714.7	552.1	162.53	4.397		
19,800.0	10,494.0	20,631.1	11,208.6	95.0	95.8	-179.99	8,987.9	1,390.0	714.6	550.6	164.02	4.357		
19,900.0	10,492.9	20,731.1	11,207.4	95.9	96.7	-179.99	9,087.9	1,389.4	714.6	549.1	165.51	4.317		
20,000.0	10,491.7	20,831.1	11,206.2	96.8	97.7	-180.00	9,187.9	1,388.7	714.5	547.5	167.00	4.278		
20,100.0	10,490.6	20,931.1	11,205.0	97.7	98.6	-180.00	9,287.9	1,388.1	714.4	545.9	168.49	4.240		
20,200.0	10,489.4	21,031.1	11,203.8	98.6	99.5	-180.00	9,387.9	1,387.4	714.4	544.4	169.99	4.203		
20,300.0	10,488.3	21,131.1	11,202.6	99.5	100.4	-180.00	9,487.8	1,386.8	714.3	542.8	171.48	4.166		
20,400.0	10,487.2	21,231.1	11,201.4	100.5	101.3	-180.00	9,587.8	1,386.1	714.3	541.3	172.98	4.129		
20,500.0	10,486.0	21,331.1	11,200.2	101.4	102.2	-180.00	9,687.8	1,385.5	714.2	539.7	174.48	4.093		
20,600.0	10,484.9	21,431.1	11,199.0	102.3	103.2	-180.00	9,787.8	1,384.8	714.1	538.2	175.97	4.058		
20,700.0	10,483.7	21,531.1	11,197.8	103.2	104.1	-180.00	9,887.8	1,384.2	714.1	536.6	177.47	4.024		
20,800.0	10,482.6	21,631.1	11,196.6	104.1	105.0	-180.00	9,987.8	1,383.5	714.0	535.1	178.97	3.990		
20,900.0	10,481.4	21,731.1	11,195.4	105.1	105.9	-180.00	10,087.8	1,382.8	714.0	533.5	180.47	3.956		
20,930.9	10,481.1	21,761.6	11,195.0	105.3	106.2	180.00	10,118.2	1,382.6	714.0	533.0	180.92	3.946		
20,939.0	10,481.0	21,761.6	11,195.0	105.4	106.2	180.00	10,118.2	1,382.6	714.0	533.2	180.79	3.949		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well_ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - MINIS 1 FED COM 2BS 11H - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: 179-r.5 MWD		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance			Offset Well Error: 3.0 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
6,100.0	5,952.9	6,028.1	6,025.2	24.3	13.4	9.43	-508.4	2,051.7	999.5	960.4	39.05	25.597		
6,200.0	6,049.3	6,124.7	6,121.7	24.8	13.3	9.72	-509.6	2,053.3	975.2	935.6	39.57	24.644		
6,300.0	6,145.7	6,221.1	6,218.1	25.3	13.2	10.04	-511.1	2,054.8	950.9	910.8	40.10	23.713		
6,400.0	6,242.1	6,318.7	6,315.7	25.8	13.1	10.38	-512.5	2,056.5	926.7	886.1	40.63	22.811		
6,500.0	6,338.5	6,417.4	6,414.4	26.3	13.1	10.73	-513.7	2,058.0	902.3	861.2	41.15	21.928		
6,600.0	6,434.9	6,514.6	6,511.6	26.7	13.0	11.10	-514.9	2,059.4	877.9	836.2	41.69	21.058		
6,643.3	6,476.6	6,556.9	6,553.8	26.9	13.0	11.27	-515.4	2,060.0	867.3	825.4	41.91	20.693		
6,700.0	6,531.4	6,612.7	6,609.6	27.2	13.0	11.46	-516.0	2,060.7	853.7	811.5	42.21	20.227		
6,800.0	6,628.3	6,710.1	6,707.0	27.7	12.9	11.78	-517.0	2,062.0	830.9	788.2	42.75	19.438		
6,900.0	6,725.6	6,810.0	6,806.9	28.2	12.9	12.13	-518.3	2,063.1	809.8	766.5	43.27	18.717		
7,000.0	6,823.2	6,906.8	6,903.7	28.6	12.9	12.47	-519.5	2,064.0	790.2	746.3	43.81	18.035		
7,100.0	6,921.3	7,006.4	7,003.2	29.1	12.9	12.84	-521.1	2,064.9	772.4	728.0	44.33	17.422		
7,200.0	7,019.7	7,105.4	7,102.3	29.5	12.9	13.18	-522.5	2,065.7	756.1	711.2	44.85	16.859		
7,300.0	7,118.3	7,211.2	7,208.0	30.0	13.0	13.42	-522.4	2,066.7	741.1	695.7	45.36	16.336		
7,400.0	7,217.3	7,310.9	7,307.7	30.4	13.0	13.43	-519.9	2,068.0	727.2	681.3	45.92	15.837		
7,500.0	7,316.4	7,408.4	7,405.2	30.8	13.0	13.41	-517.5	2,069.4	715.1	668.6	46.48	15.385		
7,600.0	7,415.8	7,507.7	7,504.5	31.3	13.0	13.38	-515.3	2,070.8	704.8	657.8	47.00	14.994		
7,700.0	7,515.4	7,606.8	7,603.5	31.6	13.1	13.31	-513.0	2,072.3	696.2	648.7	47.52	14.650		
7,800.0	7,615.1	7,704.9	7,701.6	32.0	13.1	13.22	-510.8	2,074.0	689.5	641.5	48.03	14.356		
7,900.0	7,714.9	7,808.5	7,805.1	32.4	13.1	13.12	-508.8	2,075.6	684.5	636.1	48.45	14.128		
8,000.0	7,814.8	7,918.3	7,915.0	32.7	13.2	13.13	-507.8	2,075.2	679.8	631.0	48.78	13.935		
8,100.0	7,914.8	8,019.2	8,015.8	33.0	13.3	13.17	-507.4	2,074.0	676.2	627.1	49.19	13.748		
8,185.2	8,000.0	8,104.7	8,101.3	33.1	13.4	112.78	-506.8	2,073.0	674.5	625.1	49.39	13.657		
8,200.0	8,014.8	8,119.4	8,116.0	33.1	13.5	112.78	-506.7	2,072.8	674.3	624.9	49.40	13.649		
8,300.0	8,114.8	8,219.2	8,215.8	33.1	13.6	112.76	-506.0	2,071.6	672.9	623.4	49.52	13.590		
8,400.0	8,214.8	8,320.1	8,316.7	33.1	13.7	112.70	-504.9	2,070.6	671.5	621.9	49.62	13.535		
8,500.0	8,314.8	8,418.4	8,415.0	33.2	13.9	112.63	-503.6	2,069.7	670.1	620.4	49.75	13.471		
8,600.0	8,414.8	8,516.7	8,513.3	33.2	14.0	112.56	-502.4	2,069.0	669.1	619.2	49.87	13.415		
8,700.0	8,514.8	8,614.6	8,611.2	33.2	14.1	112.52	-501.7	2,068.4	668.2	618.2	50.00	13.364		
8,800.0	8,614.8	8,712.3	8,708.8	33.2	14.2	112.50	-501.2	2,068.1	667.8	617.6	50.13	13.321		
8,838.6	8,653.5	8,748.9	8,745.5	33.2	14.3	112.49	-501.1	2,068.1	667.7	617.5	50.18	13.305		
8,900.0	8,714.8	8,805.4	8,802.0	33.3	14.3	112.50	-501.3	2,068.2	667.9	617.6	50.27	13.287		
9,000.0	8,814.8	8,896.4	8,893.0	33.3	14.2	112.54	-502.2	2,069.2	669.3	618.9	50.38	13.284		
9,100.0	8,914.8	8,994.1	8,990.6	33.3	14.2	112.61	-503.9	2,071.0	671.7	621.2	50.40	13.326		
9,200.0	9,014.8	9,095.1	9,091.6	33.3	14.1	112.72	-506.0	2,072.7	674.0	623.6	50.39	13.376		
9,300.0	9,114.8	9,210.6	9,207.1	33.4	14.1	112.88	-508.2	2,073.2	675.1	624.9	50.24	13.439		
9,304.4	9,119.3	9,214.8	9,211.2	33.4	14.1	112.89	-508.3	2,073.2	675.1	624.9	50.24	13.438		
9,400.0	9,214.8	9,304.6	9,301.1	33.4	14.2	112.96	-509.2	2,073.2	675.5	625.2	50.34	13.419		
9,500.0	9,314.8	9,400.3	9,396.8	33.4	14.2	113.06	-510.7	2,073.8	676.8	626.3	50.40	13.427		
9,600.0	9,414.8	9,503.0	9,499.4	33.4	14.1	113.16	-512.3	2,074.5	678.0	627.6	50.39	13.456		
9,700.0	9,514.8	9,604.1	9,600.5	33.5	14.1	113.25	-513.7	2,075.0	679.0	628.6	50.40	13.473		
9,800.0	9,614.8	9,703.6	9,700.0	33.5	14.1	113.32	-514.9	2,075.6	680.0	629.6	50.42	13.485		
9,900.0	9,714.8	10,176.9	10,142.5	33.5	15.0	118.01	-509.6	1,947.2	654.5	610.6	43.95	14.894		
10,000.0	9,814.8	10,341.3	10,259.2	33.5	15.4	127.26	-538.6	1,836.2	598.5	556.3	42.25	14.166		
10,100.0	9,914.8	10,384.0	10,284.7	33.6	15.6	130.86	-551.2	1,804.3	543.4	500.3	43.08	12.614		
10,200.0	10,014.8	10,415.0	10,303.1	33.6	15.7	133.73	-561.9	1,781.8	497.8	453.6	44.21	11.262		
10,301.7	10,116.5	10,454.0	10,326.3	33.6	15.9	137.54	-577.2	1,754.4	464.4	419.4	45.08	10.302		
10,325.0	10,139.8	10,461.9	10,331.1	33.6	16.0	139.14	-580.5	1,749.0	459.4	414.1	45.24	10.154		
10,350.0	10,164.7	10,470.1	10,335.9	33.6	16.1	140.27	-584.0	1,743.5	455.9	410.6	45.34	10.055		
10,375.0	10,189.5	10,478.0	10,340.6	33.6	16.1	141.21	-587.6	1,738.2	454.6	409.2	45.39	10.015		
10,377.8	10,192.3	10,478.0	10,340.6	33.6	16.1	141.21	-587.6	1,738.2	454.6	409.1	45.41	10.009 CC, ES, SF		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - MINIS 1 FED COM 2BS 11H - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: 179-r.5 MWD													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance			Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)			
10,400.0	10,214.1	10,485.8	10,345.2	33.6	16.2	142.00	-591.1	1,733.0	455.4	410.0	45.38	10.036		
10,425.0	10,238.4	10,493.3	10,349.6	33.6	16.2	142.61	-594.6	1,728.1	458.4	413.1	45.31	10.116		
10,450.0	10,262.4	10,500.1	10,353.7	33.6	16.3	143.01	-597.8	1,723.6	463.6	418.4	45.22	10.252		
10,475.0	10,286.0	10,509.0	10,358.9	33.5	16.3	143.50	-602.1	1,717.8	470.9	425.9	45.01	10.461		
10,500.0	10,309.2	10,509.0	10,358.9	33.5	16.3	142.77	-602.1	1,717.8	480.2	435.2	45.01	10.669		
10,525.0	10,331.8	10,517.5	10,363.8	33.5	16.4	142.90	-606.3	1,712.3	491.5	446.8	44.74	10.985		
10,550.0	10,353.8	10,522.1	10,366.5	33.5	16.4	142.37	-608.5	1,709.4	504.6	460.0	44.56	11.325		
10,575.0	10,375.1	10,526.0	10,368.8	33.5	16.5	141.53	-610.5	1,706.9	519.3	475.0	44.37	11.706		
10,600.0	10,395.8	10,529.2	10,370.7	33.5	16.5	140.36	-612.1	1,704.8	535.6	491.4	44.18	12.123		
10,625.0	10,415.7	10,531.7	10,372.2	33.5	16.5	138.79	-613.4	1,703.2	553.2	509.2	44.00	12.573		
10,650.0	10,434.7	10,533.6	10,373.3	33.5	16.5	136.78	-614.3	1,702.1	571.9	528.1	43.83	13.050		
10,675.0	10,452.9	10,534.8	10,374.0	33.5	16.5	134.23	-614.9	1,701.3	591.8	548.1	43.67	13.551		
10,700.0	10,470.2	10,541.0	10,377.6	33.4	16.6	132.05	-618.1	1,697.4	612.5	569.1	43.41	14.110		
10,725.0	10,486.5	10,541.0	10,377.6	33.4	16.6	128.20	-618.1	1,697.4	634.0	590.7	43.28	14.648		
10,750.0	10,501.8	10,541.0	10,377.6	33.4	16.6	123.60	-618.1	1,697.4	656.1	612.9	43.15	15.204		
10,775.0	10,516.0	10,533.4	10,373.2	33.4	16.5	116.61	-614.2	1,702.1	678.6	635.5	43.16	15.725		
10,800.0	10,529.1	10,531.7	10,372.1	33.4	16.5	109.81	-613.3	1,703.3	701.6	658.6	43.06	16.296		
10,825.0	10,541.2	10,529.4	10,370.8	33.4	16.5	102.02	-612.2	1,704.7	724.9	681.9	42.96	16.872		
10,850.0	10,552.0	10,526.6	10,369.2	33.5	16.5	93.44	-610.8	1,706.5	748.3	705.5	42.88	17.451		
10,875.0	10,561.6	10,523.3	10,367.3	33.5	16.4	84.47	-609.2	1,708.6	771.9	729.1	42.81	18.031		
10,900.0	10,570.1	10,519.7	10,365.1	33.5	16.4	75.61	-607.3	1,710.9	795.5	752.7	42.74	18.612		
10,925.0	10,577.3	10,509.0	10,358.9	33.5	16.3	66.81	-602.1	1,717.8	819.1	776.3	42.77	19.150		
10,950.0	10,583.2	10,509.0	10,358.9	33.5	16.3	59.79	-602.1	1,717.8	842.4	799.8	42.65	19.752		
10,975.0	10,587.8	10,509.0	10,358.9	33.5	16.3	53.52	-602.1	1,717.8	865.6	823.1	42.53	20.352		
11,000.0	10,591.2	10,509.0	10,358.9	33.5	16.3	48.03	-602.1	1,717.8	888.7	846.2	42.42	20.950		
11,025.0	10,593.2	10,496.8	10,351.7	33.6	16.2	43.38	-596.3	1,725.8	911.3	868.8	42.46	21.463		
11,050.0	10,594.0	10,491.6	10,348.6	33.6	16.2	39.50	-593.8	1,729.2	933.6	891.2	42.41	22.015		
11,057.1	10,593.9	10,490.0	10,347.7	33.6	16.2	38.51	-593.1	1,730.2	939.9	897.5	42.39	22.172		
11,100.0	10,593.4	10,478.0	10,340.6	33.6	16.1	38.75	-587.6	1,738.2	977.8	935.5	42.35	23.089		

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - MINIS 1 FED HKY COM 8H - OWB - PLANNED												Offset Site Error:	0.0 usft
Survey Program: 100-r.5 MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	52.0	52.0	3.0	3.1	-142.60	-552.8	-422.7	695.9	689.4	6.49	107.163	
100.0	100.0	152.0	152.0	3.2	3.3	-142.60	-552.8	-422.7	695.9	688.9	7.00	99.426	
200.0	200.0	252.0	252.0	3.5	3.6	-142.60	-552.8	-422.7	695.9	688.4	7.43	93.625	
300.0	300.0	352.0	352.0	3.7	3.8	-142.60	-552.8	-422.7	695.9	688.0	7.84	88.735	
400.0	400.0	452.0	452.0	3.9	4.0	-142.60	-552.8	-422.7	695.9	687.6	8.23	84.524	
500.0	500.0	552.0	552.0	4.1	4.2	-142.60	-552.8	-422.7	695.9	687.3	8.61	80.844	
600.0	600.0	652.0	652.0	4.2	4.3	-142.60	-552.8	-422.7	695.9	686.9	8.97	77.589	
700.0	700.0	752.0	752.0	4.4	4.5	-142.60	-552.8	-422.7	695.9	686.6	9.32	74.682	
800.0	800.0	852.0	852.0	4.6	4.7	-142.60	-552.8	-422.7	695.9	686.2	9.66	72.063	
900.0	900.0	952.0	952.0	4.8	4.8	-142.60	-552.8	-422.7	695.9	685.9	9.99	69.687	
1,000.0	1,000.0	1,052.0	1,052.0	4.9	5.0	-142.60	-552.8	-422.7	695.9	685.6	10.31	67.518	
1,100.0	1,100.0	1,152.0	1,152.0	5.1	5.2	-142.60	-552.8	-422.7	695.9	685.3	10.62	65.527	
1,200.0	1,200.0	1,252.0	1,252.0	5.2	5.3	-142.60	-552.8	-422.7	695.9	685.0	10.93	63.690	
1,300.0	1,300.0	1,352.0	1,352.0	5.4	5.5	-142.60	-552.8	-422.7	695.9	684.7	11.23	61.989	
1,400.0	1,400.0	1,452.0	1,452.0	5.5	5.6	-142.60	-552.8	-422.7	695.9	684.4	11.52	60.407	
1,500.0	1,500.0	1,552.0	1,552.0	5.7	5.8	-142.60	-552.8	-422.7	695.9	684.1	11.81	58.930 CC, ES	
1,600.0	1,600.0	1,652.0	1,652.0	5.9	5.9	117.91	-552.8	-422.7	696.7	684.6	12.10	57.572	
1,700.0	1,699.8	1,751.8	1,751.8	6.1	6.0	118.24	-552.8	-422.7	699.2	686.8	12.38	56.455	
1,800.0	1,799.5	1,851.5	1,851.5	6.4	6.2	118.79	-552.8	-422.7	703.3	690.7	12.67	55.506	
1,900.0	1,898.7	1,950.7	1,950.7	6.6	6.3	119.55	-552.8	-422.7	709.3	696.3	12.97	54.705	
2,000.0	1,997.5	2,049.5	2,049.5	6.9	6.5	120.49	-552.8	-422.7	717.2	703.9	13.27	54.037	
2,100.0	2,095.6	2,147.6	2,147.6	7.2	6.6	121.59	-552.8	-422.7	727.2	713.6	13.60	53.488	
2,200.0	2,193.1	2,245.1	2,245.1	7.5	6.7	122.84	-552.8	-422.7	739.4	725.5	13.94	53.045	
2,271.0	2,261.7	2,313.7	2,313.7	7.7	6.8	123.81	-552.8	-422.7	749.5	735.4	14.16	52.922	
2,300.0	2,289.7	2,341.7	2,341.7	7.8	6.8	124.28	-552.8	-422.7	754.0	739.7	14.25	52.928	
2,400.0	2,386.1	2,438.1	2,438.1	8.1	7.0	125.88	-552.8	-422.7	769.6	755.0	14.62	52.658	
2,500.0	2,482.5	2,534.5	2,534.5	8.4	7.1	127.41	-552.8	-422.7	785.9	770.9	15.00	52.375	
2,600.0	2,578.9	2,630.9	2,630.9	8.7	7.2	128.89	-552.8	-422.7	802.7	787.2	15.41	52.076	
2,700.0	2,675.3	2,727.3	2,727.3	9.1	7.3	130.31	-552.8	-422.7	820.0	804.1	15.84	51.764	
2,800.0	2,771.7	2,823.7	2,823.7	9.4	7.4	131.66	-552.8	-422.7	837.8	821.5	16.29	51.440	
2,900.0	2,868.1	2,920.1	2,920.1	9.8	7.6	132.97	-552.8	-422.7	856.0	839.3	16.75	51.108	
3,000.0	2,964.5	3,016.5	3,016.5	10.2	7.7	134.22	-552.8	-422.7	874.7	857.5	17.23	50.769	
3,100.0	3,060.9	3,112.9	3,112.9	10.6	7.8	135.42	-552.8	-422.7	893.8	876.1	17.72	50.427	
3,200.0	3,157.3	3,209.3	3,209.3	11.0	7.9	136.57	-552.8	-422.7	913.3	895.0	18.24	50.082	
3,300.0	3,253.7	3,305.7	3,305.7	11.4	8.0	137.68	-552.8	-422.7	933.1	914.3	18.76	49.739	
3,400.0	3,350.1	3,402.1	3,402.1	11.8	8.1	138.73	-552.8	-422.7	953.2	933.9	19.30	49.398	
3,500.0	3,446.5	3,498.5	3,498.5	12.2	8.3	139.75	-552.8	-422.7	973.7	953.8	19.85	49.061	
3,600.0	3,542.9	3,594.9	3,594.9	12.7	8.4	140.73	-552.8	-422.7	994.4	974.0	20.41	48.729 SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	ORE DIGGER PROJECT - MINIS 1 FED HKY COM 9H - OWB - PLANNED SURVEY UNAVAILABLE											Offset Site Error:	0.0 usft
Survey Program:	100-r.5 MWD											Offset Well Error:	3.0 usft
Reference	Rule Assigned:												
Measured	Vertical	Measured	Vertical	Semi	Major	Axis	Offset Wellbore Centre		Distance		No-Go	Separation	Warning
Depth	Depth	Depth	Depth	Reference	Offset	Highside	+N/-S	+E/-W	Between	Between			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	Toolface	(usft)	(usft)	Centres	Ellipses	Distance	Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
0.0	0.0	79.0	79.0	3.0	3.1	-146.11	-657.7	-441.7	792.3	785.8	6.50	121.900	
100.0	100.0	179.0	179.0	3.2	3.3	-146.11	-657.7	-441.7	792.3	785.3	6.94	114.137	
200.0	200.0	279.0	279.0	3.5	3.5	-146.11	-657.7	-441.7	792.3	784.9	7.38	107.351	
300.0	300.0	379.0	379.0	3.7	3.7	-146.11	-657.7	-441.7	792.3	784.5	7.79	101.668	
400.0	400.0	479.0	479.0	3.9	3.9	-146.11	-657.7	-441.7	792.3	784.1	8.19	96.786	
500.0	500.0	579.0	579.0	4.1	4.1	-146.11	-657.7	-441.7	792.3	783.7	8.56	92.526	
600.0	600.0	679.0	679.0	4.2	4.3	-146.11	-657.7	-441.7	792.3	783.3	8.93	88.763	
700.0	700.0	779.0	779.0	4.4	4.5	-146.11	-657.7	-441.7	792.3	783.0	9.28	85.406	
800.0	800.0	879.0	879.0	4.6	4.6	-146.11	-657.7	-441.7	792.3	782.7	9.62	82.385	
900.0	900.0	979.0	979.0	4.8	4.8	-146.11	-657.7	-441.7	792.3	782.3	9.95	79.647	
1,000.0	1,000.0	1,079.0	1,079.0	4.9	5.0	-146.11	-657.7	-441.7	792.3	782.0	10.27	77.149	
1,100.0	1,100.0	1,179.0	1,179.0	5.1	5.1	-146.11	-657.7	-441.7	792.3	781.7	10.58	74.858	
1,200.0	1,200.0	1,279.0	1,279.0	5.2	5.3	-146.11	-657.7	-441.7	792.3	781.4	10.89	72.746	
1,300.0	1,300.0	1,379.0	1,379.0	5.4	5.4	-146.11	-657.7	-441.7	792.3	781.1	11.19	70.791	
1,400.0	1,400.0	1,479.0	1,479.0	5.5	5.6	-146.11	-657.7	-441.7	792.3	780.8	11.49	68.973	
1,500.0	1,500.0	1,579.0	1,579.0	5.7	5.7	-146.11	-657.7	-441.7	792.3	780.5	11.78	67.277 CC, ES	
1,600.0	1,600.0	1,679.0	1,679.0	5.9	5.9	114.38	-657.7	-441.7	793.0	780.9	12.07	65.723	
1,700.0	1,699.8	1,778.8	1,778.8	6.1	6.0	114.68	-657.7	-441.7	795.2	782.8	12.34	64.414	
1,800.0	1,799.5	1,878.5	1,878.5	6.4	6.2	115.18	-657.7	-441.7	798.8	786.2	12.63	63.269	
1,900.0	1,898.7	1,977.7	1,977.7	6.6	6.3	115.87	-657.7	-441.7	804.1	791.2	12.91	62.269	
2,000.0	1,997.5	2,076.5	2,076.5	6.9	6.4	116.73	-657.7	-441.7	811.1	797.9	13.21	61.397	
2,100.0	2,095.6	2,174.6	2,174.6	7.2	6.6	117.74	-657.7	-441.7	820.0	806.5	13.52	60.638	
2,200.0	2,193.1	2,272.1	2,272.1	7.5	6.7	118.90	-657.7	-441.7	830.9	817.0	13.85	59.977	
2,271.0	2,261.7	2,340.7	2,340.7	7.7	6.8	119.79	-657.7	-441.7	839.9	825.9	14.07	59.707	
2,300.0	2,289.7	2,368.7	2,368.7	7.8	6.8	120.23	-657.7	-441.7	843.9	829.8	14.15	59.655	
2,400.0	2,386.1	2,465.1	2,465.1	8.1	6.9	121.73	-657.7	-441.7	858.0	843.5	14.50	59.151	
2,500.0	2,482.5	2,561.5	2,561.5	8.4	7.1	123.17	-657.7	-441.7	872.6	857.7	14.88	58.642	
2,600.0	2,578.9	2,657.9	2,657.9	8.7	7.2	124.57	-657.7	-441.7	887.8	872.5	15.27	58.124	
2,700.0	2,675.3	2,754.3	2,754.3	9.1	7.3	125.93	-657.7	-441.7	903.5	887.8	15.69	57.599	
2,800.0	2,771.7	2,850.7	2,850.7	9.4	7.4	127.24	-657.7	-441.7	919.7	903.6	16.12	57.068	
2,900.0	2,868.1	2,947.1	2,947.1	9.8	7.5	128.51	-657.7	-441.7	936.4	919.9	16.56	56.536	
3,000.0	2,964.5	3,043.5	3,043.5	10.2	7.7	129.73	-657.7	-441.7	953.6	936.6	17.03	56.003	
3,100.0	3,060.9	3,139.9	3,139.9	10.6	7.8	130.91	-657.7	-441.7	971.2	953.6	17.51	55.473	
3,200.0	3,157.3	3,236.3	3,236.3	11.0	7.9	132.05	-657.7	-441.7	989.1	971.1	18.00	54.947 SF	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - MINIS 1 FEDERAL COM 3BS 4H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 148-r.5 MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	81.9	81.9	3.0	3.1	-133.82	-539.5	-562.3	779.3	772.8	6.49	120.103	
100.0	100.0	183.5	183.5	3.2	3.2	-133.84	-539.5	-561.8	778.9	772.0	6.88	113.144	
195.1	195.1	275.1	275.1	3.4	3.5	-133.86	-539.5	-561.4	778.6	771.3	7.31	106.571	
200.0	200.0	279.8	279.8	3.5	3.5	-133.86	-539.5	-561.4	778.6	771.3	7.33	106.197	
300.0	300.0	380.3	380.2	3.7	3.7	-133.89	-539.9	-561.2	778.8	771.0	7.72	100.888	
400.0	400.0	483.7	483.7	3.9	3.9	-133.92	-540.0	-560.7	778.5	770.4	8.12	95.850	
500.0	500.0	581.0	581.0	4.1	4.0	-133.93	-539.8	-560.4	778.1	769.7	8.41	92.477	
600.0	600.0	683.3	683.3	4.2	4.1	-133.93	-539.7	-560.2	777.9	769.2	8.72	89.216	
700.0	700.0	783.9	783.9	4.4	4.3	-133.94	-539.3	-559.7	777.3	768.2	9.06	85.807	
800.0	800.0	881.1	881.1	4.6	4.5	-133.95	-539.2	-559.4	777.0	767.6	9.41	82.571	
900.0	900.0	982.0	982.0	4.8	4.7	-133.95	-539.2	-559.2	776.9	767.1	9.74	79.787	
961.3	961.3	1,041.3	1,041.3	4.9	4.7	-133.94	-539.0	-559.3	776.7	766.8	9.91	78.342 CC	
1,000.0	1,000.0	1,078.1	1,078.1	4.9	4.8	-133.94	-539.0	-559.3	776.8	766.8	10.03	77.483 ES	
1,100.0	1,100.0	1,177.7	1,177.7	5.1	4.9	-133.94	-539.2	-559.6	777.1	766.8	10.29	75.489	
1,200.0	1,200.0	1,275.3	1,275.3	5.2	5.0	-133.92	-539.3	-560.1	777.5	767.0	10.55	73.667	
1,300.0	1,300.0	1,377.9	1,377.9	5.4	5.1	-133.95	-539.9	-560.1	778.0	767.2	10.83	71.848	
1,400.0	1,400.0	1,479.8	1,479.8	5.5	5.3	-134.01	-540.6	-559.6	778.1	767.0	11.10	70.113	
1,500.0	1,500.0	1,574.9	1,574.9	5.7	5.4	-134.09	-541.6	-559.0	778.3	767.0	11.37	68.463	
1,600.0	1,600.0	1,663.2	1,663.1	5.9	6.0	126.43	-541.6	-560.7	780.8	768.8	11.99	65.150	
1,700.0	1,699.8	1,756.5	1,756.2	6.1	6.1	126.99	-539.7	-565.9	786.5	774.3	12.24	64.234	
1,800.0	1,799.5	1,845.7	1,845.1	6.4	6.2	127.83	-536.5	-573.3	795.5	783.0	12.50	63.636	
1,900.0	1,898.7	1,938.0	1,936.9	6.6	6.3	128.88	-532.7	-581.7	807.3	794.5	12.77	63.201	
2,000.0	1,997.5	2,033.0	2,031.4	6.9	6.4	130.06	-529.4	-591.2	822.7	809.6	13.09	62.848 SF	
2,100.0	2,095.6	2,100.3	2,098.2	7.2	6.5	130.84	-528.2	-599.0	843.0	829.7	13.37	63.038	
2,200.0	2,193.1	2,184.6	2,181.9	7.5	6.6	131.90	-528.0	-609.9	868.1	854.4	13.72	63.278	
2,271.0	2,261.7	2,249.5	2,246.2	7.7	6.7	132.74	-528.2	-618.3	888.0	874.0	13.96	63.598	
2,300.0	2,289.7	2,276.8	2,273.3	7.8	6.7	133.23	-528.3	-621.8	896.5	882.4	14.06	63.768	
2,400.0	2,386.1	2,368.6	2,364.3	8.1	6.8	134.80	-528.6	-633.5	926.0	911.5	14.47	63.996	
2,500.0	2,482.5	2,463.7	2,458.6	8.4	7.0	136.32	-529.0	-645.7	956.2	941.3	14.93	64.054	
2,600.0	2,578.9	2,562.4	2,556.6	8.7	7.1	137.82	-528.9	-658.0	986.5	971.0	15.43	63.912	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - MINIS 1 FEDERAL COM 3BS 5H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 195-r.5 MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	76.1	76.1	3.0	3.1	-135.35	-539.3	-532.7	758.0	751.5	6.52	116.228 CC	
100.0	100.0	173.6	173.6	3.2	3.5	-135.29	-539.0	-533.5	758.4	751.3	7.12	106.561	
200.0	200.0	271.6	271.6	3.5	3.7	-135.19	-538.6	-535.0	759.2	751.6	7.59	100.087	
300.0	300.0	370.0	370.0	3.7	4.2	-135.07	-538.1	-536.8	760.1	751.9	8.22	92.517	
400.0	400.0	469.0	469.0	3.9	4.7	-134.99	-538.1	-538.4	761.3	752.3	8.96	84.965	
500.0	500.0	570.7	570.6	4.1	4.9	-135.01	-539.2	-539.0	762.4	753.1	9.32	81.796	
600.0	600.0	675.7	675.7	4.2	5.0	-135.17	-541.1	-537.9	763.0	753.3	9.65	79.045	
700.0	700.0	776.5	776.4	4.4	5.2	-135.33	-542.8	-536.6	763.3	753.2	10.04	76.024	
800.0	800.0	880.3	880.2	4.6	5.6	-135.45	-543.9	-535.5	763.3	752.6	10.66	71.585	
900.0	900.0	982.3	982.2	4.8	6.0	-135.54	-544.4	-534.3	762.8	751.6	11.14	68.445	
1,000.0	1,000.0	1,081.3	1,081.2	4.9	6.1	-135.65	-545.1	-532.9	762.3	750.9	11.39	66.927	
1,100.0	1,100.0	1,180.9	1,180.8	5.1	6.2	-135.75	-545.8	-531.6	761.9	750.3	11.65	65.399	
1,200.0	1,200.0	1,281.3	1,281.2	5.2	6.3	-135.85	-546.4	-530.4	761.5	749.6	11.90	63.990	
1,300.0	1,300.0	1,380.6	1,380.4	5.4	6.5	-135.92	-546.8	-529.5	761.1	749.0	12.15	62.647	
1,400.0	1,400.0	1,481.2	1,481.1	5.5	6.6	-136.00	-547.2	-528.5	760.8	748.4	12.36	61.545	
1,500.0	1,500.0	1,581.8	1,581.6	5.7	6.7	-136.09	-547.8	-527.3	760.4	747.8	12.57	60.490	
1,525.6	1,525.6	1,607.6	1,607.4	5.7	6.7	124.27	-548.0	-526.9	760.3	747.7	12.64	60.174 ES	
1,600.0	1,600.0	1,683.2	1,683.0	5.9	6.9	124.27	-548.6	-525.6	760.8	748.0	12.83	59.298	
1,700.0	1,699.8	1,806.6	1,806.4	6.1	7.1	124.42	-548.9	-521.5	761.6	748.5	13.13	58.025	
1,800.0	1,799.5	1,918.2	1,917.7	6.4	7.3	124.73	-547.8	-515.1	761.8	748.4	13.40	56.839	
1,900.0	1,898.7	2,021.1	2,020.5	6.6	7.5	125.19	-546.4	-508.4	763.3	749.6	13.70	55.712	
2,000.0	1,997.5	2,122.8	2,121.8	6.9	7.7	125.84	-544.8	-501.6	766.5	752.5	14.03	54.638	
2,100.0	2,095.6	2,223.7	2,222.5	7.2	7.9	126.64	-543.1	-494.6	771.7	757.3	14.39	53.621	
2,200.0	2,193.1	2,326.1	2,324.6	7.5	8.1	127.61	-541.3	-487.0	778.9	764.1	14.80	52.630	
2,271.0	2,261.7	2,400.9	2,399.2	7.7	8.3	128.40	-539.9	-481.0	785.0	769.9	15.08	52.047	
2,300.0	2,289.7	2,432.0	2,430.1	7.8	8.4	128.78	-539.2	-478.4	787.7	772.5	15.19	51.844	
2,400.0	2,386.1	2,538.9	2,536.5	8.1	8.6	130.04	-536.9	-468.3	796.3	780.6	15.67	50.805	
2,500.0	2,482.5	2,648.2	2,645.1	8.4	8.9	131.22	-534.5	-456.4	804.0	787.8	16.20	49.643	
2,600.0	2,578.9	2,753.8	2,750.0	8.7	9.3	132.28	-531.9	-443.3	810.7	794.0	16.75	48.393	
2,700.0	2,675.3	2,846.7	2,842.1	9.1	9.5	133.23	-529.5	-432.1	817.8	800.5	17.33	47.202	
2,800.0	2,771.7	2,942.7	2,937.5	9.4	9.8	134.26	-526.4	-421.6	825.8	807.8	17.94	46.036	
2,900.0	2,868.1	3,038.4	3,032.6	9.8	10.1	135.29	-523.2	-411.3	834.0	815.4	18.58	44.893	
3,000.0	2,964.5	3,111.0	3,104.8	10.2	10.3	136.05	-521.3	-404.2	843.9	824.8	19.18	44.011	
3,100.0	3,060.9	3,205.0	3,198.5	10.6	10.7	137.01	-520.2	-397.1	856.6	836.7	19.85	43.156	
3,200.0	3,157.3	3,288.3	3,281.6	11.0	10.9	137.86	-519.9	-392.1	871.1	850.6	20.46	42.570	
3,300.0	3,253.7	3,384.7	3,377.9	11.4	11.2	138.82	-519.4	-386.5	886.0	864.8	21.13	41.923	
3,400.0	3,350.1	3,481.9	3,474.9	11.8	11.5	139.78	-518.7	-381.0	901.2	879.4	21.83	41.292	
3,500.0	3,446.5	3,585.8	3,578.6	12.2	11.8	140.78	-517.6	-375.0	916.5	893.9	22.56	40.615	
3,600.0	3,542.9	3,685.9	3,678.6	12.7	12.1	141.74	-516.0	-369.0	931.5	908.1	23.31	39.952	
3,700.0	3,639.3	3,788.1	3,780.5	13.1	12.4	142.70	-513.8	-362.7	946.3	922.2	24.09	39.291	
3,800.0	3,735.7	3,888.1	3,880.4	13.5	12.7	143.62	-511.5	-356.1	961.0	936.1	24.87	38.640	
3,900.0	3,832.1	3,979.6	3,971.6	14.0	13.0	144.42	-509.7	-350.3	976.2	950.6	25.62	38.102	
4,000.0	3,928.5	4,077.0	4,068.8	14.4	13.3	145.28	-507.4	-344.6	992.0	965.6	26.41	37.566 SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well_ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - MINIS 1 FEDERAL COM 3BS 7H - OWB - AWP													Offset Site Error: 0.0 usft		
Survey Program: 152-r.5 MWD				Rule Assigned:										Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
6,300.0	6,145.7	6,250.4	6,245.2	25.3	14.4	2.98	-407.4	2,113.2	978.5	938.3	40.19	24.344			
6,400.0	6,242.1	6,345.0	6,339.9	25.8	14.5	3.06	-407.3	2,112.7	951.4	910.5	40.88	23.273			
6,500.0	6,338.5	6,442.6	6,437.5	26.3	14.5	3.21	-408.1	2,112.0	924.3	882.7	41.56	22.242			
6,600.0	6,434.9	6,538.6	6,533.4	26.7	14.6	3.38	-409.0	2,111.1	897.1	854.9	42.24	21.238			
6,643.3	6,476.6	6,580.1	6,574.9	26.9	14.6	3.45	-409.4	2,110.8	885.4	842.9	42.53	20.818			
6,700.0	6,531.4	6,636.2	6,631.0	27.2	14.6	3.53	-409.8	2,110.3	870.3	827.4	42.90	20.284			
6,800.0	6,628.3	6,731.7	6,726.6	27.7	14.7	3.70	-410.7	2,109.3	844.7	801.1	43.59	19.379			
6,900.0	6,725.6	6,826.6	6,821.4	28.2	14.7	3.86	-411.6	2,108.7	821.3	777.1	44.27	18.554			
7,000.0	6,823.2	6,924.9	6,919.7	28.6	14.8	4.01	-412.4	2,108.1	799.5	754.6	44.91	17.804			
7,100.0	6,921.3	7,021.2	7,016.0	29.1	14.8	4.17	-413.3	2,107.5	779.6	734.0	45.55	17.113			
7,200.0	7,019.7	7,119.3	7,114.1	29.5	14.8	4.33	-414.2	2,107.2	761.5	715.3	46.17	16.495			
7,300.0	7,118.3	7,216.7	7,211.5	30.0	14.8	4.51	-415.4	2,106.7	745.1	698.4	46.77	15.934			
7,400.0	7,217.3	7,313.5	7,308.3	30.4	14.8	4.70	-416.9	2,106.5	730.8	683.5	47.34	15.436			
7,500.0	7,316.4	7,412.0	7,406.7	30.8	14.7	4.88	-418.3	2,106.5	718.4	670.5	47.88	15.004			
7,600.0	7,415.8	7,511.6	7,506.3	31.3	14.7	5.07	-419.7	2,106.5	707.7	659.4	48.38	14.628			
7,700.0	7,515.4	7,612.1	7,606.8	31.6	14.6	5.23	-421.0	2,106.5	698.8	649.9	48.87	14.299			
7,800.0	7,615.1	7,712.9	7,707.6	32.0	14.6	5.37	-422.2	2,106.3	691.3	642.0	49.33	14.014			
7,900.0	7,714.9	7,811.4	7,806.1	32.4	14.6	5.49	-423.1	2,106.2	685.7	635.9	49.80	13.769			
8,000.0	7,814.8	7,909.6	7,904.3	32.7	14.6	5.59	-424.0	2,106.3	682.0	631.7	50.21	13.581			
8,100.0	7,914.8	8,009.4	8,004.2	33.0	14.5	5.68	-424.9	2,106.6	680.2	629.6	50.55	13.455			
8,156.1	7,970.9	8,065.8	8,060.5	33.0	14.5	5.72	-425.4	2,106.8	679.9	629.3	50.63	13.429 CC, ES			
8,185.2	8,000.0	8,095.0	8,089.7	33.1	14.4	105.34	-425.6	2,106.9	680.0	629.3	50.67	13.420 SF			
8,200.0	8,014.8	8,109.9	8,104.6	33.1	14.4	105.35	-425.7	2,107.0	680.0	629.4	50.67	13.422			
8,300.0	8,114.8	8,210.7	8,205.4	33.1	14.4	105.39	-426.3	2,107.2	680.4	629.8	50.67	13.429			
8,400.0	8,214.8	8,310.3	8,305.0	33.1	14.3	105.41	-426.6	2,107.5	680.8	630.1	50.68	13.435			
8,500.0	8,314.8	8,409.0	8,403.7	33.2	14.2	105.42	-426.9	2,108.0	681.4	630.7	50.68	13.445			
8,600.0	8,414.8	8,511.1	8,505.8	33.2	14.2	105.44	-427.2	2,108.3	681.7	631.1	50.65	13.459			
8,700.0	8,514.8	8,608.5	8,603.2	33.2	14.1	105.46	-427.5	2,108.7	682.2	631.6	50.68	13.461			
8,800.0	8,614.8	8,706.9	8,701.6	33.2	14.0	105.50	-428.2	2,109.3	683.0	632.3	50.69	13.474			
8,900.0	8,714.8	8,805.4	8,800.1	33.3	13.9	105.55	-429.1	2,110.2	684.1	633.4	50.70	13.494			
9,000.0	8,814.8	8,904.6	8,899.3	33.3	13.9	105.57	-429.6	2,111.2	685.2	634.6	50.69	13.518			
9,100.0	8,914.8	9,004.4	8,999.0	33.3	13.8	105.55	-429.7	2,112.6	686.6	635.9	50.68	13.547			
9,200.0	9,014.8	9,106.8	9,101.5	33.3	13.7	105.50	-429.5	2,113.8	687.7	637.0	50.65	13.578			
9,300.0	9,114.8	9,209.5	9,204.2	33.4	13.7	105.45	-429.1	2,114.7	688.4	637.8	50.63	13.597			
9,400.0	9,214.8	9,306.9	9,301.5	33.4	13.6	105.39	-428.5	2,115.4	689.0	638.3	50.68	13.596			
9,500.0	9,314.8	9,404.9	9,399.5	33.4	13.6	105.35	-428.3	2,116.7	690.1	639.4	50.70	13.611			
9,600.0	9,414.8	9,503.8	9,498.5	33.4	13.6	105.29	-428.0	2,118.0	691.4	640.7	50.72	13.632			
9,700.0	9,514.8	9,607.2	9,601.9	33.5	13.5	105.18	-427.0	2,119.6	692.6	641.9	50.70	13.660			
9,800.0	9,614.8	9,705.2	9,699.8	33.5	13.5	105.07	-426.0	2,120.8	693.5	642.8	50.75	13.665			
9,900.0	9,714.8	9,808.0	9,802.6	33.5	13.5	104.95	-424.9	2,122.2	694.5	643.8	50.75	13.686			
10,000.0	9,814.8	9,908.7	9,903.2	33.5	13.5	104.89	-424.3	2,123.0	695.2	644.5	50.77	13.695			
10,100.0	9,914.8	10,008.4	10,003.0	33.6	13.5	104.87	-424.3	2,123.7	695.9	645.1	50.78	13.703			
10,200.0	10,014.8	10,106.8	10,101.4	33.6	13.5	104.86	-424.4	2,124.6	696.7	645.9	50.81	13.712			
10,301.7	10,116.5	10,214.4	10,209.0	33.6	13.5	104.88	-424.8	2,125.1	697.3	646.5	50.78	13.732			
10,325.0	10,139.8	10,239.8	10,234.4	33.6	13.5	105.30	-424.9	2,125.1	697.4	646.7	50.75	13.742			
10,350.0	10,164.7	10,267.0	10,261.6	33.6	13.5	105.43	-425.0	2,124.9	697.8	647.1	50.70	13.763			
10,375.0	10,189.5	10,292.7	10,287.3	33.6	13.5	105.62	-425.1	2,124.7	698.5	647.9	50.66	13.788			
10,400.0	10,214.1	10,316.7	10,311.3	33.6	13.5	105.85	-425.2	2,124.5	699.6	649.0	50.63	13.817			
10,425.0	10,238.4	10,340.5	10,335.1	33.6	13.5	106.11	-425.2	2,124.4	701.1	650.5	50.59	13.858			
10,450.0	10,262.4	10,364.0	10,358.6	33.6	13.6	106.41	-425.2	2,124.3	703.0	652.5	50.54	13.911			
10,475.0	10,286.0	10,387.7	10,382.3	33.5	13.6	106.75	-425.2	2,124.2	705.4	654.9	50.46	13.977			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - MINIS 1 FEDERAL COM 3BS 7H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 152-r.5 MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,500.0	10,309.2	10,411.6	10,406.2	33.5	13.6	107.13	-425.1	2,124.1	708.2	657.8	50.37	14.059	
10,525.0	10,331.8	10,435.0	10,429.5	33.5	13.7	107.52	-425.0	2,123.9	711.5	661.3	50.27	14.155	
10,550.0	10,353.8	10,457.8	10,452.3	33.5	13.7	107.90	-424.9	2,123.8	715.4	665.2	50.14	14.267	
10,575.0	10,375.1	10,479.4	10,474.0	33.5	13.7	108.25	-424.7	2,123.7	719.8	669.8	50.01	14.394	
10,600.0	10,395.8	10,499.7	10,494.3	33.5	13.8	108.54	-424.6	2,123.6	724.8	674.9	49.86	14.537	
10,625.0	10,415.7	10,519.2	10,513.7	33.5	13.8	108.77	-424.4	2,123.5	730.5	680.8	49.69	14.701	
10,650.0	10,434.7	10,537.9	10,532.4	33.5	13.8	108.94	-424.3	2,123.4	736.9	687.4	49.51	14.885	
10,675.0	10,452.9	10,555.7	10,550.3	33.5	13.8	109.02	-424.2	2,123.3	744.0	694.7	49.31	15.091	
10,700.0	10,470.2	10,602.0	10,596.5	33.4	13.9	110.68	-424.2	2,122.1	751.7	702.9	48.77	15.413	
10,725.0	10,486.5	10,611.7	10,606.2	33.4	13.9	110.29	-424.2	2,121.6	759.7	711.2	48.59	15.634	
10,750.0	10,501.8	10,618.4	10,613.0	33.4	13.9	109.60	-424.3	2,121.4	768.8	720.4	48.43	15.876	
10,775.0	10,516.0	10,624.7	10,619.2	33.4	13.9	108.76	-424.4	2,121.2	778.9	730.7	48.24	16.147	
10,800.0	10,529.1	10,634.0	10,628.5	33.4	13.9	107.98	-424.5	2,121.1	789.9	741.9	47.99	16.459	
10,825.0	10,541.2	10,644.1	10,638.6	33.4	13.9	107.15	-424.6	2,120.9	801.8	754.1	47.72	16.801	
10,850.0	10,552.0	10,705.5	10,699.8	33.5	14.0	109.98	-426.7	2,116.7	813.9	767.1	46.82	17.383	
10,875.0	10,561.6	10,802.2	10,794.9	33.5	14.2	115.52	-429.8	2,100.1	826.0	780.6	45.42	18.185	
10,900.0	10,570.1	10,853.8	10,844.8	33.5	14.4	117.78	-430.7	2,087.0	838.7	794.2	44.57	18.818	
10,925.0	10,577.3	10,869.3	10,859.6	33.5	14.4	117.26	-430.8	2,082.6	852.2	808.0	44.17	19.293	
10,950.0	10,583.2	10,881.1	10,870.9	33.5	14.4	116.32	-430.8	2,079.1	866.5	822.7	43.81	19.779	
10,975.0	10,587.8	10,890.2	10,879.6	33.5	14.5	114.98	-430.9	2,076.3	881.7	838.2	43.47	20.280	
11,000.0	10,591.2	10,896.6	10,885.6	33.5	14.5	113.22	-431.0	2,074.3	897.7	854.5	43.17	20.793	
11,025.0	10,593.2	10,900.3	10,889.2	33.6	14.5	111.01	-431.0	2,073.1	914.5	871.6	42.90	21.316	
11,050.0	10,594.0	10,901.4	10,890.3	33.6	14.5	108.34	-431.0	2,072.8	932.0	889.3	42.67	21.844	
11,057.1	10,593.9	10,901.3	10,890.1	33.6	14.5	107.49	-431.0	2,072.8	937.1	894.5	42.60	21.996	
11,100.0	10,593.4	10,899.8	10,888.7	33.6	14.5	107.35	-431.0	2,073.3	968.4	926.2	42.25	22.922	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well_ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - MINIS 1 FEDERAL COM WCA 10H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 117-r.5 MWD													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre	Between	Between	No-Go	Separation			
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Distance	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
6,000.0	5,856.5	5,989.7	5,979.6	23.8	16.0	16.24	-600.7	1,967.1	981.5	942.2	39.31	24.968		
6,100.0	5,952.9	6,070.0	6,059.8	24.3	16.1	16.62	-600.5	1,966.6	955.2	915.3	39.95	23.910		
6,200.0	6,049.3	6,149.1	6,138.9	24.8	16.0	17.03	-601.4	1,967.1	930.6	890.2	40.47	22.996		
6,300.0	6,145.7	6,246.1	6,235.9	25.3	16.0	17.57	-602.7	1,968.1	906.6	865.8	40.87	22.185		
6,400.0	6,242.1	6,341.8	6,331.6	25.8	15.9	18.14	-604.0	1,969.0	882.7	841.4	41.27	21.387		
6,500.0	6,338.5	6,440.1	6,429.9	26.3	15.8	18.73	-605.1	1,970.0	858.8	817.1	41.66	20.616		
6,600.0	6,434.9	6,536.0	6,525.7	26.7	15.7	19.33	-606.0	1,971.0	834.9	792.8	42.05	19.854		
6,643.3	6,476.6	6,577.7	6,567.5	26.9	15.7	19.61	-606.5	1,971.5	824.6	782.4	42.21	19.535		
6,700.0	6,531.4	6,632.7	6,622.4	27.2	15.6	19.93	-607.1	1,972.1	811.4	769.0	42.42	19.128		
6,800.0	6,628.3	6,728.4	6,718.2	27.7	15.5	20.49	-608.2	1,973.2	789.6	746.8	42.81	18.443		
6,900.0	6,725.6	6,823.1	6,812.9	28.2	15.5	21.05	-609.7	1,974.3	769.8	726.5	43.21	17.814		
7,000.0	6,823.2	6,922.7	6,912.4	28.6	15.4	21.65	-611.5	1,975.5	751.7	708.1	43.56	17.256		
7,100.0	6,921.3	7,018.9	7,008.5	29.1	15.4	22.20	-613.1	1,976.8	735.4	691.4	43.94	16.736		
7,200.0	7,019.7	7,117.8	7,107.4	29.5	15.3	22.75	-614.9	1,978.1	720.8	676.5	44.28	16.277		
7,300.0	7,118.3	7,216.5	7,206.1	30.0	15.3	23.26	-616.6	1,979.5	707.9	663.3	44.63	15.863		
7,400.0	7,217.3	7,313.5	7,303.1	30.4	15.2	23.73	-618.5	1,981.1	697.0	652.0	44.98	15.494		
7,500.0	7,316.4	7,419.0	7,408.6	30.8	15.1	24.10	-619.1	1,983.1	687.2	641.9	45.27	15.178		
7,600.0	7,415.8	7,517.7	7,507.3	31.3	14.9	24.33	-618.8	1,985.2	678.7	633.0	45.65	14.866		
7,700.0	7,515.4	7,619.7	7,609.2	31.6	14.8	24.50	-618.5	1,987.5	671.8	625.8	46.00	14.605		
7,800.0	7,615.1	7,723.3	7,712.8	32.0	14.6	24.64	-618.0	1,989.1	665.9	619.6	46.33	14.373		
7,900.0	7,714.9	7,823.9	7,813.4	32.4	14.5	24.71	-617.2	1,990.5	661.3	614.6	46.70	14.162		
8,000.0	7,814.8	7,924.0	7,913.5	32.7	14.4	24.72	-616.4	1,991.8	658.3	611.2	47.05	13.991		
8,100.0	7,914.8	8,025.3	8,014.8	33.0	14.3	24.71	-615.8	1,993.0	656.7	609.4	47.35	13.868		
8,167.8	7,982.6	8,094.3	8,083.8	33.1	14.3	24.66	-615.3	1,993.6	656.4	609.0	47.46	13.831		
8,185.2	8,000.0	8,112.0	8,101.5	33.1	14.2	124.25	-615.1	1,993.8	656.4	609.0	47.49	13.823		
8,200.0	8,014.8	8,127.1	8,116.5	33.1	14.2	124.23	-615.0	1,993.9	656.5	609.0	47.49	13.823		
8,300.0	8,114.8	8,229.5	8,219.0	33.1	14.2	124.13	-614.1	1,994.6	656.5	608.9	47.55	13.806		
8,400.0	8,214.8	8,332.5	8,321.9	33.1	14.2	124.02	-612.8	1,995.0	656.1	608.5	47.62	13.779		
8,500.0	8,314.8	8,432.0	8,421.4	33.2	14.2	123.91	-611.4	1,995.2	655.5	607.8	47.73	13.733		
8,600.0	8,414.8	8,531.2	8,520.7	33.2	14.2	123.80	-610.1	1,995.5	655.0	607.2	47.85	13.690		
8,700.0	8,514.8	8,628.7	8,618.1	33.2	14.1	123.72	-609.2	1,995.8	654.8	606.8	47.97	13.651		
8,711.4	8,526.2	8,639.8	8,629.2	33.2	14.1	123.71	-609.1	1,995.8	654.8	606.8	47.98	13.648		
8,800.0	8,614.8	8,725.9	8,715.3	33.2	14.1	123.66	-608.7	1,996.3	654.9	606.9	48.06	13.628		
8,900.0	8,714.8	8,822.9	8,812.3	33.3	14.0	123.60	-608.5	1,997.2	655.5	607.4	48.12	13.623		
9,000.0	8,814.8	8,918.9	8,908.3	33.3	14.0	123.61	-609.2	1,998.0	656.7	608.5	48.16	13.634		
9,100.0	8,914.8	9,015.1	9,004.5	33.3	13.9	123.65	-610.6	1,999.3	658.6	610.4	48.20	13.665		
9,200.0	9,014.8	9,125.7	9,115.1	33.3	13.9	123.70	-611.7	2,000.0	659.7	611.6	48.09	13.719		
9,300.0	9,114.8	9,225.9	9,215.3	33.4	14.0	123.71	-611.9	2,000.1	659.9	611.7	48.12	13.713		
9,400.0	9,214.8	9,322.0	9,311.4	33.4	14.0	123.71	-612.4	2,000.7	660.6	612.5	48.19	13.710		
9,500.0	9,314.8	9,422.9	9,412.3	33.4	13.9	123.70	-612.7	2,001.6	661.6	613.4	48.19	13.728		
9,600.0	9,414.8	9,524.0	9,513.3	33.4	13.8	123.64	-612.6	2,002.6	662.3	614.1	48.22	13.736		
9,700.0	9,514.8	9,624.8	9,614.2	33.5	13.8	123.52	-611.8	2,003.9	662.9	614.7	48.27	13.735		
9,800.0	9,614.8	9,739.2	9,728.6	33.5	13.8	123.42	-610.6	2,004.3	662.7	614.5	48.23	13.742		
9,900.0	9,714.8	9,851.4	9,840.7	33.5	14.0	123.65	-611.2	2,000.4	660.1	611.9	48.17	13.703		
10,000.0	9,814.8	9,957.1	9,946.3	33.5	14.2	123.85	-610.9	1,995.6	656.1	607.9	48.21	13.610		
10,100.0	9,914.8	10,053.7	10,042.8	33.6	14.4	123.90	-609.0	1,991.9	651.9	603.6	48.38	13.474		
10,200.0	10,014.8	10,143.8	10,132.9	33.6	14.6	123.86	-607.2	1,989.9	649.0	600.3	48.64	13.342		
10,301.7	10,116.5	10,247.1	10,236.1	33.6	14.7	123.79	-605.1	1,988.3	646.5	597.7	48.79	13.251		
10,323.6	10,138.4	10,269.2	10,258.2	33.6	14.7	124.22	-604.7	1,987.9	646.2	597.4	48.79	13.245 CC, ES, SF		
10,325.0	10,139.8	10,270.5	10,259.5	33.6	14.7	124.23	-604.7	1,987.9	646.2	597.4	48.79	13.246		
10,350.0	10,164.7	10,295.6	10,284.6	33.6	14.8	124.31	-604.2	1,987.4	646.6	597.9	48.73	13.269		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

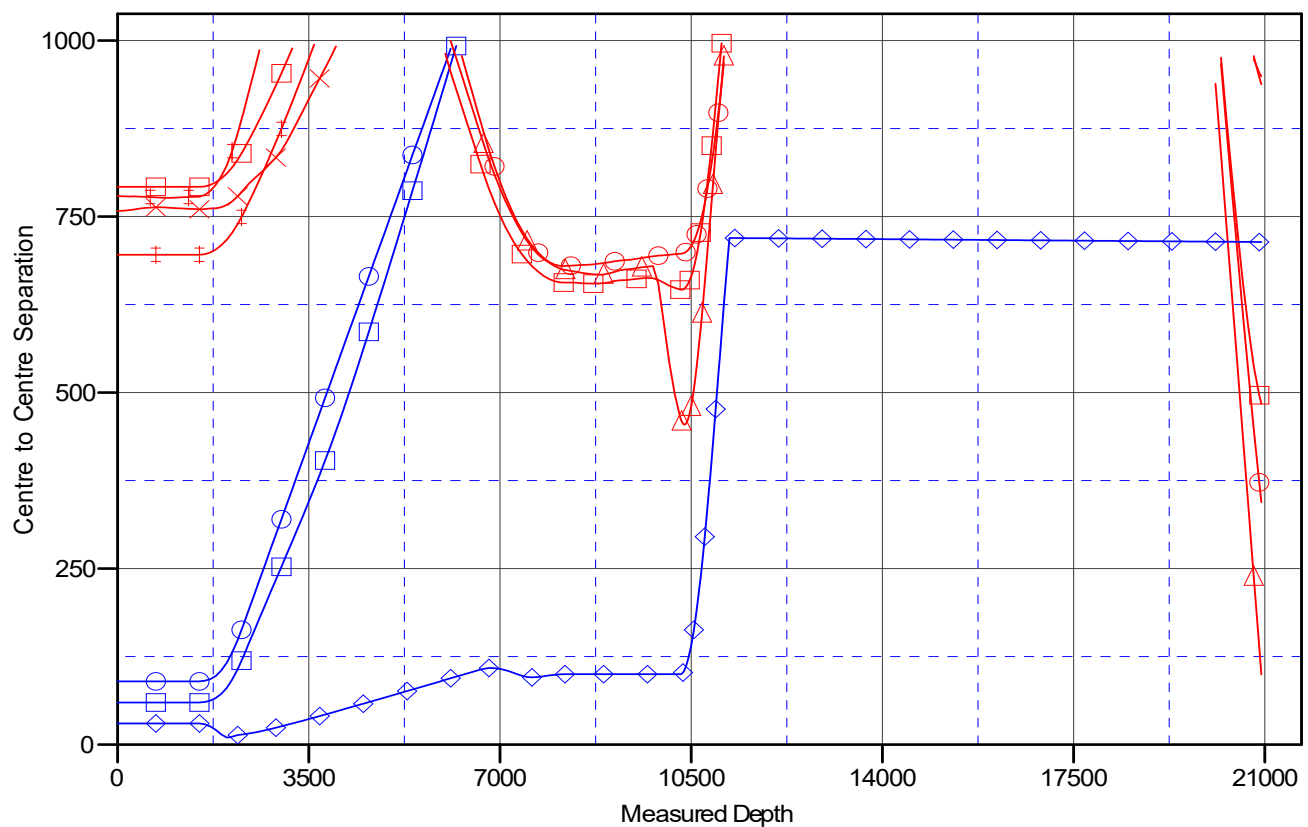
Offset Design:	ORE DIGGER PROJECT - MINIS 1 FEDERAL COM WCA 10H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program:	117-r.5 MWD											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance							
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre	Between	Between	No-Go	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface				Distance	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S	+E/-W	Centres	Ellipses			
							(usft)	(usft)	(usft)	(usft)	(usft)		
10,375.0	10,189.5	10,320.7	10,309.6	33.6	14.8	124.42	-603.7	1,986.9	647.7	599.1	48.65	13.314	
10,400.0	10,214.1	10,345.9	10,334.9	33.6	14.9	124.55	-603.2	1,986.4	649.6	601.1	48.54	13.383	
10,425.0	10,238.4	10,371.0	10,359.9	33.6	14.9	124.70	-602.8	1,985.9	652.2	603.8	48.41	13.474	
10,450.0	10,262.4	10,395.6	10,384.6	33.6	15.0	124.87	-602.4	1,985.3	655.6	607.4	48.25	13.589	
10,475.0	10,286.0	10,418.0	10,406.9	33.5	15.0	125.00	-602.0	1,984.7	659.8	611.7	48.09	13.721	
10,500.0	10,309.2	10,438.4	10,427.3	33.5	15.0	125.05	-601.8	1,984.2	664.8	616.9	47.90	13.879	
10,525.0	10,331.8	10,456.8	10,445.7	33.5	15.0	125.01	-601.6	1,983.9	670.9	623.2	47.71	14.061	
10,550.0	10,353.8	10,474.7	10,463.6	33.5	15.0	124.91	-601.5	1,983.7	677.9	630.4	47.50	14.271	
10,575.0	10,375.1	10,492.0	10,480.9	33.5	15.1	124.73	-601.4	1,983.6	685.9	638.7	47.27	14.510	
10,600.0	10,395.8	10,511.0	10,499.9	33.5	15.1	124.56	-601.4	1,983.6	694.9	647.9	47.01	14.784	
10,625.0	10,415.7	10,527.1	10,516.1	33.5	15.1	124.21	-601.4	1,983.7	704.9	658.2	46.73	15.084	
10,650.0	10,434.7	10,545.1	10,534.1	33.5	15.1	123.88	-601.4	1,983.8	715.7	669.3	46.41	15.420	
10,675.0	10,452.9	10,562.3	10,551.2	33.5	15.0	123.43	-601.5	1,983.8	727.5	681.4	46.09	15.783	
10,700.0	10,470.2	10,578.5	10,567.4	33.4	15.0	122.85	-601.6	1,983.9	740.1	694.3	45.76	16.173	
10,725.0	10,486.5	10,593.7	10,582.7	33.4	15.0	122.12	-601.7	1,984.0	753.5	708.1	45.43	16.588	
10,750.0	10,501.8	10,608.3	10,597.2	33.4	15.0	121.24	-601.8	1,984.1	767.9	722.8	45.09	17.030	
10,775.0	10,516.0	10,622.9	10,611.8	33.4	15.0	120.24	-601.9	1,984.2	783.0	738.2	44.74	17.501	
10,800.0	10,529.1	10,636.4	10,625.3	33.4	15.0	119.03	-602.0	1,984.2	798.9	754.5	44.40	17.994	
10,825.0	10,541.2	10,648.7	10,637.6	33.4	15.0	117.58	-602.1	1,984.3	815.5	771.4	44.06	18.508	
10,850.0	10,552.0	10,659.7	10,648.7	33.5	15.0	115.87	-602.2	1,984.3	832.8	789.1	43.74	19.041	
10,875.0	10,561.6	10,669.6	10,658.5	33.5	15.0	113.86	-602.3	1,984.3	850.8	807.3	43.43	19.591	
10,900.0	10,570.1	10,678.1	10,667.1	33.5	15.0	111.53	-602.4	1,984.3	869.3	826.2	43.13	20.158	
10,925.0	10,577.3	10,685.4	10,674.3	33.5	15.0	108.84	-602.4	1,984.3	888.5	845.6	42.84	20.738	
10,950.0	10,583.2	10,691.4	10,680.3	33.5	15.0	105.78	-602.5	1,984.3	908.1	865.5	42.58	21.329	
10,975.0	10,587.8	10,696.0	10,684.9	33.5	15.0	102.32	-602.5	1,984.3	928.2	885.9	42.32	21.930	
11,000.0	10,591.2	10,699.3	10,688.2	33.5	15.0	98.46	-602.5	1,984.3	948.6	906.5	42.09	22.538	
11,025.0	10,593.2	10,699.0	10,687.9	33.6	15.0	93.99	-602.5	1,984.3	969.4	927.5	41.89	23.140	
11,050.0	10,594.0	10,699.0	10,687.9	33.6	15.0	89.34	-602.5	1,984.3	990.4	948.7	41.70	23.751	
11,057.1	10,593.9	10,699.0	10,687.9	33.6	15.0	87.99	-602.5	1,984.3	996.4	954.8	41.64	23.927	

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3650.0usft (Original Well Ele
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _ORE DIGGER FEDERAL 504H - Slot ORE DIGGER
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.38°

Ladder Plot**LEGEND**

● SANDRA JEAN 23 FED COM501H, OWB, AWP V0
● SANDRA JEAN 23 FED COM502H, OWB, AWP V0
● SANDRA JEAN 23 FED COM501H, OWB, AWP V0
● SANDRA JEAN 23 FED COM502H, OWB, AWP V0
● SANDRA JEAN 23 FED COM51H, OWB, AWP V0

● _ORE DIGGER FEDERAL 503H, OWB, PWP0 V0
● _ORE DIGGER FEDERAL 604H, OWB, PWP0 V0
● _ORE DIGGER FEDERAL 604H, OWB, PWP0 V0
● MNIS 1 FED COM 35S 11H, OWB, AWP V0
● MNIS 1 FED HKY COM 8H, OWB, PLANNED V0

● MNIS 1 FED HKY COM 8H, OWB, PLANNED SURVEY UNAVAILABLE V0
● MNIS 1 FEDERAL.COM 3B54H, OWB, AWP V0
● MNIS 1 FEDERAL.COM 3B54H, OWB, AWP V0
● MNIS 1 FEDERAL.COM 3B57H, OWB, AWP V0
● MNIS 1 FEDERAL.COM WCA10H, OWB, AWP V0

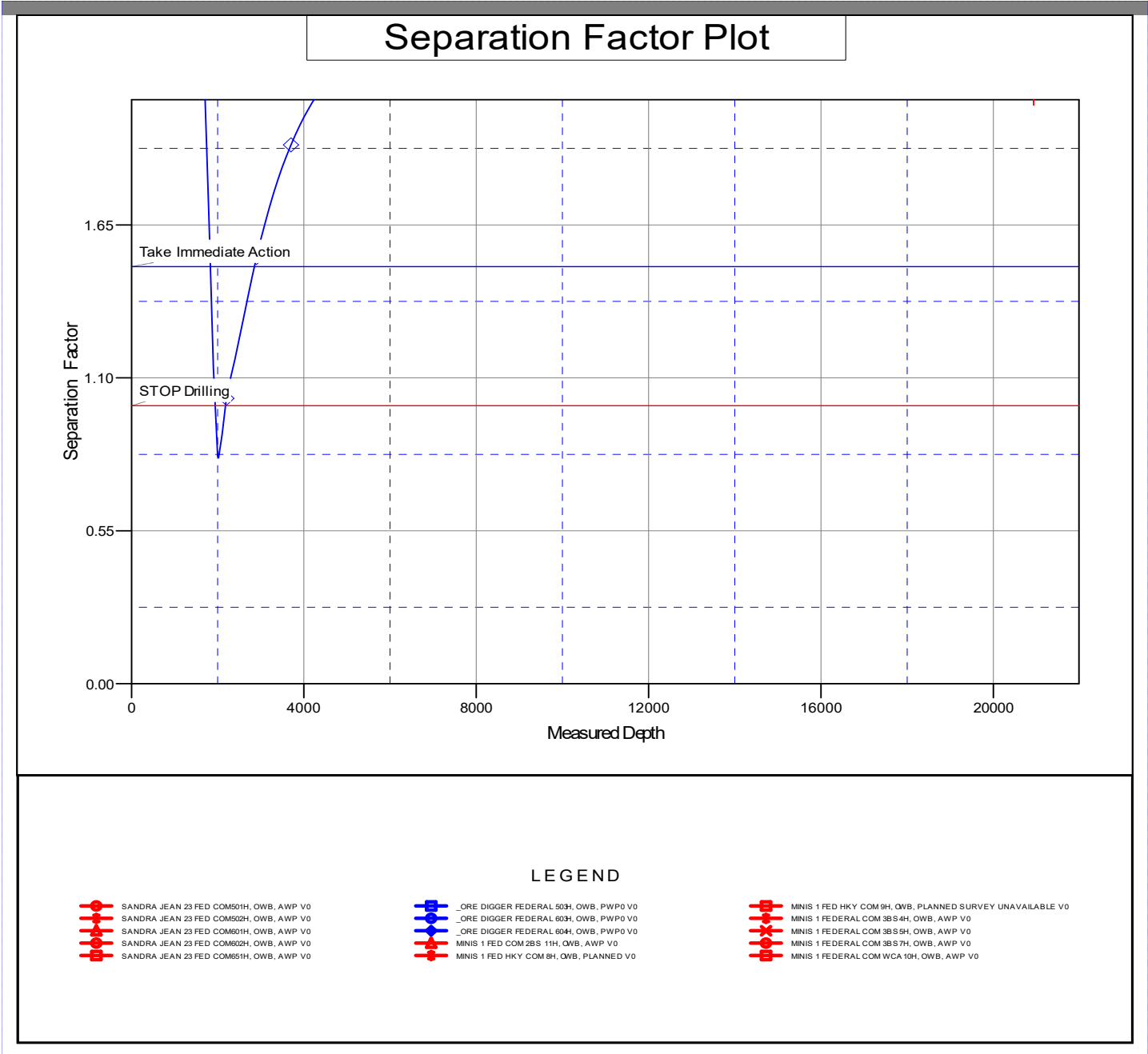
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3650.0usft (Original Well Ele
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _ORE DIGGER FEDERAL 504H - Slot ORE DIGGER
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.38°



DELAWARE BASIN WEST

ZEUS WEST__NM_E

ORE DIGGER PROJECT

**_ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL
504H**

OWB

Plan: PWP0

Standard Planning Report

18 July, 2024

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Company:	DELAWARE BASIN WEST	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Project:	ZEUS WEST__NM_E	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site:	ORE DIGGER PROJECT	North Reference:	Grid
Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Project	ZEUS WEST__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	ORE DIGGER PROJECT		
Site Position:		Northing:	559,726.46 usft
From:	Map	Easting:	715,724.26 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 32' 12.654 N
		Longitude:	103° 38' 0.006 W

Well	_ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty		3.0 usft	Wellhead Elevation:
Grid Convergence:		0.38 °	
			Latitude:
			Longitude:
			Ground Level:

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	BGGM2022	10/11/2023	6.52	60.30	47,636.73117529

Design	PWP0			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	0.00

Plan Survey Tool Program	Date	7/18/2024		
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(usft)	(usft)			
1	0.0	20,939.0 PWP0 (OWB)	r.5 MWD+IFR1	
			OWSG MWD + IFR1 rev.5	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Company:	DELAWARE BASIN WEST	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Project:	ZEUS WEST__NM_E	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site:	ORE DIGGER PROJECT	North Reference:	Grid
Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,271.0	15.42	99.61	2,261.7	-17.2	101.7	2.00	2.00	0.00	99.61	
6,643.3	15.42	99.61	6,476.6	-211.3	1,247.9	0.00	0.00	0.00	0.00	
8,185.2	0.00	0.00	8,000.0	-245.7	1,451.2	1.00	-1.00	0.00	180.00	
10,301.7	0.00	0.00	10,116.5	-245.7	1,451.2	0.00	0.00	0.00	0.00	
11,057.1	90.65	359.62	10,593.9	237.2	1,448.0	12.00	12.00	-0.05	359.62	
20,939.0	90.65	359.62	10,481.0	10,118.2	1,382.6	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Company:	DELAWARE BASIN WEST	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Project:	ZEUS WEST__NM_E	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site:	ORE DIGGER PROJECT	North Reference:	Grid
Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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	
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	2.00	99.61	1,600.0	-0.3	1.7	-0.3	2.00	2.00	0.00	
1,700.0	4.00	99.61	1,699.8	-1.2	6.9	-1.2	2.00	2.00	0.00	
1,800.0	6.00	99.61	1,799.5	-2.6	15.5	-2.6	2.00	2.00	0.00	
1,900.0	8.00	99.61	1,898.7	-4.7	27.5	-4.7	2.00	2.00	0.00	
2,000.0	10.00	99.61	1,997.5	-7.3	42.9	-7.3	2.00	2.00	0.00	
2,100.0	12.00	99.61	2,095.6	-10.5	61.7	-10.5	2.00	2.00	0.00	
2,200.0	14.00	99.61	2,193.1	-14.2	83.9	-14.2	2.00	2.00	0.00	
2,271.0	15.42	99.61	2,261.7	-17.2	101.7	-17.2	2.00	2.00	0.00	
2,300.0	15.42	99.61	2,289.7	-18.5	109.3	-18.5	0.00	0.00	0.00	
2,400.0	15.42	99.61	2,386.1	-22.9	135.5	-22.9	0.00	0.00	0.00	
2,500.0	15.42	99.61	2,482.5	-27.4	161.7	-27.4	0.00	0.00	0.00	
2,600.0	15.42	99.61	2,578.9	-31.8	187.9	-31.8	0.00	0.00	0.00	
2,700.0	15.42	99.61	2,675.3	-36.3	214.1	-36.3	0.00	0.00	0.00	
2,800.0	15.42	99.61	2,771.7	-40.7	240.4	-40.7	0.00	0.00	0.00	
2,900.0	15.42	99.61	2,868.1	-45.1	266.6	-45.1	0.00	0.00	0.00	
3,000.0	15.42	99.61	2,964.5	-49.6	292.8	-49.6	0.00	0.00	0.00	
3,100.0	15.42	99.61	3,060.9	-54.0	319.0	-54.0	0.00	0.00	0.00	
3,200.0	15.42	99.61	3,157.3	-58.4	345.2	-58.4	0.00	0.00	0.00	
3,300.0	15.42	99.61	3,253.7	-62.9	371.4	-62.9	0.00	0.00	0.00	
3,400.0	15.42	99.61	3,350.1	-67.3	397.6	-67.3	0.00	0.00	0.00	
3,500.0	15.42	99.61	3,446.5	-71.8	423.9	-71.8	0.00	0.00	0.00	
3,600.0	15.42	99.61	3,542.9	-76.2	450.1	-76.2	0.00	0.00	0.00	
3,700.0	15.42	99.61	3,639.3	-80.6	476.3	-80.6	0.00	0.00	0.00	
3,800.0	15.42	99.61	3,735.7	-85.1	502.5	-85.1	0.00	0.00	0.00	
3,900.0	15.42	99.61	3,832.1	-89.5	528.7	-89.5	0.00	0.00	0.00	
4,000.0	15.42	99.61	3,928.5	-94.0	554.9	-94.0	0.00	0.00	0.00	
4,100.0	15.42	99.61	4,024.9	-98.4	581.1	-98.4	0.00	0.00	0.00	
4,200.0	15.42	99.61	4,121.3	-102.8	607.4	-102.8	0.00	0.00	0.00	
4,300.0	15.42	99.61	4,217.7	-107.3	633.6	-107.3	0.00	0.00	0.00	
4,400.0	15.42	99.61	4,314.1	-111.7	659.8	-111.7	0.00	0.00	0.00	
4,500.0	15.42	99.61	4,410.5	-116.1	686.0	-116.1	0.00	0.00	0.00	
4,600.0	15.42	99.61	4,506.9	-120.6	712.2	-120.6	0.00	0.00	0.00	
4,700.0	15.42	99.61	4,603.3	-125.0	738.4	-125.0	0.00	0.00	0.00	
4,800.0	15.42	99.61	4,699.7	-129.5	764.6	-129.5	0.00	0.00	0.00	
4,900.0	15.42	99.61	4,796.1	-133.9	790.9	-133.9	0.00	0.00	0.00	
5,000.0	15.42	99.61	4,892.5	-138.3	817.1	-138.3	0.00	0.00	0.00	
5,100.0	15.42	99.61	4,988.9	-142.8	843.3	-142.8	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Company:	DELAWARE BASIN WEST	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Project:	ZEUS WEST__NM_E	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site:	ORE DIGGER PROJECT	North Reference:	Grid
Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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)	
5,200.0	15.42	99.61	5,085.3	-147.2	869.5	-147.2	0.00	0.00	0.00	
5,300.0	15.42	99.61	5,181.7	-151.7	895.7	-151.7	0.00	0.00	0.00	
5,400.0	15.42	99.61	5,278.1	-156.1	921.9	-156.1	0.00	0.00	0.00	
5,500.0	15.42	99.61	5,374.5	-160.5	948.1	-160.5	0.00	0.00	0.00	
5,600.0	15.42	99.61	5,470.9	-165.0	974.4	-165.0	0.00	0.00	0.00	
5,700.0	15.42	99.61	5,567.3	-169.4	1,000.6	-169.4	0.00	0.00	0.00	
5,800.0	15.42	99.61	5,663.7	-173.8	1,026.8	-173.8	0.00	0.00	0.00	
5,900.0	15.42	99.61	5,760.1	-178.3	1,053.0	-178.3	0.00	0.00	0.00	
6,000.0	15.42	99.61	5,856.5	-182.7	1,079.2	-182.7	0.00	0.00	0.00	
6,100.0	15.42	99.61	5,952.9	-187.2	1,105.4	-187.2	0.00	0.00	0.00	
6,200.0	15.42	99.61	6,049.3	-191.6	1,131.6	-191.6	0.00	0.00	0.00	
6,300.0	15.42	99.61	6,145.7	-196.0	1,157.9	-196.0	0.00	0.00	0.00	
6,400.0	15.42	99.61	6,242.1	-200.5	1,184.1	-200.5	0.00	0.00	0.00	
6,500.0	15.42	99.61	6,338.5	-204.9	1,210.3	-204.9	0.00	0.00	0.00	
6,600.0	15.42	99.61	6,434.9	-209.4	1,236.5	-209.4	0.00	0.00	0.00	
6,643.3	15.42	99.61	6,476.6	-211.3	1,247.9	-211.3	0.00	0.00	0.00	
6,700.0	14.85	99.61	6,531.4	-213.7	1,262.5	-213.7	1.00	-1.00	0.00	
6,800.0	13.85	99.61	6,628.3	-217.9	1,286.9	-217.9	1.00	-1.00	0.00	
6,900.0	12.85	99.61	6,725.6	-221.7	1,309.7	-221.7	1.00	-1.00	0.00	
7,000.0	11.85	99.61	6,823.2	-225.3	1,330.8	-225.3	1.00	-1.00	0.00	
7,100.0	10.85	99.61	6,921.3	-228.6	1,350.2	-228.6	1.00	-1.00	0.00	
7,200.0	9.85	99.61	7,019.7	-231.6	1,367.9	-231.6	1.00	-1.00	0.00	
7,300.0	8.85	99.61	7,118.3	-234.3	1,383.9	-234.3	1.00	-1.00	0.00	
7,400.0	7.85	99.61	7,217.3	-236.7	1,398.2	-236.7	1.00	-1.00	0.00	
7,500.0	6.85	99.61	7,316.4	-238.9	1,410.8	-238.9	1.00	-1.00	0.00	
7,600.0	5.85	99.61	7,415.8	-240.7	1,421.7	-240.7	1.00	-1.00	0.00	
7,700.0	4.85	99.61	7,515.4	-242.3	1,430.9	-242.3	1.00	-1.00	0.00	
7,800.0	3.85	99.61	7,615.1	-243.5	1,438.4	-243.5	1.00	-1.00	0.00	
7,900.0	2.85	99.61	7,714.9	-244.5	1,444.2	-244.5	1.00	-1.00	0.00	
8,000.0	1.85	99.61	7,814.8	-245.2	1,448.2	-245.2	1.00	-1.00	0.00	
8,100.0	0.85	99.61	7,914.8	-245.6	1,450.6	-245.6	1.00	-1.00	0.00	
8,185.2	0.00	0.00	8,000.0	-245.7	1,451.2	-245.7	1.00	-1.00	0.00	
8,200.0	0.00	0.00	8,014.8	-245.7	1,451.2	-245.7	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,114.8	-245.7	1,451.2	-245.7	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,214.8	-245.7	1,451.2	-245.7	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,314.8	-245.7	1,451.2	-245.7	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,414.8	-245.7	1,451.2	-245.7	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,514.8	-245.7	1,451.2	-245.7	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,614.8	-245.7	1,451.2	-245.7	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,714.8	-245.7	1,451.2	-245.7	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,814.8	-245.7	1,451.2	-245.7	0.00	0.00	0.00	
9,100.0	0.00	0.00	8,914.8	-245.7	1,451.2	-245.7	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,014.8	-245.7	1,451.2	-245.7	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,114.8	-245.7	1,451.2	-245.7	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,214.8	-245.7	1,451.2	-245.7	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,314.8	-245.7	1,451.2	-245.7	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,414.8	-245.7	1,451.2	-245.7	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,514.8	-245.7	1,451.2	-245.7	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,614.8	-245.7	1,451.2	-245.7	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,714.8	-245.7	1,451.2	-245.7	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,814.8	-245.7	1,451.2	-245.7	0.00	0.00	0.00	
10,100.0	0.00	0.00	9,914.8	-245.7	1,451.2	-245.7	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,014.8	-245.7	1,451.2	-245.7	0.00	0.00	0.00	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Company:	DELAWARE BASIN WEST	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Project:	ZEUS WEST__NM_E	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site:	ORE DIGGER PROJECT	North Reference:	Grid
Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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)	
10,301.7	0.00	0.00	10,116.5	-245.7	1,451.2	-245.7	0.00	0.00	0.00	
10,325.0	2.80	359.62	10,139.8	-245.1	1,451.2	-245.1	12.00	12.00	0.00	
10,350.0	5.80	359.62	10,164.7	-243.3	1,451.2	-243.3	12.00	12.00	0.00	
10,375.0	8.80	359.62	10,189.5	-240.1	1,451.1	-240.1	12.00	12.00	0.00	
10,400.0	11.80	359.62	10,214.1	-235.6	1,451.1	-235.6	12.00	12.00	0.00	
10,425.0	14.80	359.62	10,238.4	-229.9	1,451.1	-229.9	12.00	12.00	0.00	
10,450.0	17.80	359.62	10,262.4	-222.9	1,451.0	-222.9	12.00	12.00	0.00	
10,475.0	20.80	359.62	10,286.0	-214.6	1,451.0	-214.6	12.00	12.00	0.00	
10,500.0	23.80	359.62	10,309.2	-205.1	1,450.9	-205.1	12.00	12.00	0.00	
10,525.0	26.80	359.62	10,331.8	-194.4	1,450.8	-194.4	12.00	12.00	0.00	
10,550.0	29.80	359.62	10,353.8	-182.6	1,450.8	-182.6	12.00	12.00	0.00	
10,575.0	32.80	359.62	10,375.1	-169.6	1,450.7	-169.6	12.00	12.00	0.00	
10,600.0	35.80	359.62	10,395.8	-155.5	1,450.6	-155.5	12.00	12.00	0.00	
10,625.0	38.80	359.62	10,415.7	-140.4	1,450.5	-140.4	12.00	12.00	0.00	
10,650.0	41.80	359.62	10,434.7	-124.2	1,450.4	-124.2	12.00	12.00	0.00	
10,675.0	44.80	359.62	10,452.9	-107.0	1,450.3	-107.0	12.00	12.00	0.00	
10,700.0	47.80	359.62	10,470.2	-89.0	1,450.1	-89.0	12.00	12.00	0.00	
10,725.0	50.80	359.62	10,486.5	-70.0	1,450.0	-70.0	12.00	12.00	0.00	
10,750.0	53.80	359.62	10,501.8	-50.3	1,449.9	-50.3	12.00	12.00	0.00	
10,775.0	56.80	359.62	10,516.0	-29.7	1,449.8	-29.7	12.00	12.00	0.00	
10,800.0	59.80	359.62	10,529.1	-8.4	1,449.6	-8.4	12.00	12.00	0.00	
10,825.0	62.80	359.62	10,541.2	13.5	1,449.5	13.5	12.00	12.00	0.00	
10,850.0	65.80	359.62	10,552.0	36.0	1,449.3	36.0	12.00	12.00	0.00	
10,875.0	68.80	359.62	10,561.6	59.1	1,449.2	59.1	12.00	12.00	0.00	
10,900.0	71.80	359.62	10,570.1	82.6	1,449.0	82.6	12.00	12.00	0.00	
10,925.0	74.80	359.62	10,577.3	106.5	1,448.9	106.5	12.00	12.00	0.00	
10,950.0	77.80	359.62	10,583.2	130.8	1,448.7	130.8	12.00	12.00	0.00	
10,975.0	80.80	359.62	10,587.8	155.4	1,448.5	155.4	12.00	12.00	0.00	
11,000.0	83.80	359.62	10,591.2	180.2	1,448.4	180.2	12.00	12.00	0.00	
11,025.0	86.80	359.62	10,593.2	205.1	1,448.2	205.1	12.00	12.00	0.00	
11,050.0	89.80	359.62	10,594.0	230.1	1,448.0	230.1	12.00	12.00	0.00	
11,057.1	90.65	359.62	10,593.9	237.2	1,448.0	237.2	12.00	12.00	0.00	
11,100.0	90.65	359.62	10,593.4	280.1	1,447.7	280.1	0.00	0.00	0.00	
11,200.0	90.65	359.62	10,592.3	380.1	1,447.0	380.1	0.00	0.00	0.00	
11,300.0	90.65	359.62	10,591.2	480.0	1,446.4	480.0	0.00	0.00	0.00	
11,400.0	90.65	359.62	10,590.0	580.0	1,445.7	580.0	0.00	0.00	0.00	
11,500.0	90.65	359.62	10,588.9	680.0	1,445.1	680.0	0.00	0.00	0.00	
11,600.0	90.65	359.62	10,587.7	780.0	1,444.4	780.0	0.00	0.00	0.00	
11,700.0	90.65	359.62	10,586.6	880.0	1,443.7	880.0	0.00	0.00	0.00	
11,800.0	90.65	359.62	10,585.4	980.0	1,443.1	980.0	0.00	0.00	0.00	
11,900.0	90.65	359.62	10,584.3	1,080.0	1,442.4	1,080.0	0.00	0.00	0.00	
12,000.0	90.65	359.62	10,583.2	1,180.0	1,441.8	1,180.0	0.00	0.00	0.00	
12,100.0	90.65	359.62	10,582.0	1,280.0	1,441.1	1,280.0	0.00	0.00	0.00	
12,200.0	90.65	359.62	10,580.9	1,380.0	1,440.4	1,380.0	0.00	0.00	0.00	
12,300.0	90.65	359.62	10,579.7	1,480.0	1,439.8	1,480.0	0.00	0.00	0.00	
12,400.0	90.65	359.62	10,578.6	1,579.9	1,439.1	1,579.9	0.00	0.00	0.00	
12,500.0	90.65	359.62	10,577.4	1,679.9	1,438.4	1,679.9	0.00	0.00	0.00	
12,600.0	90.65	359.62	10,576.3	1,779.9	1,437.8	1,779.9	0.00	0.00	0.00	
12,700.0	90.65	359.62	10,575.2	1,879.9	1,437.1	1,879.9	0.00	0.00	0.00	
12,800.0	90.65	359.62	10,574.0	1,979.9	1,436.5	1,979.9	0.00	0.00	0.00	
12,900.0	90.65	359.62	10,572.9	2,079.9	1,435.8	2,079.9	0.00	0.00	0.00	
13,000.0	90.65	359.62	10,571.7	2,179.9	1,435.1	2,179.9	0.00	0.00	0.00	
13,100.0	90.65	359.62	10,570.6	2,279.9	1,434.5	2,279.9	0.00	0.00	0.00	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Company:	DELAWARE BASIN WEST	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Project:	ZEUS WEST__NM_E	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site:	ORE DIGGER PROJECT	North Reference:	Grid
Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
13,200.0	90.65	359.62	10,569.4	2,379.9	1,433.8	2,379.9	0.00	0.00	0.00	
13,300.0	90.65	359.62	10,568.3	2,479.9	1,433.2	2,479.9	0.00	0.00	0.00	
13,400.0	90.65	359.62	10,567.2	2,579.9	1,432.5	2,579.9	0.00	0.00	0.00	
13,500.0	90.65	359.62	10,566.0	2,679.9	1,431.8	2,679.9	0.00	0.00	0.00	
13,600.0	90.65	359.62	10,564.9	2,779.8	1,431.2	2,779.8	0.00	0.00	0.00	
13,700.0	90.65	359.62	10,563.7	2,879.8	1,430.5	2,879.8	0.00	0.00	0.00	
13,800.0	90.65	359.62	10,562.6	2,979.8	1,429.9	2,979.8	0.00	0.00	0.00	
13,900.0	90.65	359.62	10,561.4	3,079.8	1,429.2	3,079.8	0.00	0.00	0.00	
14,000.0	90.65	359.62	10,560.3	3,179.8	1,428.5	3,179.8	0.00	0.00	0.00	
14,100.0	90.65	359.62	10,559.2	3,279.8	1,427.9	3,279.8	0.00	0.00	0.00	
14,200.0	90.65	359.62	10,558.0	3,379.8	1,427.2	3,379.8	0.00	0.00	0.00	
14,300.0	90.65	359.62	10,556.9	3,479.8	1,426.5	3,479.8	0.00	0.00	0.00	
14,400.0	90.65	359.62	10,555.7	3,579.8	1,425.9	3,579.8	0.00	0.00	0.00	
14,500.0	90.65	359.62	10,554.6	3,679.8	1,425.2	3,679.8	0.00	0.00	0.00	
14,600.0	90.65	359.62	10,553.4	3,779.8	1,424.6	3,779.8	0.00	0.00	0.00	
14,700.0	90.65	359.62	10,552.3	3,879.7	1,423.9	3,879.7	0.00	0.00	0.00	
14,800.0	90.65	359.62	10,551.2	3,979.7	1,423.2	3,979.7	0.00	0.00	0.00	
14,900.0	90.65	359.62	10,550.0	4,079.7	1,422.6	4,079.7	0.00	0.00	0.00	
15,000.0	90.65	359.62	10,548.9	4,179.7	1,421.9	4,179.7	0.00	0.00	0.00	
15,100.0	90.65	359.62	10,547.7	4,279.7	1,421.3	4,279.7	0.00	0.00	0.00	
15,200.0	90.65	359.62	10,546.6	4,379.7	1,420.6	4,379.7	0.00	0.00	0.00	
15,300.0	90.65	359.62	10,545.4	4,479.7	1,419.9	4,479.7	0.00	0.00	0.00	
15,400.0	90.65	359.62	10,544.3	4,579.7	1,419.3	4,579.7	0.00	0.00	0.00	
15,500.0	90.65	359.62	10,543.2	4,679.7	1,418.6	4,679.7	0.00	0.00	0.00	
15,600.0	90.65	359.62	10,542.0	4,779.7	1,417.9	4,779.7	0.00	0.00	0.00	
15,700.0	90.65	359.62	10,540.9	4,879.7	1,417.3	4,879.7	0.00	0.00	0.00	
15,800.0	90.65	359.62	10,539.7	4,979.7	1,416.6	4,979.7	0.00	0.00	0.00	
15,900.0	90.65	359.62	10,538.6	5,079.6	1,416.0	5,079.6	0.00	0.00	0.00	
16,000.0	90.65	359.62	10,537.4	5,179.6	1,415.3	5,179.6	0.00	0.00	0.00	
16,100.0	90.65	359.62	10,536.3	5,279.6	1,414.6	5,279.6	0.00	0.00	0.00	
16,200.0	90.65	359.62	10,535.2	5,379.6	1,414.0	5,379.6	0.00	0.00	0.00	
16,300.0	90.65	359.62	10,534.0	5,479.6	1,413.3	5,479.6	0.00	0.00	0.00	
16,400.0	90.65	359.62	10,532.9	5,579.6	1,412.7	5,579.6	0.00	0.00	0.00	
16,500.0	90.65	359.62	10,531.7	5,679.6	1,412.0	5,679.6	0.00	0.00	0.00	
16,600.0	90.65	359.62	10,530.6	5,779.6	1,411.3	5,779.6	0.00	0.00	0.00	
16,700.0	90.65	359.62	10,529.4	5,879.6	1,410.7	5,879.6	0.00	0.00	0.00	
16,800.0	90.65	359.62	10,528.3	5,979.6	1,410.0	5,979.6	0.00	0.00	0.00	
16,900.0	90.65	359.62	10,527.2	6,079.6	1,409.4	6,079.6	0.00	0.00	0.00	
17,000.0	90.65	359.62	10,526.0	6,179.5	1,408.7	6,179.5	0.00	0.00	0.00	
17,100.0	90.65	359.62	10,524.9	6,279.5	1,408.0	6,279.5	0.00	0.00	0.00	
17,200.0	90.65	359.62	10,523.7	6,379.5	1,407.4	6,379.5	0.00	0.00	0.00	
17,300.0	90.65	359.62	10,522.6	6,479.5	1,406.7	6,479.5	0.00	0.00	0.00	
17,400.0	90.65	359.62	10,521.4	6,579.5	1,406.0	6,579.5	0.00	0.00	0.00	
17,500.0	90.65	359.62	10,520.3	6,679.5	1,405.4	6,679.5	0.00	0.00	0.00	
17,600.0	90.65	359.62	10,519.2	6,779.5	1,404.7	6,779.5	0.00	0.00	0.00	
17,700.0	90.65	359.62	10,518.0	6,879.5	1,404.1	6,879.5	0.00	0.00	0.00	
17,800.0	90.65	359.62	10,516.9	6,979.5	1,403.4	6,979.5	0.00	0.00	0.00	
17,900.0	90.65	359.62	10,515.7	7,079.5	1,402.7	7,079.5	0.00	0.00	0.00	
18,000.0	90.65	359.62	10,514.6	7,179.5	1,402.1	7,179.5	0.00	0.00	0.00	
18,100.0	90.65	359.62	10,513.4	7,279.5	1,401.4	7,279.5	0.00	0.00	0.00	
18,200.0	90.65	359.62	10,512.3	7,379.4	1,400.8	7,379.4	0.00	0.00	0.00	
18,300.0	90.65	359.62	10,511.2	7,479.4	1,400.1	7,479.4	0.00	0.00	0.00	
18,400.0	90.65	359.62	10,510.0	7,579.4	1,399.4	7,579.4	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 504H - Slot ORE DIGGER FEDERAL 504H
Company:	DELAWARE BASIN WEST	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Project:	ZEUS WEST__NM_E	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site:	ORE DIGGER PROJECT	North Reference:	Grid
Well:	_ORE DIGGER FEDERAL 504H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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)	
18,500.0	90.65	359.62	10,508.9	7,679.4	1,398.8	7,679.4	0.00	0.00	0.00	
18,600.0	90.65	359.62	10,507.7	7,779.4	1,398.1	7,779.4	0.00	0.00	0.00	
18,700.0	90.65	359.62	10,506.6	7,879.4	1,397.4	7,879.4	0.00	0.00	0.00	
18,800.0	90.65	359.62	10,505.4	7,979.4	1,396.8	7,979.4	0.00	0.00	0.00	
18,900.0	90.65	359.62	10,504.3	8,079.4	1,396.1	8,079.4	0.00	0.00	0.00	
19,000.0	90.65	359.62	10,503.2	8,179.4	1,395.5	8,179.4	0.00	0.00	0.00	
19,100.0	90.65	359.62	10,502.0	8,279.4	1,394.8	8,279.4	0.00	0.00	0.00	
19,200.0	90.65	359.62	10,500.9	8,379.4	1,394.1	8,379.4	0.00	0.00	0.00	
19,300.0	90.65	359.62	10,499.7	8,479.3	1,393.5	8,479.3	0.00	0.00	0.00	
19,400.0	90.65	359.62	10,498.6	8,579.3	1,392.8	8,579.3	0.00	0.00	0.00	
19,500.0	90.65	359.62	10,497.4	8,679.3	1,392.2	8,679.3	0.00	0.00	0.00	
19,600.0	90.65	359.62	10,496.3	8,779.3	1,391.5	8,779.3	0.00	0.00	0.00	
19,700.0	90.65	359.62	10,495.2	8,879.3	1,390.8	8,879.3	0.00	0.00	0.00	
19,800.0	90.65	359.62	10,494.0	8,979.3	1,390.2	8,979.3	0.00	0.00	0.00	
19,900.0	90.65	359.62	10,492.9	9,079.3	1,389.5	9,079.3	0.00	0.00	0.00	
20,000.0	90.65	359.62	10,491.7	9,179.3	1,388.9	9,179.3	0.00	0.00	0.00	
20,100.0	90.65	359.62	10,490.6	9,279.3	1,388.2	9,279.3	0.00	0.00	0.00	
20,200.0	90.65	359.62	10,489.4	9,379.3	1,387.5	9,379.3	0.00	0.00	0.00	
20,300.0	90.65	359.62	10,488.3	9,479.3	1,386.9	9,479.3	0.00	0.00	0.00	
20,400.0	90.65	359.62	10,487.2	9,579.3	1,386.2	9,579.3	0.00	0.00	0.00	
20,500.0	90.65	359.62	10,486.0	9,679.2	1,385.5	9,679.2	0.00	0.00	0.00	
20,600.0	90.65	359.62	10,484.9	9,779.2	1,384.9	9,779.2	0.00	0.00	0.00	
20,700.0	90.65	359.62	10,483.7	9,879.2	1,384.2	9,879.2	0.00	0.00	0.00	
20,800.0	90.65	359.62	10,482.6	9,979.2	1,383.6	9,979.2	0.00	0.00	0.00	
20,900.0	90.65	359.62	10,481.4	10,079.2	1,382.9	10,079.2	0.00	0.00	0.00	
20,939.0	90.65	359.62	10,481.0	10,118.2	1,382.6	10,118.2	0.00	0.00	0.00	

Design Targets										
Target Name										
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting			
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude	
PBHL_ ORE DIGGER FE	0.00	179.62	10,481.0	10,118.2	1,382.6	564,933.34	717,974.14	32° 33' 4.030 N	103° 37' 33.321 W	
- plan hits target center										
- Rectangle (sides W100.0 H10,414.5 D20.0)										
LTP_ ORE DIGGER FEC	90.00	0.00	10,481.0	10,068.2	1,383.0	564,883.34	717,974.47	32° 33' 3.535 N	103° 37' 33.321 W	
- plan misses target center by 0.6usft at 20889.0usft MD (10481.6 TVD, 10068.2 N, 1383.0 E)										
- Circle (radius 50.0)										
FTP (ORE DIGGER FEI	0.00	0.00	10,594.0	-295.7	1,451.2	554,519.43	718,042.68	32° 31' 20.978 N	103° 37' 33.329 W	
- plan misses target center by 234.1usft at 10650.0usft MD (10434.7 TVD, -124.2 N, 1450.4 E)										
- Circle (radius 50.0)										

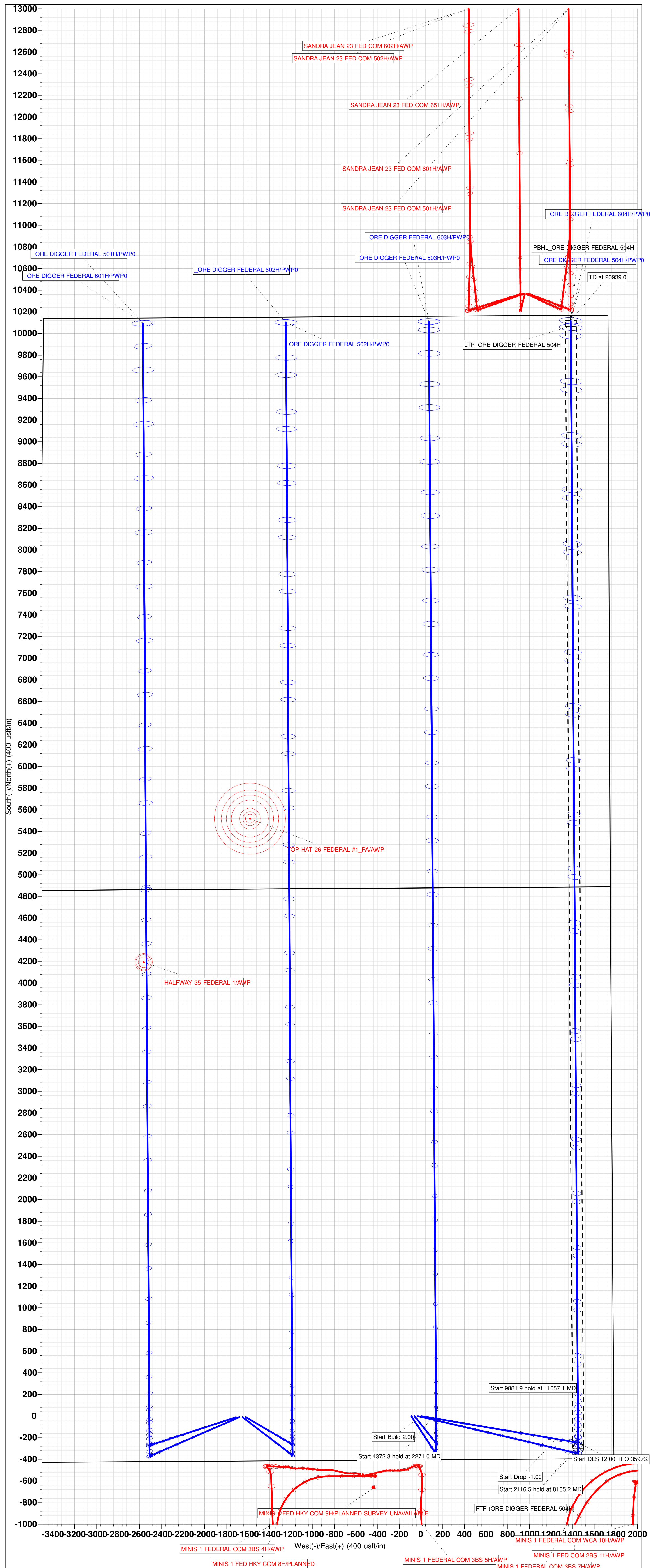
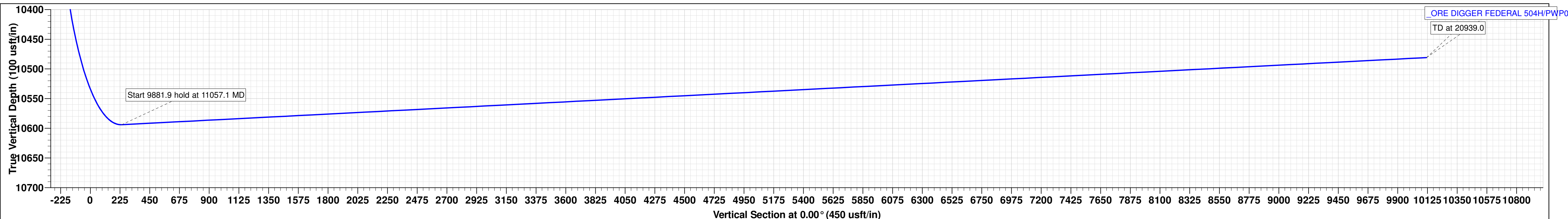
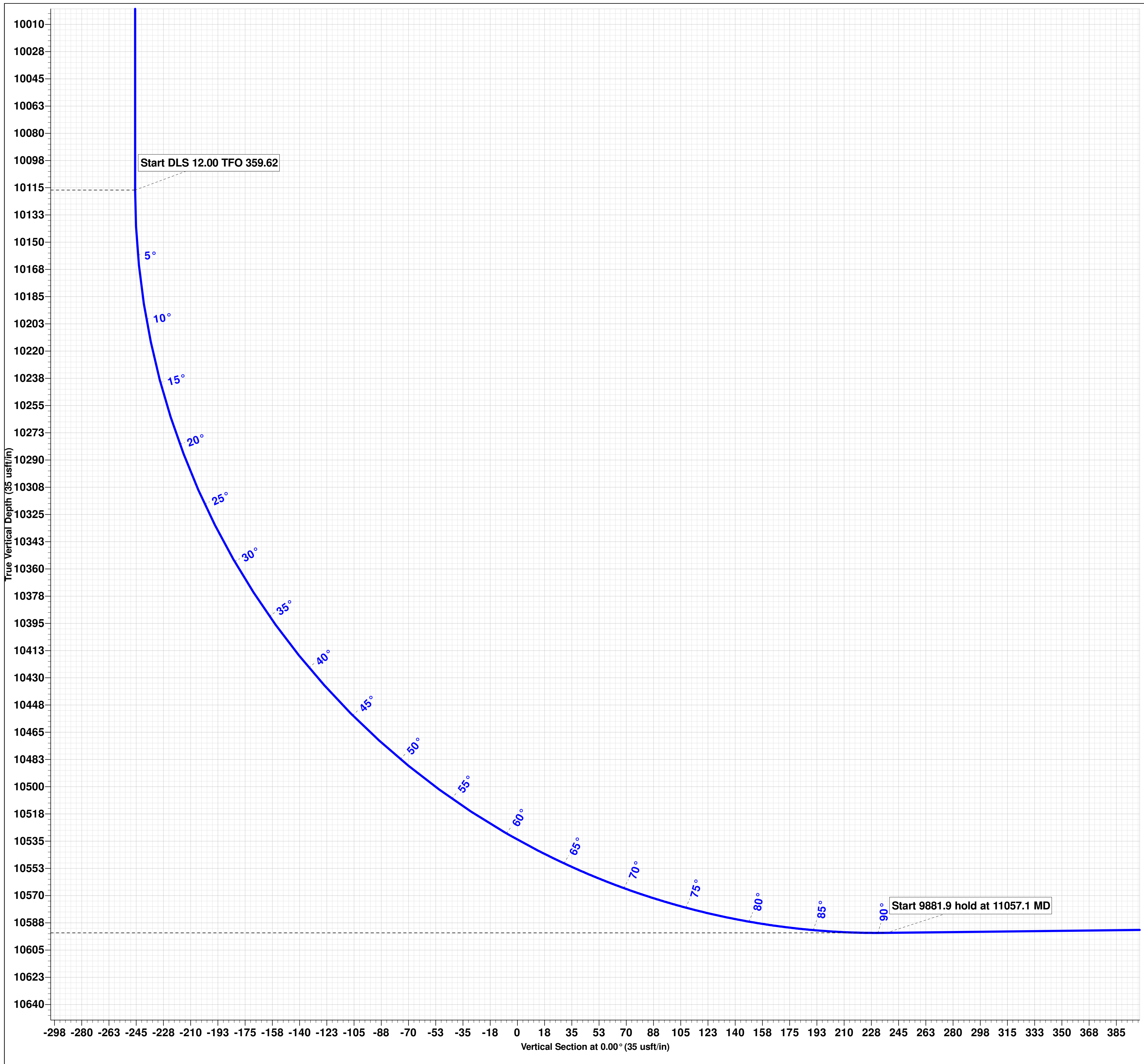
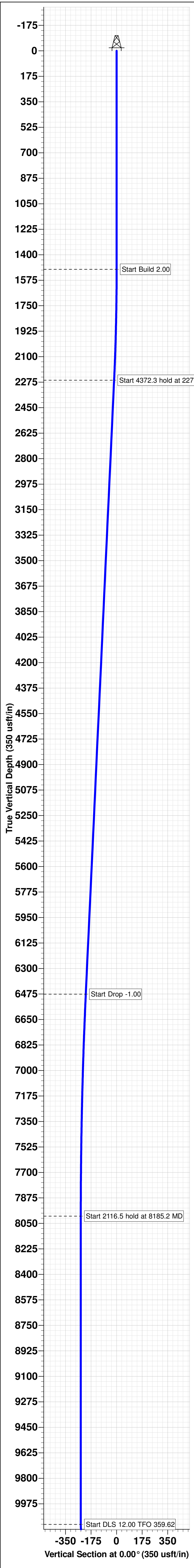
Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
20,939.1	10,481.0	5-1/2" Production Casing		5-1/2	6-3/4



Project: ZEUS WEST_NM_E
Site: ORE DIGGER PROJECT
Well: ORE DIGGER FEDERAL 504H
Wellbore: OWB
Design: PWP0

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0
2271.0	15.42	99.61	2261.7	-17.2	101.7	2.00	99.61	-17.2
6643.3	15.42	99.61	6476.6	-211.3	1247.9	0.00	0.00	-211.3
8185.2	0.00	0.00	8000.0	-245.7	1451.2	1.00	180.00	-245.7
10301.7	0.00	0.00	10116.5	-245.7	1451.2	0.00	0.00	-245.7
11057.1	90.65	359.62	10593.9	237.2	1448.0	12.00	359.62	237.2
20939.0	90.65	359.62	10481.0	10118.2	1382.6	0.00	0.00	10118.2



Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 509048

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 509048
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
matthew.gomez	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.	10/16/2025
matthew.gomez	Any previous COA's not addressed within the updated COA's still apply.	10/16/2025