

Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No.
NMNM12559

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.
TATER SALAD FEDERAL COM/905H

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
PURPLE SAGE/Wolfcamp, Gas

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)
SEC 24/T26S/R28E/NMP

11. Country or Parish, State
EDDY/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 requests approval for the following changes to the original approved APD.

API #30-015-57315
APD ID: 10400090941

Summary of changes:
No changes in targets
MD at TD changed to 21,004'
TVD of target changed to 10,493'
7-5/8" casing shoe @ 10,150' MD
Contingency cement program to include bradenhead cement job if severe losses are encountered
Request surface and intermediate cement jobs to be performed offline
Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
MAYTE REYES / Ph: (281) 293-1000

Regulatory Analyst

(Electronic Submission)
Signature

Date
02/04/2026

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by
CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved

Petroleum Engineer

02/18/2026

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

Additional Remarks

Request variance to perform BOPE break testing on intermediate skids

Drilling program, directional plan, AC report, bradenhead and break testing.

Location of Well

0. SHL: NENE / 225 FNL / 1150 FEL / TWSP: 26S / RANGE: 28E / SECTION: 24 / LAT: 32.034748 / LONG: -104.03591 (TVD: 0 feet, MD: 0 feet)

PPP: SWSE / 330 FSL / 2310 FEL / TWSP: 26S / RANGE: 28E / SECTION: 13 / LAT: 32.036263 / LONG: -104.039654 (TVD: 10513 feet, MD: 10992 feet)

PPP: SWNE / 1321 FNL / 2310 FEL / TWSP: 26S / RANGE: 28E / SECTION: 13 / LAT: 32.046265 / LONG: -104.039636 (TVD: 10547 feet, MD: 14301 feet)

BHL: NWNE / 200 FNL / 2310 FEL / TWSP: 26S / RANGE: 28E / SECTION: 12 / LAT: 32.063793 / LONG: -104.039603 (TVD: 10570 feet, MD: 21081 feet)

CONFIDENTIAL

BOPE Break Testing Variance

Initial and 21 Day Testing of 10K BOP's:

Component	High Test Pressure	Low Test Pressure	Duration
Annular Preventer	5,000 psig	250 psig	10 min
Rams	5,000 psig	250 psig	10 min
Manifold	5,000 psig	250 psig	10 min
Wellhead	1,500 psig	-	10 min
Upper / Lower / Kelly Valves	5,000 psig	250 psig	10 min
TIW safety valves / Dart	5,000 psig	250 psig	10 min
Standpipe and mud line to pumps	5,000 psig	250 psig	10 min
Surface Casing (with 8.4 ppg fluid)	1,500 psig	-	30 min

*Equipment satisfies 10M BOPE but break test variance applies to 5M system

COG Production LLC formally requests variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.a.i) to allow break/shell testing of blowout preventor (BOP) and blowout prevention equipment (BOPE) during batch drilling operations of the intermediate hole section. This variance only applies to 5M BOPE or less formation.

Initial testing of the BOP will be conducted, verifying all components of BOP, BOPE, and choke manifold meet the minimum and maximum anticipated surface pressure (MASP) in accordance with API RP 53 and Onshore Order No. 2, reference table above. Once initial test pressures are achieved, shell testing of the BOP and choke manifold would be conducted within the time limit from initial test to the congruent 21-day test. A complete pressure test of the BOPE components will be completed no later than 21 days following the completion of the initial pressure test or latest complete BOP pressure test date succeeding the initial test, per API RP 53 (6.5.3.4.1 (d)).

BOP and BOPE Testing

- Minimum of Class 3 stack arrangement with one set of blind/blind shear rams and pipe rams shall be installed for a 5K pressure rated system per API RP 53 (6.1.2.9)
 - Classification - COP minimum of Class 3 arrangement apply for all Delaware Basin area wells.
 - Arrangement - Annular preventer, upper pipe rams, blind rams, mud cross, lower pipe rams
- Complete BOP and BOPE test performed at initial installation on well pad.
 - Initial test performed on well with deepest planned intermediate hole section (allowable 200' TVD variance between intermediate hole sections)
 - Annular preventer tested to 100 percent of MASP, or 70 percent of rated working pressure (RWP), whichever is greater.
 - Notify BLM 4 Hrs. prior to testing
- Complete BOP and BOPE test every 21 days in accordance with API RP 53 (6.5.3.4.1 (d)).
- BOP/BOPE shell test (inclusive of manifold shell test) performed during batch drilling operations during rig transition between wells (within the 21-day time limit per API RP 53).
- Function test BOP elements per API RP 53 (6.5.3.1).
 - Required on (1) initial installation of stack, (2) every 7 days, (3) after repair/replacement of any control components
 - Alternate between drillers panel and remote panel

Securing the Wellhead

- Prior to moving rig off check for flow
 - Ensure floats are holding, casing is full of kill mud and backside is static.
- Secure the well with sleeve/plug with BPV
- Disconnect BOP from the wellhead and walk with the rig to another well on the pad.
 - Utilizing BOP wrangler/cradle, maintaining control and upright position of the BOP during movement
- Once BOP is separated from wellhead the Temporary Abandonment (TA) cap will be installed per Wellhead vendor procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.
- Test TA cap to 5,000 psi for 10 min.

COG Production LLC believes that the combination of drilling fluid inside the casing, abandonment plug with BPV, casing and annular valves and the TA cap provide multiple barriers to ensure complete closure of the wellbore prior to skidding/walking the rig.

Break Testing

- Skid rig over the next well on pad and center over wellhead, N/U BOP with the use of the BOP quick connect.
- Shell test the BOP and choke manifold to 5,000 psig and 250 psig. Hold each test for 10 minutes.
 - In accordance with API RP 53 (6.5.3.4.1(b)) BOP shell test will satisfy pressure test of quick connect seals
 - Notify BLM 4 hours prior to testing
- RWP of BOP quick connect is 10K (Certificate of Conformance attached)

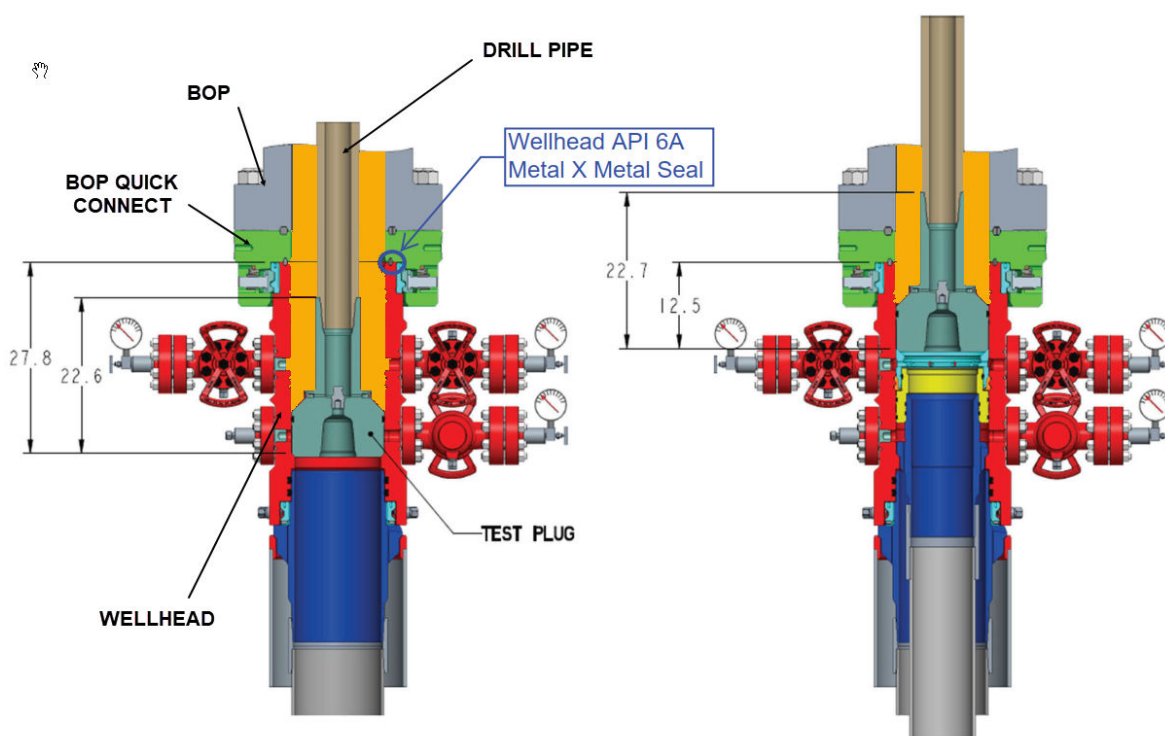


Figure 1: Test plug installed (The orange sections above indicate the areas exposed to the pressure test)

Example Well Control Plan Content

A. Well Control Component Table

This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the BOP nipped up to the wellhead.

Intermediate hole section, 5M requirement

Component	RWP
Pack-off	10M
Casing Wellhead Valves	10M
Annular Wellhead Valves	5M
TA Plug	10M
Float Valves	5M
2" 1502 Lo-Torque Valves	10M

B. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while circulating.

General Procedure

1. Sound alarm (alert crew).
2. Shut down pumps.
3. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
4. Confirm shut in.
5. Notify tool pusher/company representative.
6. Read and record the following:
 - a. SICP (Shut in Casing Pressure) and AP (Annular Pressure)
 - b. Pit gain
 - c. Time
 - d. Regroup and identify forward plan to continue circulating out kick via rig choke and mud/gas separator. Circulate and adjust mud density as needed to control well.

COG Production LLC requests variance to pump 1st Intermediate (9-5/8") Offline. Will pump conventional cement job as planned and outlined in approved APD/Sundry.

Wellhead & Offline Cementing:

COG Production LLC respectfully requests a variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.a.i) to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with Batch Drilling & Offline cement operations to include the following:

- Full BOPE test at first installation on the pad.
- Full BOPE test every 21 days per Onshore Order No. 2.
- Function test BOP elements per Onshore Order No. 2.
- After the well section is secured, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad.
- TA cap will also be installed per Wellhead vendor procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.
- See attached "Offline Cement Intermediate Operational Procedure"

COG Production LLC believes that the combination of drilling fluid inside the casing, the abandonment plug with BPV, casing and annular valves and the TA cap provide multiple barriers to ensure complete closure of the wellbore prior to skidding/walking the rig.

Summarized Operational Procedure for Intermediate Casing

1. Run casing as per normal operations.
 - a. Float equipment is equipped with two back pressure valves rated to a minimum of 5,000 psi.
2. Land intermediate casing on mandrel hanger through BOP.
 - a. If casing is unable to be landed with a mandrel hanger, then the **casing will be cemented online.**
 - b. If time from landing mandrel hanger to skidding/walking rig off well exceeds 8 hours, BLM will be notified.
3. Break circulation and confirm no restrictions.
 - a. Ensure no blockage of float equipment and appropriate annular returns.
 - b. Perform flow check to confirm well is static.
4. Set pack-off
 - a. If utilizing a fluted/ported mandrel hanger, ensure well is static on the annulus and inside the casing by ensuring pipe is full of drilling fluid, remove landing joint, and set annular packoff through BOP. Pressure test to 5,000 psi for 10 min.
 - b. If utilizing a solid mandrel hanger, ensure well is static on the annulus and inside the casing by ensuring pipe is full of drilling fluid. Pressure test seals to 5,000 psi for 10 min. Remove landing joint through BOP.
5. After confirmation of both annular barriers and the two casing barriers, install TA plug/BPV and pressure test to 5,000 psi for 10 min. Notify the BLM with intent to proceed with nipple down and offline cementing.
6. With the well secured and BLM notified, nipple down BOP and secure on BOP handler.
 - a. **Note, if any of the barriers fail to test, the BOP stack will not be nipped down until after the cement job has concluded and tail cement has reached 500 psi**
7. Skid/Walk rig off current well.
8. Confirm well is static before removing TA Plug.
 - a. Cementing operations will not proceed until well is under control. (If well is not static, notify BLM and proceed to kill)
 - b. Casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing, if needed.
 - c. Well control plan can be seen in Section B, Well Control Procedures.
 - d. If need be, rig can be moved back over well and BOP nipped back up for any further remediation.
9. Rig up return lines to take returns from wellhead to pits and rig choke.
 - a. Test all connections and lines from wellhead to choke manifold to 5,000 psi high for 10 min.
 - b. If either test fails, perform corrections and retest before proceeding.
 - c. Return line schematics can be seen in Figure 2.
10. Remove TA Plug/BPV from the casing.
11. Install offline cement tool.
 - a. Current offline cement tool schematics can be seen in Figure 1 (Streamflo)
12. Rig up cement head and cementing lines.
 - a. Pressure test cement lines against cement head to 80% of casing burst for 10 min.
13. Break circulation on well to confirm no restrictions.
 - a. If gas is present on circulation, well will be shut in and returns rerouted through gas buster.
 - b. Max anticipated time before circulating with cement truck is 6 hrs.
14. Pump cement job as per plan.
 - a. At plug bump, test casing to 0.22 psi/ft or 1500 psi, whichever is greater.
 - b. If plug does not bump on calculated displacement, shut down and wait 8 hrs or 500 psi compressive strength, whichever is greater before testing casing.

6. Confirm well is static and floats are holding after cement job.
 - a. With floats holding and backside static:
 - i. Remove cement head.
 - b. If floats are leaking:
 - i. Shut-in well and WOC (Wait on Cement) until tail slurry reaches 500 psi compressive strength and the casing is static prior to removing cement head.
 - c. If there is flow on the backside:
 - i. Shut in well and WOC until tail slurry reaches 500 psi compressive strength. Ensure that the casing is static prior to removing cement head.
7. Remove offline cement tool.
8. Install night cap with pressure gauge for monitoring.
9. Test night cap to 5,000 psi for 10 min.

Example Well Control Plan Content

A. Well Control Component Table

The table below, which covers the cementing of the **5M MASP (Maximum Allowable Surface Pressure) portion of the well**, outlines the well control component rating in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the BOP nipped up to the wellhead.

Intermediate hole section, 5M requirement

Component	RWP
Pack-off	10M
Casing Wellhead Valves	10M
Annular Wellhead Valves	5M
TA Plug	10M
Float Valves	5M
2" 1502 Lo-Torque Valves	10M

B. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while circulating and cementing through the Offline Cement Adapter.

General Procedure While Circulating

1. Sound alarm (alert crew).
2. Shut down pumps.
3. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
4. Confirm shut-in.
5. Notify tool pusher/company representative.
6. Read and record the following:
 - a. SICP (Shut in Casing Pressure) and AP (Annular Pressure)
 - b. Pit gain
 - c. Time
 - d. Regroup and identify forward plan to continue circulating out kick via rig choke and mud/gas separator. Circulate and adjust mud density as needed to control well.

General Procedure While Cementing

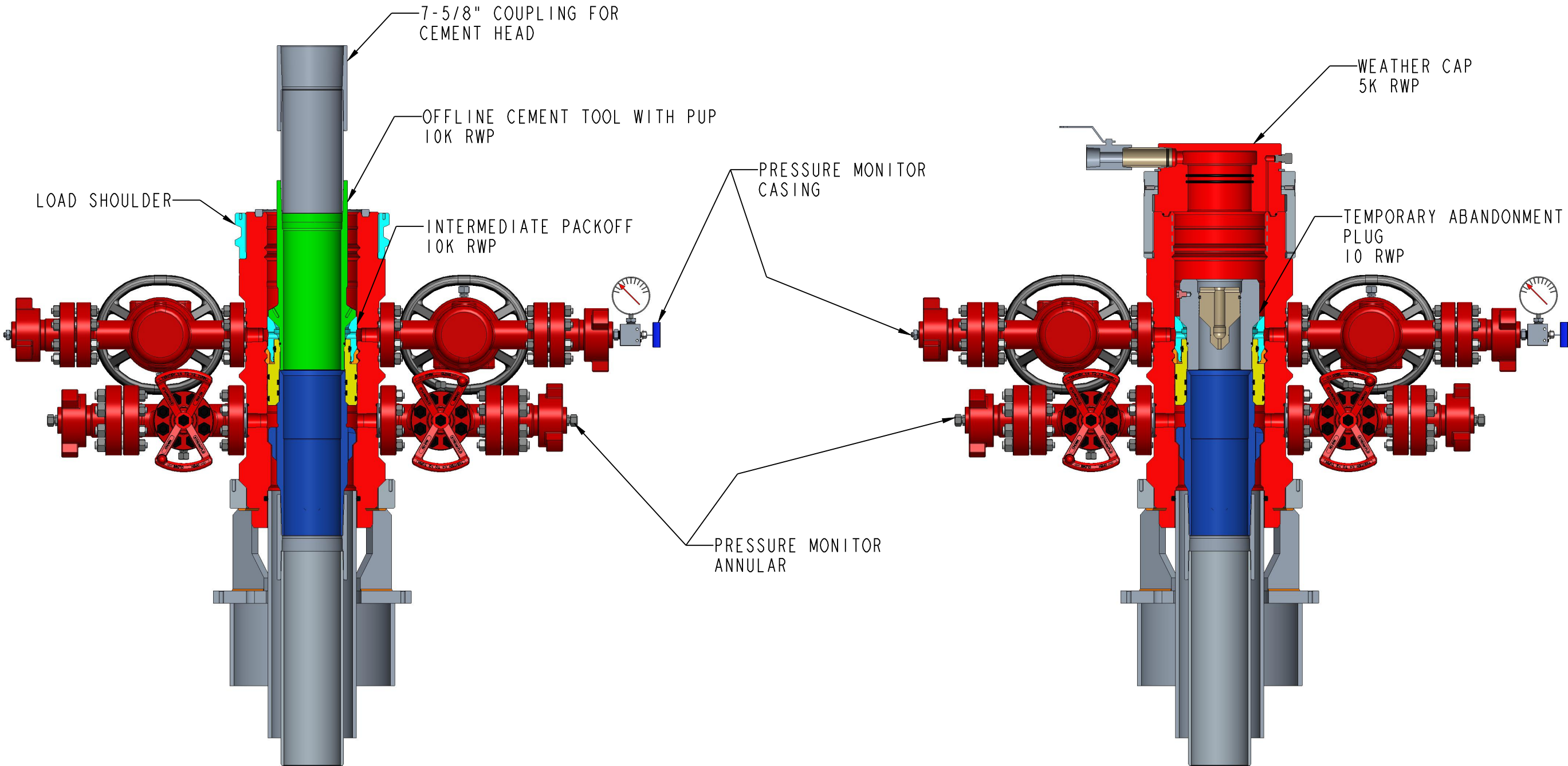
1. Sound alarm (alert crew).
2. Shut down pumps.
3. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
4. Confirm shut-in.
5. Notify tool pusher/company representative.
6. Open rig choke and begin pumping again taking returns through choke manifold and mud/gas separator.

7. Continue to place cement until plug bumps.
8. At plug bump close rig choke and cement head.
9. Read and record the following
 - a. SICP and AP
 - b. Pit gain
 - c. Time
 - d. Shut-in annulus valves on wellhead

General Procedure After Cementing

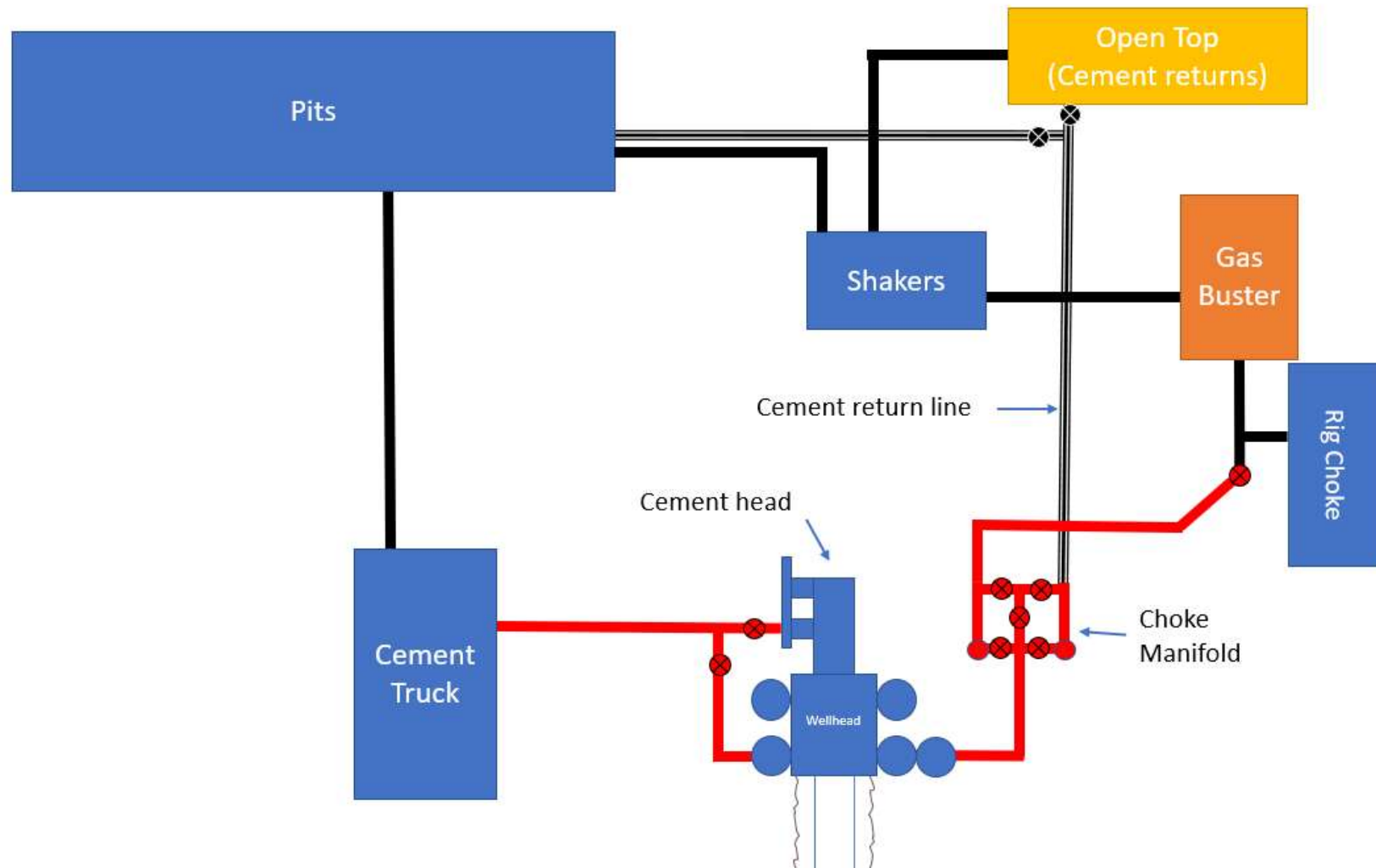
1. Sound alarm (alert crew).
2. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
3. Confirm shut-in.
4. Notify tool pusher/company representative.
5. Read and record the following:
 - a. SICP and AP
 - b. Pit gain
 - c. Time
 - d. Shut-in annulus valves on wellhead

Figure 1: Offline Cement Tool Schematics



CONOCOPHILLIPS COMPANY 7-5/8" OFFLINE CEMENT AND ABANDAMENT PLUG LAYOUT DMLX WELLHEAD ASSEMBLY		DWN.	CWB	03-09-23	 Worldwide Expertise - Global Strength	DRAWING No. WH-24621
		CHK.				
		APPR.				
			BY	DATE		
XX-XXXX XX-XXXX	Commonspace		WH-24621		WH-24621	

Figure 2: Back Yard Rig Up



*All lines rated to 10M working pressure

**Cement head rated to 7.5M working pressure

Casing Program:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
11,945' 9-7/8"	465	15.6	1.196	1st Stage: Halliburton Halcem (TOC @ Brushy Canyon)
	1000	14.8	1.519	2nd Stage (Bradenhead squeeze): Halliburton Thixotropic Halcem + 5% Cal-Seal 60, .6% HR-800 + 10% Salt + 3% Microbond
	400	14.8	1.332	Top out Slurry: Halliburton Halcem (TOC @ surface)

COG Production LLC requests variance from minimum standards to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon and the second stage performed as a 1000 sack bradenhead squeeze with planned cement from the Brushy Canyon to surface. After the bradenhead squeeze, 50 sacks of the 14.8 ppg top out slurry will be pumped followed by shutting down and waiting on cement (WOC) 2 hours. After 2 hours, if necessary, a top out consisting of 350 sacks of Halliburton's Halcem at 14.8 ppg (1.332 yld) will be executed as a contingency. When washing valves, 2 bbls of water will be utilized. If the valves still contain cement, washing will occur in 1 bbl increments up to a maximum of 5 bbls.

COG Production will run a cement bond log (CBL) after the cement job is performed to evaluate the quality of the cement job.

Wellhead & Offline Cementing:

COG Production LLC respectfully requests a variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.a.i) to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with Batch Drilling & Offline cement operations to include the following:

- Full BOPE test at first installation on the pad.
- Full BOPE test every 21 days per Onshore Order No. 2.
- Function test BOP elements per Onshore Order No. 2.
- After the well section is secured, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad.
- TA cap will also be installed per Wellhead vendor procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.
- See attached "Offline Cement Intermediate Operational Procedure"

COG Production LLC believes that the combination of drilling fluid inside the casing, the abandonment plug with BPV, casing and annular valves and the TA cap provide multiple barriers to ensure complete closure of the wellbore prior to skidding/walking the rig.

Bradenhead Cementing Procedure for Intermediate Casing

1. R/U cement head and test lines
2. Pump first stage conventionally down the 7-5/8" intermediate casing
 - a. 15.6 ppg slurry with TOC @ the Brushy Canyon
3. Displace with drilling fluid and bump plug
4. Bump at 500 psi over FCP, hold 5 mins.
5. Bleed back to cement truck to check floats
6. Rig up on 10-3/4" x 7-5/8" annulus by lining up to pump down both valves.
7. Establish injection rate and displace annulus with FW
8. Pump bradenhead squeeze with 14.8 ppg thixotropic slurry
 - a. Limit pressure to 1500 psi (10-3/4" surf csg test)
9. After pumping 14.8 ppg thixotropic slurry, pump 50 sacks of 14.8 ppg top out slurry to flush valves of thixotropic cement.
10. WOC 2 hours
11. Top out with 350 sacks of 14.8 ppg top out slurry. If more cement is necessary, note in report and notify BLM.
12. Displace cement with fresh water and clear valves. Start with 2 bbls of fresh water. If more water is necessary, 1 bbl increments will be used to a maximum of 5 bbls.
13. Shut down and monitor the shut-in pressure on the 10-3/4" x 7-5/8" annulus.

Summarized Operational Procedure for Intermediate Casing

1. Run casing as per normal operations.
 - a. Float equipment is equipped with two back pressure valves rated to a minimum of 5,000 psi.
2. Land intermediate casing on mandrel hanger through BOP.
 - a. If casing is unable to be landed with a mandrel hanger, then the **casing will be cemented online.**
 - b. If time from landing mandrel hanger to skidding/walking rig off well exceeds 8 hours, BLM will be notified.
3. Break circulation and confirm no restrictions.
 - a. Ensure no blockage of float equipment and appropriate annular returns.
 - b. Perform flow check to confirm well is static.
4. Set pack-off
 - a. If utilizing a fluted/ported mandrel hanger, ensure well is static on the annulus and inside the casing by ensuring pipe is full of drilling fluid, remove landing joint, and set annular packoff through BOP. Pressure test to 5,000 psi for 10 min.
 - b. If utilizing a solid mandrel hanger, ensure well is static on the annulus and inside the casing by ensuring pipe is full of drilling fluid. Pressure test seals to 5,000 psi for 10 min. Remove landing joint through BOP.
5. After confirmation of both annular barriers and the two casing barriers, install TA plug/BPV and pressure test to 5,000 psi for 10 min. Notify the BLM with intent to proceed with nipple down and offline cementing.

- a. Minimum 4 hrs notice.
6. With the well secured and BLM notified, nipple down BOP and secure on BOP handler.
 - a. **Note, if any of the barriers fail to test, the BOP stack will not be nipped down until after the cement job has concluded and tail cement has reached 500 psi**
7. Skid/Walk rig off current well.
8. Confirm well is static before removing TA Plug.
 - a. Cementing operations will not proceed until well is under control. (If well is not static, notify BLM and proceed to kill)
 - b. Casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing, if needed.
 - c. Well control plan can be seen in Section B, Well Control Procedures.
 - d. If need be, rig can be moved back over well and BOP nipped back up for any further remediation.
9. Rig up return lines to take returns from wellhead to pits and rig choke.
 - a. Test all connections and lines from wellhead to choke manifold to 5,000 psi high for 10 min.
 - b. If either test fails, perform corrections and retest before proceeding.
 - c. Return line schematics can be seen in Figure 2.
10. Remove TA Plug/BPV from the casing.
11. Install offline cement tool.
 - a. Current offline cement tool schematics can be seen in Figure 1 (Streamflo)
12. Rig up cement head and cementing lines.
 - a. Pressure test cement lines against cement head to 80% of casing burst for 10 min.
13. Break circulation on well to confirm no restrictions.
 - a. If gas is present on circulation, well will be shut in and returns rerouted through gas buster.
 - b. Max anticipated time before circulating with cement truck is 6 hrs.
14. Pump cement job as per plan.
 - a. At plug bump, test casing to 0.22 psi/ft or 1500 psi, whichever is greater.
 - b. If plug does not bump on calculated displacement, shut down and wait 8 hrs or 500 psi compressive strength, whichever is greater before testing casing.
15. Confirm well is static and floats are holding after cement job.
 - a. With floats holding and backside static:
 - i. Remove cement head.
 - b. If floats are leaking:
 - i. Shut-in well and WOC (Wait on Cement) until tail slurry reaches 500 psi compressive strength and the casing is static prior to removing cement head.
 - c. If there is flow on the backside:
 - i. Shut in well and WOC until tail slurry reaches 500 psi compressive strength. Ensure that the casing is static prior to removing cement head.
16. Remove offline cement tool.
17. Install night cap with pressure gauge for monitoring.
18. Test night cap to 5,000 psi for 10 min.

Example Well Control Plan Content

A. Well Control Component Table

The table below, which covers the cementing of the **5M MASP (Maximum Allowable Surface Pressure) portion of the well**, outlines the well control component rating in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the BOP nipped up to the wellhead.

Intermediate hole section, 5M requirement

Component	RWP
Pack-off	10M
Casing Wellhead Valves	10M
Annular Wellhead Valves	5M
TA Plug	10M
Float Valves	5M
2" 1502 Lo-Torque Valves	10M

B. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while circulating and cementing through the Offline Cement Adapter.

General Procedure While Circulating

1. Sound alarm (alert crew).
2. Shut down pumps.
3. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
4. Confirm shut-in.
5. Notify tool pusher/company representative.
6. Read and record the following:
 - a. SICP (Shut in Casing Pressure) and AP (Annular Pressure)
 - b. Pit gain
 - c. Time
 - d. Regroup and identify forward plan to continue circulating out kick via rig choke and mud/gas separator. Circulate and adjust mud density as needed to control well.

General Procedure While Cementing

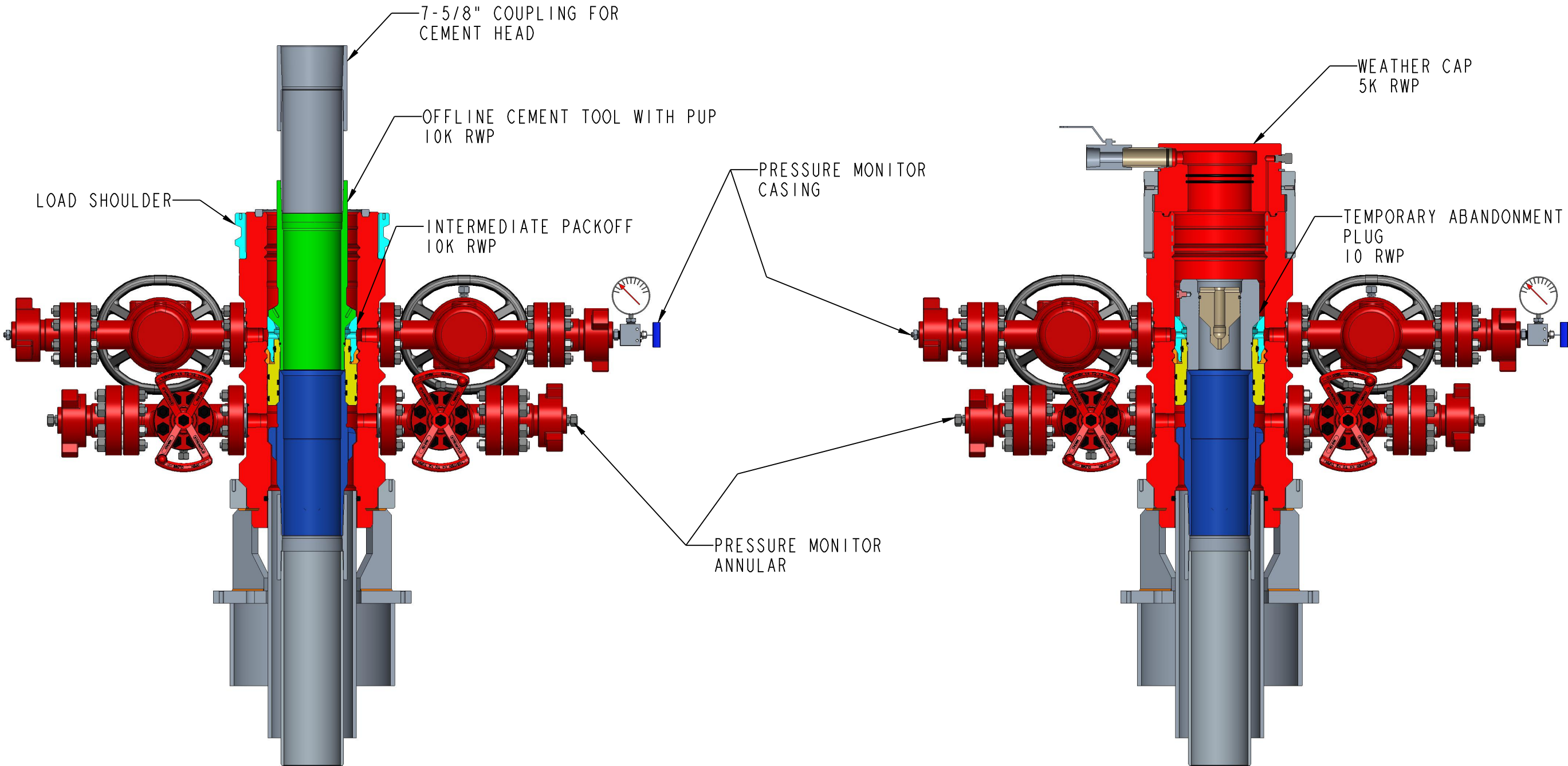
1. Sound alarm (alert crew).
2. Shut down pumps.
3. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
4. Confirm shut-in.
5. Notify tool pusher/company representative.
6. Open rig choke and begin pumping again taking returns through choke manifold and mud/gas separator.

7. Continue to place cement until plug bumps.
8. At plug bump close rig choke and cement head.
9. Read and record the following
 - a. SICP and AP
 - b. Pit gain
 - c. Time
 - d. Shut-in annulus valves on wellhead

General Procedure After Cementing

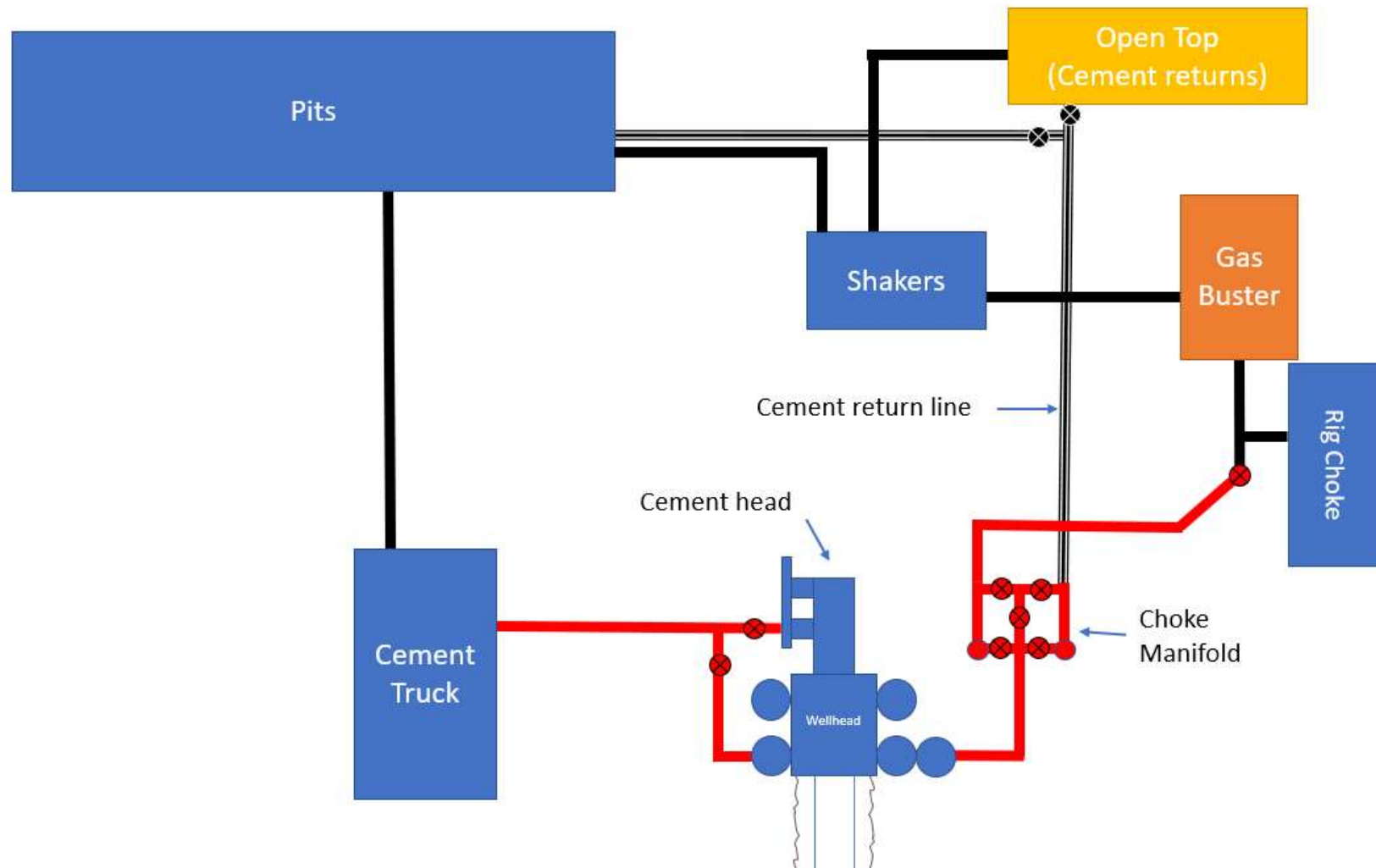
1. Sound alarm (alert crew).
2. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
3. Confirm shut-in.
4. Notify tool pusher/company representative.
5. Read and record the following:
 - a. SICP and AP
 - b. Pit gain
 - c. Time
 - d. Shut-in annulus valves on wellhead

Figure 1: Offline Cement Tool Schematics



CONOCOPHILLIPS COMPANY 7-5/8" OFFLINE CEMENT AND ABANDAMENT PLUG LAYOUT DMLX WELLHEAD ASSEMBLY	DWN.	CWB	03-09-23	 Worldwide Expertise - Global Strength	DRAWING No. WH-24621
	CHK.				
	APPR.				
		BY	DATE		
XX-XXXX XX-XXXX	Commonspace		WH-24621		WH-24621

Figure 2: Back Yard Rig Up



*All lines rated to 10M working pressure

**Cement head rated to 7.5M working pressure

DELAWARE BASIN WEST

ATLAS PROSPECT_NME

TATER SALAD & MOMBA FEDERAL

TATER SALAD FEDERAL COM 905H

300155731500

OWB

PWP2

Anticollision Report

31 January, 2026

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Reference	PWP2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,000.00usft	Error Surface:	Combined Pedal Curve
Warning Levels Evaluated at:	2.79 Sigma	Casing Method:	Added to Error Values

Survey Tool Program	Date	1/31/2026		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	2,000.00	PWP2 (OWB)	r.5 MWD+IFR1+SAG+FDIR	OWSG MWD + IFR1 + SAG + FDIR Corr.
2,000.00	10,148.00	PWP2 (OWB)	r.5 MWD+IFR1+SAG+FDIR	OWSG MWD + IFR1 + SAG + FDIR Corr.
10,148.00	21,004.34	PWP2 (OWB)	r.5 MWD+IFR1+SAG+FDIR	OWSG MWD + IFR1 + SAG + FDIR Corr.

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						
TATER SALAD & MOMBA FEDERAL						
COTTONMOUTH 13 FEDERAL COM 1H - OWB - AWP	7,183.30	7,902.00	763.58	730.28	22.929 CC, ES	
COTTONMOUTH 13 FEDERAL COM 1H - OWB - AWP	7,200.00	7,902.00	763.78	730.44	22.908 SF	
DELAWARE RANCH 13 24 W1CN FEDERAL COM 1H -	9,731.24	14,818.45	809.57	673.49	5.949 CC, ES, SF	
MOMBA 24 FEDERAL COM 1H (P&A) - OWB - AWP	0.00	0.00	463.67			
MOMBA 24 FEDERAL COM 1H (P&A) - OWB - AWP	2,700.00	2,665.26	575.04	557.89	33.525 SF	
MOMBA 24 FEDERAL COM 3H - OWB - AWP	8,135.84	8,023.77	63.13	30.73	1.948 Caution - Monitor Closely, CC, ES, SF	
MOMBA FEDERAL COM 701H - OWB - AWP	3,169.87	3,145.60	516.73	504.96	43.899 CC, ES	
MOMBA FEDERAL COM 701H - OWB - AWP	3,700.00	3,647.97	545.40	532.35	41.784 SF	
MOMBA FEDERAL COM 702H - OWB - AWP	3,358.11	3,317.67	564.99	552.87	46.604 CC, ES	
MOMBA FEDERAL COM 702H - OWB - AWP	4,600.00	4,522.65	658.33	642.75	42.245 SF	
MOMBA FEDERAL COM 703H - OWB - AWP	9,954.62	10,168.99	255.24	226.72	8.949 CC, ES, SF	
MOMBA FEDERAL COM 901H - OWB - PWP1	3,433.95	3,391.36	742.80	729.91	57.613 CC, ES	
MOMBA FEDERAL COM 901H - OWB - PWP1	4,500.00	4,393.12	827.48	811.69	52.423 SF	
MOMBA FEDERAL COM 902H - OWB - PWP2	3,807.40	3,749.23	742.60	728.18	51.492 CC, ES	
MOMBA FEDERAL COM 902H - OWB - PWP2	5,400.00	5,287.57	849.32	830.35	44.754 SF	
MOMBA FEDERAL COM 903H - OWB - PWP2	10,775.00	11,021.60	357.28	319.96	9.573 SF	
MOMBA FEDERAL COM 903H - OWB - PWP2	11,131.64	10,596.34	300.96	271.82	10.330 CC, ES	
TATER SALAD FEDERAL COM 701H - OWB - PWP2	1,966.33	1,967.33	203.91	192.57	17.986 CC	
TATER SALAD FEDERAL COM 701H - OWB - PWP2	2,000.00	2,000.00	203.91	192.47	17.825 ES	
TATER SALAD FEDERAL COM 701H - OWB - PWP2	2,100.00	2,094.18	207.28	195.40	17.459 SF	
TATER SALAD FEDERAL COM 702H - OWB - PWP2	2,000.00	2,001.00	200.92	189.48	17.562 CC, ES	
TATER SALAD FEDERAL COM 702H - OWB - PWP2	2,200.00	2,200.85	207.86	195.72	17.118 SF	
TATER SALAD FEDERAL COM 703H - OWB - PWP2	2,553.75	2,593.40	197.62	183.80	14.291 CC, ES	
TATER SALAD FEDERAL COM 703H - OWB - PWP2	5,600.00	5,619.48	416.60	386.54	13.863 SF	
TATER SALAD FEDERAL COM 704H - OWB - PWP2	3,375.82	3,414.24	81.53	65.14	4.975 CC	
TATER SALAD FEDERAL COM 704H - OWB - PWP2	3,600.00	3,638.19	82.15	64.83	4.743 ES	
TATER SALAD FEDERAL COM 704H - OWB - PWP2	9,734.00	9,839.98	123.47	75.70	2.585 Normal Operations, SF	
TATER SALAD FEDERAL COM 901H - OWB - PWP2	2,000.00	2,000.10	40.00	28.56	3.497 CC	
TATER SALAD FEDERAL COM 901H - OWB - PWP2	2,100.00	2,100.08	40.05	28.33	3.418 ES	
TATER SALAD FEDERAL COM 901H - OWB - PWP2	2,200.00	2,199.94	40.66	28.68	3.395 SF	
TATER SALAD FEDERAL COM 902H - OWB - PWP2	2,124.00	2,124.14	19.62	7.83	1.665 Caution - Monitor Closely, CC, ES, SF	
TATER SALAD FEDERAL COM 903H - OWB - PWP2	1,966.63	1,966.73	40.00	28.66	3.528 CC	
TATER SALAD FEDERAL COM 903H - OWB - PWP2	2,000.00	2,000.00	40.00	28.56	3.497 ES	
TATER SALAD FEDERAL COM 903H - OWB - PWP2	2,100.00	2,099.28	41.00	29.26	3.491 SF	
TATER SALAD FEDERAL COM 904H - OWB - PWP2	2,000.00	2,000.00	20.00	8.56	1.748 Caution - Monitor Closely, CC	

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
TATER SALAD & MOMBA FEDERAL						
TATER SALAD FEDERAL COM 904H - OWB - PWP2	2,100.00	2,099.89	20.26	8.54	1.729	Caution - Monitor Closely, ES, SF

Offset Design: TATER SALAD & MOMBA FEDERAL - COTTONMOUTH 13 FEDERAL COM 1H - OWB - AWP													Offset Site Error: 0.00 usft	
Survey Program: 100-Standard Keeper 104, 6470-MWD - OWSG R1													Offset Well Error: 3.00 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	
6,600.00	6,470.01	7,902.00	7,023.99	14.23	19.75	-2.23	-28.37	-1,863.35	984.01	954.72	29.29	33.594		
6,700.00	6,569.18	7,902.00	7,023.99	14.41	19.75	-2.20	-28.37	-1,863.35	920.64	890.56	30.08	30.610		
6,800.00	6,668.57	7,902.00	7,023.99	14.59	19.75	-2.17	-28.37	-1,863.35	865.72	834.82	30.90	28.019		
6,900.00	6,768.13	7,902.00	7,023.99	14.76	19.75	-2.15	-28.37	-1,863.35	820.96	789.26	31.71	25.893		
7,000.00	6,867.84	7,902.00	7,023.99	14.93	19.75	-2.14	-28.37	-1,863.35	788.11	755.68	32.43	24.300		
7,100.00	6,967.67	7,902.00	7,023.99	15.09	19.75	-2.13	-28.37	-1,863.35	768.71	735.71	33.00	23.295		
7,183.30	7,050.90	7,902.00	7,023.99	15.21	19.75	-2.13	-28.37	-1,863.35	763.58	730.28	33.30	22.929 CC, ES		
7,200.00	7,067.58	7,902.00	7,023.99	15.24	19.75	-2.13	-28.37	-1,863.35	763.78	730.44	33.34	22.908 SF		
7,300.00	7,167.55	7,902.00	7,023.99	15.38	19.75	-2.13	-28.37	-1,863.35	773.62	740.18	33.43	23.139		
7,385.37	7,252.92	7,919.92	7,024.59	15.44	19.97	-93.49	-46.24	-1,862.34	792.99	759.63	33.36	23.769		
7,400.00	7,267.55	7,920.25	7,024.60	15.45	19.98	-93.52	-46.57	-1,862.32	797.32	764.01	33.32	23.930		
7,500.00	7,367.55	7,922.53	7,024.68	15.51	20.00	-93.69	-48.85	-1,862.21	833.25	800.26	32.99	25.259		
7,600.00	7,467.55	7,924.83	7,024.76	15.56	20.03	-93.86	-51.15	-1,862.10	879.13	846.57	32.57	26.995		
7,700.00	7,567.55	7,927.15	7,024.84	15.61	20.06	-94.04	-53.46	-1,861.99	933.50	901.37	32.13	29.056		
7,800.00	7,667.55	7,929.48	7,024.92	15.65	20.09	-94.21	-55.79	-1,861.88	994.97	963.25	31.72	31.371		

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - DELAWARE RANCH 13 24 W1CN FEDERAL COM 1H - OWB - AWP												Offset Site Error:	0.00 usft
Survey Program: 198-MWD - OWSG R1												Offset Well Error:	3.00 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)			
9,200.00	9,067.55	14,837.00	9,598.07	16.36	96.08	-91.31	-18.56	-1,913.93	968.10	848.38	119.72	8.086	
9,300.00	9,167.55	14,834.12	9,598.18	16.41	96.04	-91.11	-15.68	-1,913.93	917.12	792.82	124.30	7.378	
9,400.00	9,267.55	14,830.50	9,598.32	16.47	95.98	-90.85	-12.06	-1,913.92	874.63	746.06	128.57	6.803	
9,500.00	9,367.55	14,826.88	9,598.46	16.52	95.93	-90.60	-8.44	-1,913.92	841.91	709.72	132.18	6.369	
9,600.00	9,467.55	14,823.24	9,598.60	16.57	95.87	-90.34	-4.81	-1,913.92	820.13	685.36	134.77	6.085	
9,700.00	9,567.55	14,819.60	9,598.75	16.63	95.81	-90.08	-1.17	-1,913.91	810.18	674.17	136.01	5.957	
9,731.24	9,598.79	14,818.45	9,598.79	16.64	95.80	-90.00	-0.02	-1,913.91	809.57	673.49	136.09	5.949	CC, ES, SF
9,800.00	9,667.55	14,815.94	9,598.89	16.68	95.76	-89.82	2.49	-1,913.91	812.48	676.75	135.73	5.986	
9,900.00	9,767.55	14,812.27	9,599.04	16.73	95.70	-89.56	6.16	-1,913.92	826.95	692.97	133.98	6.172	
10,000.00	9,867.55	14,808.58	9,599.18	16.79	95.64	-89.30	9.84	-1,913.92	852.96	721.96	131.00	6.511	
10,100.00	9,967.55	14,806.00	9,599.28	16.84	95.60	-89.12	12.42	-1,913.92	889.49	762.32	127.18	6.994	
10,148.00	10,015.55	14,806.00	9,599.28	16.85	95.60	-89.12	12.42	-1,913.92	910.41	785.16	125.26	7.268	
10,150.00	10,017.55	14,806.00	9,599.28	16.85	95.60	-87.00	12.42	-1,913.92	911.33	786.16	125.17	7.281	
10,175.00	10,042.54	14,806.00	9,599.28	16.86	95.60	-85.41	12.42	-1,913.92	923.03	798.93	124.10	7.438	
10,200.00	10,067.45	14,800.10	9,599.51	16.87	95.51	-83.34	18.31	-1,913.93	935.14	812.23	122.91	7.608	
10,225.00	10,092.22	14,796.99	9,599.62	16.87	95.46	-81.42	21.42	-1,913.94	947.62	825.86	121.76	7.783	
10,250.00	10,116.78	14,793.02	9,599.75	16.87	95.40	-79.39	25.39	-1,913.94	960.40	839.80	120.60	7.963	
10,275.00	10,141.06	14,788.23	9,599.89	16.87	95.33	-77.28	30.18	-1,913.95	973.43	854.00	119.44	8.150	
10,300.00	10,165.00	14,782.65	9,600.04	16.87	95.24	-75.11	35.76	-1,913.97	986.64	868.37	118.27	8.342	
10,325.00	10,188.52	14,774.00	9,600.23	16.87	95.10	-72.76	44.41	-1,914.00	999.97	882.89	117.08	8.541	

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - MOMBA 24 FEDERAL COM 1H (P&A) - OWB - AWP													Offset Site Error: 0.00 usft
Survey Program: 100-r.5 SDI_KPR_ADK, 6533-r.5 MWD													Offset Well Error: 3.00 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre			Distance			Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Factor	
0.00	0.00	0.00	13.00	0.00	3.00	159.38	-433.80	163.20	463.67				
100.00	100.00	82.54	95.54	0.77	3.02	159.42	-434.28	163.04	463.90	459.08	4.82	96.179	
200.00	200.00	182.10	195.09	1.44	3.10	159.54	-435.66	162.50	465.00	459.77	5.23	88.845	
300.00	300.00	280.57	293.54	1.88	3.22	159.67	-437.10	161.94	466.18	460.53	5.65	82.462	
400.00	400.00	377.16	390.12	2.25	3.36	159.75	-438.88	161.92	467.90	461.82	6.08	76.967	
500.00	500.00	471.34	484.27	2.56	3.52	159.73	-441.20	162.92	470.58	464.06	6.52	72.202	
600.00	600.00	568.71	581.56	2.84	3.71	159.64	-444.34	164.93	474.32	467.35	6.97	68.031	
700.00	700.00	670.50	683.28	3.10	3.94	159.51	-447.58	167.25	478.10	470.65	7.45	64.133	
800.00	800.00	769.52	782.22	3.34	4.18	159.36	-450.35	169.66	481.58	473.64	7.93	60.697	
900.00	900.00	867.76	880.39	3.57	4.44	159.25	-453.61	171.86	485.47	477.05	8.42	57.639	
1,000.00	1,000.00	969.19	981.73	3.79	4.73	159.19	-457.21	173.75	489.45	480.52	8.93	54.802	
1,100.00	1,100.00	1,071.65	1,084.13	3.99	5.04	159.15	-460.39	175.37	492.92	483.47	9.45	52.186	
1,200.00	1,200.00	1,172.38	1,184.82	4.19	5.35	159.11	-463.18	176.81	496.01	486.06	9.95	49.833	
1,300.00	1,300.00	1,275.48	1,287.87	4.38	5.67	159.07	-465.79	178.13	498.84	488.37	10.47	47.657	
1,400.00	1,400.00	1,376.60	1,388.97	4.56	5.98	159.06	-467.86	179.07	501.08	490.11	10.97	45.680	
1,500.00	1,500.00	1,479.50	1,491.85	4.74	6.29	159.01	-469.62	180.17	503.06	491.59	11.46	43.889	
1,600.00	1,600.00	1,581.07	1,593.40	4.91	6.58	158.93	-470.70	181.38	504.48	492.55	11.93	42.276	
1,700.00	1,700.00	1,681.09	1,693.41	5.08	6.88	158.87	-471.73	182.27	505.76	493.36	12.40	40.786	
1,800.00	1,800.00	1,780.86	1,793.17	5.24	7.18	158.85	-472.89	182.94	507.09	494.22	12.87	39.392	
1,900.00	1,900.00	1,880.30	1,892.60	5.40	7.48	158.87	-474.24	183.29	508.48	495.13	13.35	38.091	
2,000.00	2,000.00	1,978.03	1,990.32	5.56	7.79	158.82	-475.57	184.31	510.13	496.31	13.82	36.907	
2,100.00	2,099.98	2,074.72	2,086.95	5.78	8.07	-111.58	-476.65	187.38	512.97	498.71	14.26	35.979	
2,200.00	2,199.84	2,170.90	2,183.03	6.00	8.36	-112.40	-477.91	191.67	517.83	503.14	14.69	35.257	
2,300.00	2,299.45	2,265.92	2,277.92	6.21	8.66	-113.50	-479.71	196.28	524.90	509.76	15.14	34.677	
2,400.00	2,398.70	2,360.20	2,371.99	6.42	8.97	-114.96	-481.69	202.26	534.51	518.91	15.60	34.254	
2,500.00	2,497.47	2,459.60	2,471.10	6.62	9.30	-116.82	-483.77	209.48	546.57	530.47	16.11	33.934	
2,600.00	2,595.62	2,562.07	2,573.35	6.83	9.64	-118.91	-485.28	216.06	560.04	543.42	16.63	33.679	
2,700.00	2,693.06	2,665.26	2,676.41	7.03	9.97	-121.08	-486.38	221.23	575.04	557.89	17.15	33.525 SF	
2,750.00	2,741.46	2,715.93	2,727.04	7.08	10.13	-122.17	-486.71	223.16	583.09	565.70	17.38	33.545	
2,800.00	2,789.76	2,763.89	2,774.96	7.12	10.28	-123.32	-486.99	224.87	591.52	573.92	17.60	33.610	
2,900.00	2,886.35	2,862.35	2,873.36	7.26	10.58	-125.59	-487.51	228.20	608.93	590.84	18.09	33.668	
3,000.00	2,982.94	2,960.31	2,971.28	7.41	10.87	-127.69	-487.75	230.97	626.66	608.10	18.56	33.757	
3,100.00	3,079.54	3,057.67	3,068.61	7.55	11.16	-129.66	-488.01	233.51	644.99	625.96	19.04	33.881	
3,200.00	3,176.13	3,156.07	3,166.99	7.71	11.45	-131.52	-487.90	235.69	663.72	644.22	19.51	34.026	
3,300.00	3,272.72	3,254.07	3,264.96	7.86	11.72	-133.27	-487.87	237.58	682.74	662.77	19.96	34.199	
3,400.00	3,369.31	3,350.37	3,361.26	8.02	11.99	-134.87	-487.82	239.13	702.16	681.75	20.42	34.388	
3,500.00	3,465.91	3,447.21	3,458.08	8.19	12.26	-136.39	-487.88	240.64	722.15	701.26	20.89	34.577	
3,600.00	3,562.50	3,546.09	3,556.96	8.35	12.55	-137.84	-487.96	241.78	742.33	720.97	21.36	34.754	
3,700.00	3,659.09	3,643.58	3,654.44	8.52	12.82	-139.17	-488.08	242.47	762.62	740.80	21.83	34.935	
3,800.00	3,755.68	3,739.37	3,750.23	8.70	13.10	-140.40	-488.32	243.10	783.34	761.03	22.30	35.122	
3,900.00	3,852.28	3,836.43	3,847.29	8.87	13.39	-141.57	-488.68	243.66	804.39	781.61	22.79	35.301	
4,000.00	3,948.87	3,934.21	3,945.07	9.05	13.68	-142.69	-488.95	244.10	825.61	802.34	23.27	35.485	
4,100.00	4,045.46	4,030.72	4,041.58	9.23	13.95	-143.73	-489.25	244.41	847.02	823.29	23.73	35.696	
4,200.00	4,142.05	4,126.52	4,137.38	9.42	14.21	-144.70	-489.85	244.59	868.78	844.61	24.17	35.946	
4,300.00	4,238.65	4,223.25	4,234.11	9.60	14.47	-145.61	-490.64	244.65	890.76	866.17	24.59	36.227	
4,400.00	4,335.24	4,319.18	4,330.03	9.79	14.72	-146.48	-491.47	244.76	913.01	888.01	25.00	36.522	
4,500.00	4,431.83	4,416.55	4,427.40	9.98	14.96	-147.30	-492.43	244.73	935.40	910.00	25.40	36.824	
4,600.00	4,528.42	4,512.13	4,522.97	10.18	15.21	-148.07	-493.38	244.74	958.00	932.21	25.79	37.140	
4,700.00	4,625.02	4,607.57	4,618.41	10.37	15.48	-148.82	-494.24	244.91	980.86	954.65	26.21	37.422	

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - MOMBA 24 FEDERAL COM 3H - OWB - AWP												Offset Site Error: 0.00 usft
Survey Program: 100-r.5 SDI_KPR_ADK, 7080-r.5 MWD												Offset Well Error: 3.00 usft
Reference												
Offset												
Semi Major Axis												
Reference												
Offset												
Highside												
Toolface												
Offset Wellbore Centre												
+N/-S												
(usft)												
+E/-W												
(usft)												
Between												
Centres												
(usft)												
Between												
Ellipses												
(usft)												
No-Go												
Distance												
(usft)												
Separation												
Factor												
Warning												
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	+N/-S	+E/-W	Between	Between	No-Go	Separation
Depth	Depth	Depth	Depth	(usft)	(usft)	Toolface	(usft)	(usft)	Centres	Ellipses	Distance	Factor
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
2,600.00	2,595.62	2,614.83	2,618.19	6.83	7.19	11.09	184.74	-1,030.74	985.87	971.75	14.12	69.833
2,700.00	2,693.06	2,706.29	2,709.64	7.03	7.31	11.42	184.20	-1,029.00	961.85	947.41	14.44	66.598
2,750.00	2,741.46	2,754.77	2,758.11	7.08	7.37	11.61	183.84	-1,028.21	948.72	934.16	14.56	65.146
2,800.00	2,789.76	2,803.13	2,806.47	7.12	7.44	11.76	183.40	-1,027.42	935.18	920.50	14.68	63.708
2,900.00	2,886.35	2,900.01	2,903.33	7.26	7.58	12.08	182.86	-1,025.73	908.05	893.08	14.97	60.640
3,000.00	2,982.94	2,993.28	2,996.59	7.41	7.75	12.44	182.81	-1,024.11	881.07	865.79	15.28	57.661
3,100.00	3,079.54	3,087.91	3,091.20	7.55	7.92	12.82	182.81	-1,022.70	854.37	838.77	15.60	54.759
3,200.00	3,176.13	3,183.89	3,187.17	7.71	8.11	13.24	182.80	-1,021.38	827.81	811.87	15.94	51.940
3,300.00	3,272.72	3,278.55	3,281.82	7.86	8.31	13.68	182.85	-1,020.16	801.38	785.10	16.28	49.219
3,400.00	3,369.31	3,372.47	3,375.74	8.02	8.51	14.13	182.78	-1,019.22	775.25	758.62	16.63	46.604
3,500.00	3,465.91	3,469.48	3,472.75	8.19	8.72	14.62	182.61	-1,018.45	749.34	732.34	17.00	44.076
3,600.00	3,562.50	3,564.27	3,567.53	8.35	8.92	15.12	182.31	-1,017.67	723.42	706.05	17.37	41.645
3,700.00	3,659.09	3,657.55	3,660.82	8.52	9.10	15.63	181.97	-1,017.30	697.95	680.21	17.74	39.349
3,800.00	3,755.68	3,752.95	3,756.21	8.70	9.27	16.19	181.69	-1,017.28	672.90	654.80	18.10	37.172
3,900.00	3,852.28	3,849.75	3,853.01	8.87	9.46	16.82	181.51	-1,017.23	647.91	629.44	18.47	35.071
4,000.00	3,948.87	3,945.35	3,948.61	9.05	9.65	17.50	181.49	-1,017.16	623.04	604.19	18.84	33.064
4,100.00	4,045.46	4,039.64	4,042.90	9.23	9.82	18.21	181.45	-1,017.38	598.53	579.34	19.20	31.180
4,200.00	4,142.05	4,134.63	4,137.89	9.42	9.97	18.98	181.43	-1,018.02	574.54	554.99	19.54	29.401
4,300.00	4,238.65	4,231.67	4,234.93	9.60	10.13	19.80	181.17	-1,018.83	550.72	530.82	19.90	27.679
4,400.00	4,335.24	4,328.97	4,332.22	9.79	10.29	20.68	180.79	-1,019.63	526.95	506.69	20.26	26.008
4,500.00	4,431.83	4,426.36	4,429.61	9.98	10.46	21.62	180.07	-1,020.41	503.19	482.55	20.63	24.386
4,600.00	4,528.42	4,522.77	4,526.01	10.18	10.65	22.63	179.33	-1,021.15	479.52	458.52	21.01	22.826
4,700.00	4,625.02	4,618.26	4,621.49	10.37	10.83	23.75	178.81	-1,022.06	456.26	434.88	21.39	21.334
4,800.00	4,721.61	4,715.49	4,718.72	10.57	11.03	24.99	178.17	-1,023.10	433.25	411.48	21.77	19.902
4,900.00	4,818.20	4,812.57	4,815.79	10.77	11.22	26.34	177.30	-1,024.20	410.40	388.25	22.15	18.525
5,000.00	4,914.80	4,910.32	4,913.53	10.97	11.42	27.83	176.21	-1,025.22	387.63	365.09	22.54	17.196
5,100.00	5,011.39	5,007.21	5,010.40	11.17	11.62	29.47	175.00	-1,026.19	365.03	342.10	22.93	15.920
5,200.00	5,107.98	5,104.03	5,107.21	11.37	11.82	31.31	173.71	-1,027.20	342.76	319.44	23.32	14.699
5,300.00	5,204.57	5,202.09	5,205.26	11.57	12.03	33.40	172.21	-1,028.13	320.69	296.98	23.71	13.528
5,400.00	5,301.17	5,299.31	5,302.46	11.78	12.26	35.76	170.48	-1,028.90	298.82	274.73	24.09	12.403
5,500.00	5,397.76	5,395.49	5,398.62	11.99	12.48	38.46	168.82	-1,029.67	277.55	253.07	24.48	11.338
5,600.00	5,494.35	5,493.26	5,496.37	12.20	12.72	41.60	166.99	-1,030.49	256.92	232.06	24.86	10.333
5,700.00	5,590.94	5,589.29	5,592.36	12.41	12.96	45.13	164.91	-1,031.45	237.08	211.83	25.25	9.389
5,800.00	5,687.54	5,686.06	5,689.11	12.62	13.20	49.25	162.85	-1,032.70	218.51	192.88	25.63	8.524
5,885.37	5,770.00	5,768.54	5,771.57	12.79	13.42	53.30	161.10	-1,033.83	203.74	177.79	25.95	7.850
5,900.00	5,784.13	5,782.67	5,785.69	12.81	13.45	54.03	160.81	-1,034.03	201.35	175.34	26.00	7.743
6,000.00	5,881.01	5,880.43	5,883.42	13.04	13.71	59.30	158.75	-1,035.33	186.40	159.99	26.41	7.059
6,100.00	5,978.31	5,978.40	5,981.35	13.25	13.97	64.95	156.41	-1,036.45	173.79	146.99	26.80	6.485
6,200.00	6,075.99	6,076.51	6,079.43	13.45	14.24	70.84	153.91	-1,037.51	163.60	136.40	27.20	6.015
6,300.00	6,174.03	6,174.32	6,177.20	13.65	14.51	76.85	151.45	-1,038.48	155.85	128.23	27.61	5.644
6,400.00	6,272.40	6,272.68	6,275.54	13.85	14.78	82.96	149.31	-1,039.07	150.58	122.54	28.04	5.370
6,500.00	6,371.07	6,371.51	6,374.34	14.04	15.05	88.98	147.16	-1,039.23	147.23	118.75	28.48	5.169
6,600.00	6,470.01	6,471.80	6,474.59	14.23	15.32	94.90	144.56	-1,038.73	145.12	116.19	28.93	5.016
6,700.00	6,569.18	6,570.39	6,573.13	14.41	15.59	100.34	141.29	-1,037.91	143.63	114.25	29.37	4.890
6,755.08	6,623.90	6,624.72	6,627.44	14.51	15.74	102.97	139.84	-1,037.69	143.50	113.89	29.61	4.846
6,800.00	6,668.57	6,669.45	6,672.15	14.59	15.87	104.94	138.69	-1,037.63	143.54	113.73	29.81	4.816
6,900.00	6,768.13	6,768.76	6,771.44	14.76	16.16	108.70	136.20	-1,037.80	143.80	113.56	30.23	4.756
7,000.00	6,867.84	6,868.16	6,870.81	14.93	16.45	111.77	133.96	-1,037.95	144.26	113.60	30.65	4.706
7,100.00	6,967.67	6,968.24	6,970.86	15.09	16.74	114.26	131.71	-1,037.97	144.47	113.40	31.07	4.650
7,200.00	7,067.58	7,068.90	7,071.48	15.24	17.03	116.13	129.08	-1,038.13	143.78	112.31	31.47	4.568
7,300.00	7,167.55	7,168.25	7,170.80	15.38	17.24	117.25	126.48	-1,038.59	142.29	110.51	31.78	4.478

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - MOMBA 24 FEDERAL COM 3H - OWB - AWP												Offset Site Error:	0.00 usft
Survey Program: 100-r.5 SDI_KPR_ADK, 7080-r.5 MWD												Offset Well Error:	3.00 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
7,385.37	7,252.92	7,253.11	7,255.64	15.44	17.39	27.58	124.80	-1,039.16	140.83	108.85	31.98	4.404	
7,400.00	7,267.55	7,267.76	7,270.29	15.45	17.40	27.58	124.55	-1,039.28	140.54	108.56	31.99	4.394	
7,500.00	7,367.55	7,367.76	7,370.27	15.51	17.44	27.43	122.95	-1,040.53	138.55	106.45	32.10	4.316	
7,600.00	7,467.55	7,467.70	7,470.19	15.56	17.49	27.21	121.50	-1,041.86	136.65	104.45	32.21	4.243	
7,700.00	7,567.55	7,569.08	7,571.54	15.61	17.54	27.05	119.67	-1,043.24	134.42	102.10	32.32	4.159	
7,800.00	7,667.55	7,675.66	7,678.00	15.65	17.59	27.20	115.15	-1,045.15	129.90	97.48	32.42	4.006	
7,900.00	7,767.55	7,790.98	7,791.23	15.70	17.68	32.93	94.56	-1,043.10	115.12	82.70	32.42	3.551	
8,000.00	7,867.55	7,895.88	7,891.22	15.75	17.77	45.24	63.01	-1,040.79	92.57	60.13	32.44	2.853 Normal Operations	
8,100.00	7,967.55	7,994.83	7,979.92	15.80	17.91	72.60	19.62	-1,041.73	66.77	34.25	32.52	2.053 Caution - Monitor Closely	
8,135.84	8,003.39	8,023.77	8,003.39	15.82	17.97	87.53	2.72	-1,041.27	63.13	30.73	32.41	1.948 Caution - Monitor Closely, CC, ES, SF	
8,200.00	8,067.55	8,067.56	8,035.84	15.85	18.05	112.32	-26.59	-1,039.56	76.88	45.65	31.22	2.462 Caution - Monitor Closely	
8,300.00	8,167.55	8,121.00	8,070.44	15.90	18.13	134.80	-67.17	-1,036.70	136.08	106.19	29.89	4.553	
8,400.00	8,267.55	8,164.85	8,095.39	15.95	18.19	145.59	-103.09	-1,033.73	212.72	183.13	29.59	7.189	
8,500.00	8,367.55	8,197.36	8,111.94	16.00	18.24	150.65	-130.90	-1,030.72	296.47	266.95	29.52	10.043	
8,600.00	8,467.55	8,216.00	8,120.42	16.05	18.27	152.87	-147.39	-1,028.81	384.62	355.11	29.50	13.036	
8,700.00	8,567.55	8,248.00	8,133.12	16.10	18.32	155.94	-176.56	-1,025.51	475.52	445.76	29.76	15.979	
8,800.00	8,667.55	8,257.61	8,136.49	16.15	18.33	156.73	-185.51	-1,024.56	568.16	538.28	29.88	19.014	
8,900.00	8,767.55	8,274.00	8,141.82	16.21	18.36	157.96	-200.93	-1,022.99	662.21	632.11	30.11	21.995	
9,000.00	8,867.55	8,286.15	8,145.47	16.26	18.38	158.79	-212.47	-1,021.87	757.20	726.85	30.34	24.953	
9,100.00	8,967.55	8,305.00	8,150.68	16.31	18.41	159.93	-230.50	-1,020.15	852.94	822.30	30.63	27.843	
9,200.00	9,067.55	8,305.00	8,150.68	16.36	18.41	159.93	-230.50	-1,020.15	949.14	918.28	30.87	30.748	

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - MOMBA FEDERAL COM 701H - OWB - AWP													Offset Site Error: 0.00 usft	
Survey Program:		100-Standard Keeper 104, 9101-r.5 MWD+IFR1+FDIR						Rule Assigned:		Offset Well Error: 3.00 usft				
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
0.00	0.00	0.00	11.00	0.00	3.00	-32.19	542.80	-341.70	641.49					
100.00	100.00	91.78	102.78	0.77	3.00	-32.25	542.29	-342.13	641.20	636.41	4.80	133.620		
200.00	200.00	192.04	203.01	1.44	3.00	-32.42	541.04	-343.61	640.94	635.82	5.12	125.170		
300.00	300.00	294.40	305.36	1.88	3.02	-32.58	539.50	-344.74	640.26	634.83	5.43	117.982		
400.00	400.00	397.77	408.71	2.25	3.03	-32.69	537.68	-344.99	638.90	633.18	5.72	111.656		
500.00	500.00	496.96	507.88	2.56	3.05	-32.81	535.95	-345.48	637.70	631.69	6.01	106.156		
600.00	600.00	591.33	602.23	2.84	3.07	-32.98	534.44	-346.79	637.10	630.82	6.28	101.454		
621.41	621.41	610.51	621.41	2.90	3.08	-33.01	534.21	-347.06	637.05	630.72	6.33	100.565		
700.00	700.00	687.21	698.10	3.10	3.10	-33.15	533.58	-348.56	637.34	630.80	6.54	97.449		
800.00	800.00	784.63	795.48	3.34	3.13	-33.38	532.61	-350.88	637.81	631.02	6.79	93.892		
900.00	900.00	881.84	892.63	3.57	3.17	-33.69	531.44	-354.24	638.73	631.69	7.04	90.740		
1,000.00	1,000.00	1,006.14	1,016.84	3.79	3.22	-34.07	528.66	-357.51	638.42	631.14	7.28	87.643		
1,100.00	1,100.00	1,103.49	1,114.14	3.99	3.26	-34.24	525.57	-357.71	635.90	628.38	7.53	84.478		
1,200.00	1,200.00	1,204.42	1,215.01	4.19	3.31	-34.45	522.15	-358.15	633.35	625.59	7.77	81.545		
1,285.52	1,285.52	1,275.00	1,285.56	4.35	3.33	-34.53	520.70	-358.26	632.04	624.08	7.97	79.346		
1,300.00	1,300.00	1,288.41	1,298.97	4.38	3.33	-34.53	520.73	-358.24	632.06	624.06	8.00	79.026		
1,400.00	1,400.00	1,389.34	1,399.91	4.56	3.33	-34.51	520.93	-358.20	632.20	623.98	8.22	76.911		
1,500.00	1,500.00	1,490.86	1,501.42	4.74	3.38	-34.55	520.59	-358.40	632.03	623.59	8.45	74.838		
1,600.00	1,600.00	1,596.46	1,606.99	4.91	3.38	-34.35	521.32	-356.32	631.49	622.82	8.67	72.853		
1,700.00	1,700.00	1,695.34	1,705.80	5.08	3.38	-34.03	522.61	-352.93	630.65	621.76	8.89	70.974		
1,800.00	1,800.00	1,794.83	1,805.24	5.24	3.38	-33.74	523.90	-349.88	630.01	620.91	9.10	69.232		
1,900.00	1,900.00	1,893.22	1,903.60	5.40	3.38	-33.51	524.74	-347.48	629.38	620.06	9.31	67.585		
2,000.00	2,000.00	2,003.35	2,013.69	5.56	3.40	-33.27	525.21	-344.54	628.28	618.76	9.53	65.956		
2,100.00	2,099.98	2,132.51	2,142.40	5.78	3.43	57.76	524.87	-334.43	622.87	613.12	9.75	63.860		
2,200.00	2,199.84	2,233.97	2,243.11	6.00	3.47	59.31	524.54	-322.14	613.47	603.50	9.96	61.567		
2,300.00	2,299.45	2,345.03	2,353.02	6.21	3.51	61.58	523.66	-306.25	601.26	591.10	10.16	59.154		
2,400.00	2,398.70	2,447.13	2,453.67	6.42	3.56	64.30	521.78	-289.19	586.14	575.78	10.36	56.574		
2,500.00	2,497.47	2,533.04	2,538.71	6.62	3.60	66.76	519.56	-277.31	571.22	560.66	10.56	54.092		
2,600.00	2,595.62	2,619.46	2,624.56	6.83	3.65	69.42	517.92	-267.53	557.74	546.99	10.75	51.869		
2,700.00	2,693.06	2,709.45	2,714.06	7.03	3.70	72.52	517.26	-258.24	545.87	534.93	10.94	49.905		
2,750.00	2,741.46	2,756.31	2,760.69	7.08	3.72	74.27	517.00	-253.49	540.33	529.34	10.99	49.170		
2,800.00	2,789.76	2,803.59	2,807.72	7.12	3.75	76.00	516.70	-248.71	535.15	524.11	11.04	48.471		
2,900.00	2,886.35	2,895.54	2,899.05	7.26	3.80	79.59	516.31	-238.07	526.37	515.14	11.23	46.887		
3,000.00	2,982.94	2,988.11	2,990.88	7.41	3.86	83.39	516.55	-226.39	520.57	509.15	11.42	45.585		
3,100.00	3,079.54	3,080.22	3,082.20	7.55	3.92	87.27	516.69	-214.41	517.36	505.74	11.62	44.513		
3,169.87	3,147.03	3,145.60	3,147.06	7.66	3.97	90.02	516.73	-206.15	516.73	504.96	11.77	43.899 CC, ES		
3,200.00	3,176.13	3,175.32	3,176.55	7.71	3.99	91.26	516.68	-202.44	516.81	504.97	11.84	43.665		
3,300.00	3,272.72	3,277.45	3,277.84	7.86	4.06	95.56	515.31	-189.45	517.80	505.74	12.06	42.922		
3,400.00	3,369.31	3,369.24	3,368.80	8.02	4.14	99.44	513.10	-177.40	520.67	508.37	12.30	42.334		
3,500.00	3,465.91	3,462.84	3,461.59	8.19	4.21	103.33	510.95	-165.25	526.39	513.85	12.54	41.964		
3,600.00	3,562.50	3,554.89	3,552.93	8.35	4.29	107.00	508.95	-153.99	534.70	521.90	12.79	41.790		
3,700.00	3,659.09	3,647.97	3,645.36	8.52	4.36	110.53	507.11	-143.20	545.40	532.35	13.05	41.784 SF		
3,800.00	3,755.68	3,740.53	3,737.27	8.70	4.44	113.91	505.32	-132.47	558.40	545.08	13.32	41.932		
3,900.00	3,852.28	3,829.20	3,825.34	8.87	4.52	116.99	504.04	-122.23	573.87	560.29	13.58	42.259		
4,000.00	3,948.87	3,918.11	3,913.64	9.05	4.60	119.92	503.45	-111.76	591.96	578.11	13.85	42.751		
4,100.00	4,045.46	4,013.67	4,008.51	9.23	4.68	122.90	502.79	-100.38	611.82	597.69	14.13	43.298		
4,200.00	4,142.05	4,109.47	4,103.63	9.42	4.77	125.72	501.78	-89.09	632.91	618.49	14.42	43.892		
4,300.00	4,238.65	4,204.65	4,198.21	9.60	4.86	128.32	500.52	-78.44	654.87	640.15	14.71	44.514		
4,400.00	4,335.24	4,305.84	4,298.86	9.79	4.95	130.84	499.44	-68.04	677.69	662.68	15.02	45.125		
4,500.00	4,431.83	4,400.26	4,392.85	9.98	5.04	133.00	498.23	-59.18	700.85	685.54	15.31	45.767		
4,600.00	4,528.42	4,495.72	4,487.91	10.18	5.14	135.02	497.11	-50.52	724.80	709.19	15.61	46.421		

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - MOMBA FEDERAL COM 701H - OWB - AWP													Offset Site Error:	0.00 usft
Survey Program: 100-Standard Keeper 104, 9101-r.5 MWD+IFR1+FDIR													Offset Well Error:	3.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:			
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	
4,700.00	4,625.02	4,587.47	4,579.29	10.37	5.23	136.85	496.00	-42.30	749.48	733.57	15.91	47.113		
4,800.00	4,721.61	4,684.89	4,676.31	10.57	5.32	138.67	494.83	-33.53	774.94	758.72	16.22	47.781		
4,900.00	4,818.20	4,775.02	4,766.08	10.77	5.41	140.24	493.84	-25.66	800.94	784.42	16.51	48.500		
5,000.00	4,914.80	4,862.32	4,853.01	10.97	5.50	141.68	492.93	-17.72	827.87	811.06	16.81	49.262		
5,100.00	5,011.39	4,952.71	4,942.86	11.17	5.60	143.18	491.39	-7.90	856.32	839.21	17.11	50.052		
5,200.00	5,107.98	5,051.34	5,040.92	11.37	5.70	144.72	489.53	2.50	884.99	867.56	17.43	50.762		
5,300.00	5,204.57	5,148.00	5,137.05	11.57	5.80	146.13	487.52	12.37	913.83	896.07	17.76	51.465		
5,400.00	5,301.17	5,250.40	5,238.96	11.78	5.91	147.51	485.25	22.11	942.51	924.41	18.09	52.089		
5,500.00	5,397.76	5,325.00	5,313.24	11.99	5.99	148.44	483.91	28.94	971.64	953.28	18.36	52.914		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - MOMBA FEDERAL COM 702H - OWB - AWP												Offset Site Error:	0.00 usft
Survey Program: 100-Standard Keeper 104, 8694-r.5 MWD+IFR1+FDIR												Offset Well Error:	3.00 usft
Reference												Rule Assigned:	
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		No-Go Distance (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	10.00	0.00	3.00	-34.41	542.60	-371.60	657.72				
100.00	100.00	91.18	101.18	0.77	3.00	-34.45	542.27	-371.93	657.57	652.77	4.80	137.030	
200.00	200.00	191.74	201.74	1.44	3.00	-34.55	541.45	-372.77	657.36	652.24	5.12	128.378	
300.00	300.00	293.24	303.22	1.88	3.02	-34.68	540.30	-373.80	657.01	651.58	5.43	121.078	
400.00	400.00	394.52	404.49	2.25	3.03	-34.80	538.94	-374.53	656.32	650.60	5.72	114.749	
500.00	500.00	494.25	504.20	2.56	3.05	-34.93	537.55	-375.35	655.65	649.64	6.00	109.237	
600.00	600.00	592.07	602.01	2.84	3.08	-35.05	536.26	-376.23	655.08	648.81	6.27	104.401	
645.90	645.90	635.97	645.90	2.96	3.09	-35.12	535.74	-376.83	654.99	648.60	6.39	102.445	
700.00	700.00	687.71	697.63	3.10	3.11	-35.22	535.22	-377.79	655.13	648.59	6.54	100.230	
800.00	800.00	786.18	796.08	3.34	3.14	-35.41	534.33	-379.80	655.57	648.78	6.79	96.555	
900.00	900.00	893.41	903.30	3.57	3.15	-35.40	534.50	-379.83	655.73	648.69	7.04	93.178	
1,000.00	1,000.00	991.66	1,001.52	3.79	3.14	-35.20	535.47	-377.78	655.32	648.04	7.28	90.009	
1,100.00	1,100.00	1,091.87	1,101.71	3.99	3.14	-35.04	536.32	-376.13	655.07	647.55	7.52	87.124	
1,200.00	1,200.00	1,191.22	1,201.06	4.19	3.14	-34.97	536.73	-375.35	654.96	647.21	7.75	84.490	
1,294.59	1,294.59	1,284.75	1,294.59	4.37	3.14	-34.92	536.83	-374.83	654.74	646.77	7.97	82.154	
1,300.00	1,300.00	1,289.79	1,299.64	4.38	3.14	-34.92	536.84	-374.82	654.74	646.76	7.98	82.028	
1,400.00	1,400.00	1,384.69	1,394.52	4.56	3.16	-34.94	537.13	-375.30	655.28	647.08	8.20	79.891	
1,500.00	1,500.00	1,485.16	1,494.99	4.74	3.19	-35.05	537.13	-376.75	656.11	647.68	8.42	77.903	
1,600.00	1,600.00	1,584.86	1,594.67	4.91	3.21	-34.96	538.27	-376.41	656.84	648.20	8.64	76.027	
1,700.00	1,700.00	1,683.42	1,693.20	5.08	3.22	-34.78	540.24	-375.18	657.78	648.92	8.85	74.288	
1,800.00	1,800.00	1,783.18	1,792.96	5.24	3.24	-34.68	541.73	-374.80	658.79	649.72	9.07	72.651	
1,900.00	1,900.00	1,879.02	1,888.78	5.40	3.27	-34.65	542.95	-375.29	660.12	650.84	9.28	71.136	
2,000.00	2,000.00	1,977.93	1,987.67	5.56	3.31	-34.66	544.40	-376.33	661.93	652.43	9.49	69.730	
2,100.00	2,099.98	2,106.28	2,115.86	5.78	3.34	55.97	547.12	-371.94	660.79	651.06	9.72	67.955	
2,200.00	2,199.84	2,204.79	2,214.01	6.00	3.37	57.14	549.84	-363.95	655.71	645.78	9.93	66.053	
2,300.00	2,299.45	2,323.66	2,332.26	6.21	3.41	59.06	552.52	-352.22	647.77	637.65	10.12	63.995	
2,400.00	2,398.70	2,432.19	2,439.74	6.42	3.44	61.50	553.71	-337.21	635.58	625.28	10.31	61.652	
2,500.00	2,497.47	2,518.93	2,525.77	6.62	3.48	63.72	554.03	-326.28	622.65	612.15	10.50	59.308	
2,600.00	2,595.62	2,604.88	2,611.39	6.83	3.51	65.96	554.37	-318.73	610.88	600.20	10.68	57.175	
2,700.00	2,693.06	2,695.83	2,702.09	7.03	3.56	68.57	555.34	-312.05	600.00	589.13	10.87	55.210	
2,750.00	2,741.46	2,742.46	2,748.60	7.08	3.58	70.01	555.92	-308.88	594.76	583.84	10.92	54.483	
2,800.00	2,789.76	2,788.35	2,794.38	7.12	3.60	71.40	556.58	-305.76	589.83	578.87	10.97	53.784	
2,900.00	2,886.35	2,881.08	2,886.90	7.26	3.65	74.23	558.15	-299.73	581.54	570.39	11.15	52.150	
3,000.00	2,982.94	2,975.34	2,980.98	7.41	3.71	77.14	559.86	-294.08	575.16	563.81	11.35	50.690	
3,100.00	3,079.54	3,073.28	3,078.74	7.55	3.77	80.19	561.47	-288.47	570.35	558.80	11.55	49.372	
3,200.00	3,176.13	3,166.86	3,172.19	7.71	3.83	83.07	562.82	-283.83	567.14	555.37	11.77	48.201	
3,300.00	3,272.72	3,263.15	3,268.39	7.86	3.89	86.00	563.91	-279.64	565.32	553.33	11.99	47.152	
3,358.11	3,328.85	3,317.67	3,322.86	7.96	3.93	87.65	564.52	-277.34	564.99	552.87	12.12	46.604 CC, ES	
3,400.00	3,369.31	3,357.30	3,362.45	8.02	3.96	88.86	565.03	-275.70	565.16	552.93	12.22	46.244	
3,500.00	3,465.91	3,455.38	3,460.45	8.19	4.03	91.80	566.08	-271.82	566.46	553.99	12.46	45.451	
3,600.00	3,562.50	3,551.32	3,556.33	8.35	4.10	94.61	566.89	-268.64	569.03	556.32	12.71	44.762	
3,700.00	3,659.09	3,648.51	3,653.48	8.52	4.18	97.36	567.60	-266.06	572.88	559.91	12.97	44.169	
3,800.00	3,755.68	3,742.57	3,747.51	8.70	4.26	99.97	568.32	-263.74	578.12	564.88	13.23	43.684	
3,900.00	3,852.28	3,839.63	3,844.55	8.87	4.34	102.60	569.13	-261.43	584.70	571.19	13.51	43.288	
4,000.00	3,948.87	3,934.32	3,939.20	9.05	4.42	105.11	570.14	-259.16	592.79	579.00	13.79	42.999	
4,100.00	4,045.46	4,031.67	4,036.52	9.23	4.50	107.59	571.20	-257.13	602.01	587.93	14.07	42.773	
4,200.00	4,142.05	4,128.63	4,133.46	9.42	4.59	109.96	572.15	-255.42	612.15	597.78	14.37	42.605	
4,300.00	4,238.65	4,228.49	4,233.32	9.60	4.68	112.29	572.92	-254.26	622.94	608.27	14.67	42.460	
4,400.00	4,335.24	4,326.90	4,331.72	9.79	4.77	114.46	573.35	-253.74	634.15	619.17	14.98	42.341	
4,500.00	4,431.83	4,426.35	4,431.17	9.98	4.84	116.56	573.46	-253.60	645.78	630.50	15.27	42.284	
4,600.00	4,528.42	4,522.65	4,527.47	10.18	4.93	118.52	573.64	-253.43	658.33	642.75	15.58	42.245 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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - MOMBA FEDERAL COM 702H - OWB - AWP													Offset Site Error: 0.00 usft
Survey Program: 100-Standard Keeper 104, 8694-r.5 MWD+IFR1+FDIR							Rule Assigned:						Offset Well Error: 3.00 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 +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
4,700.00	4,625.02	4,621.13	4,625.95	10.37	4.97	120.42	574.00	-253.61	671.62	655.73	15.89	42.279	
4,800.00	4,721.61	4,719.21	4,724.03	10.57	4.97	122.23	573.95	-254.21	685.05	668.89	16.16	42.391	
4,900.00	4,818.20	4,815.55	4,820.36	10.77	4.97	123.94	574.00	-254.74	699.25	682.81	16.44	42.541	
5,000.00	4,914.80	4,914.00	4,918.81	10.97	4.98	125.61	573.80	-255.56	713.70	696.99	16.71	42.709	
5,100.00	5,011.39	5,013.46	5,018.26	11.17	4.98	127.24	573.58	-256.36	728.75	711.76	16.99	42.901	
5,200.00	5,107.98	5,112.07	5,116.87	11.37	4.99	128.78	572.95	-257.49	743.80	726.54	17.26	43.093	
5,300.00	5,204.57	5,210.07	5,214.85	11.57	5.00	130.26	572.25	-258.63	759.31	741.78	17.54	43.301	
5,400.00	5,301.17	5,280.14	5,284.93	11.78	5.02	131.31	572.14	-258.58	776.61	758.84	17.78	43.682	
5,500.00	5,397.76	5,369.66	5,374.41	11.99	5.10	132.67	573.22	-256.13	797.00	778.92	18.08	44.085	
5,600.00	5,494.35	5,464.35	5,469.04	12.20	5.19	134.03	574.59	-253.38	818.14	799.75	18.39	44.487	
5,700.00	5,590.94	5,546.62	5,551.24	12.41	5.26	135.17	576.21	-250.31	840.65	821.98	18.68	45.008	
5,800.00	5,687.54	5,639.20	5,643.70	12.62	5.35	136.40	578.51	-246.28	864.37	845.38	18.99	45.520	
5,885.37	5,770.00	5,726.66	5,731.06	12.79	5.43	137.51	580.61	-242.56	884.82	865.56	19.26	45.935	
5,900.00	5,784.13	5,741.09	5,745.47	12.81	5.44	137.71	580.89	-241.97	888.28	868.98	19.30	46.021	
6,000.00	5,881.01	5,838.31	5,842.59	13.04	5.54	138.99	582.71	-237.95	911.39	891.75	19.64	46.395	
6,100.00	5,978.31	5,944.12	5,948.32	13.25	5.64	140.22	584.18	-234.15	932.81	912.83	19.97	46.699	
6,200.00	6,075.99	6,046.37	6,050.52	13.45	5.74	141.29	585.06	-230.93	952.52	932.23	20.29	46.943	
6,300.00	6,174.03	6,151.14	6,155.25	13.65	5.84	142.25	585.56	-228.18	970.46	949.86	20.61	47.096	
6,400.00	6,272.40	6,249.11	6,253.19	13.85	5.94	143.04	586.06	-225.91	986.97	966.07	20.90	47.223	

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - MOMBA FEDERAL COM 703H - OWB - AWP													Offset Site Error: 0.00 usft
Survey Program: 100-Standard Keeper 104, 9164-r.5 MWD+IFR1+FDIR													Offset Well Error: 3.00 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)			
0.00	0.00	0.00	11.00	0.00	3.00	-36.52	542.40	-401.60	674.98				
100.00	100.00	93.26	104.25	0.77	3.00	-36.56	541.86	-401.83	674.61	669.81	4.80	140.580	
200.00	200.00	194.11	205.09	1.44	3.00	-36.68	540.33	-402.40	673.72	668.60	5.12	131.544	
300.00	300.00	293.51	304.48	1.88	3.02	-36.78	539.01	-402.97	673.01	667.58	5.43	123.960	
400.00	400.00	394.69	405.65	2.25	3.03	-36.90	537.61	-403.66	672.30	666.58	5.72	117.454	
500.00	500.00	498.11	509.05	2.56	3.05	-37.02	535.73	-404.03	671.07	665.06	6.01	111.658	
600.00	600.00	597.92	608.85	2.84	3.08	-37.14	533.83	-404.30	669.71	663.43	6.29	106.506	
700.00	700.00	690.34	701.25	3.10	3.11	-37.26	532.33	-404.97	668.87	662.31	6.55	102.047	
707.68	707.68	696.77	707.68	3.12	3.11	-37.27	532.25	-405.07	668.86	662.29	6.57	101.748	
800.00	800.00	781.88	792.77	3.34	3.14	-37.43	531.45	-406.77	669.30	662.49	6.81	98.350	
900.00	900.00	876.04	886.88	3.57	3.16	-37.64	531.32	-409.74	671.09	664.05	7.05	95.248	
1,000.00	1,000.00	977.54	988.32	3.79	3.19	-37.91	530.83	-413.32	672.87	665.58	7.28	92.380	
1,100.00	1,100.00	1,077.50	1,088.19	3.99	3.23	-38.22	529.97	-417.34	674.67	667.15	7.52	89.743	
1,200.00	1,200.00	1,176.21	1,186.80	4.19	3.28	-38.57	528.82	-421.68	676.49	668.75	7.75	87.311	
1,300.00	1,300.00	1,275.74	1,286.21	4.38	3.32	-38.94	527.60	-426.36	678.48	670.51	7.98	85.075	
1,400.00	1,400.00	1,383.63	1,393.99	4.56	3.38	-39.31	526.29	-430.84	680.18	671.98	8.20	82.935	
1,500.00	1,500.00	1,480.82	1,491.15	4.74	3.44	-39.53	525.31	-433.50	681.14	672.72	8.42	80.878	
1,600.00	1,600.00	1,578.71	1,588.99	4.91	3.50	-39.75	524.77	-436.50	682.67	674.03	8.64	79.015	
1,700.00	1,700.00	1,682.62	1,692.87	5.08	3.54	-39.86	525.10	-438.39	684.08	675.22	8.86	77.226	
1,800.00	1,800.00	1,781.08	1,791.32	5.24	3.56	-39.84	526.12	-438.90	685.21	676.13	9.07	75.508	
1,900.00	1,900.00	1,875.30	1,885.53	5.40	3.60	-39.87	527.04	-440.24	686.87	677.58	9.29	73.944	
2,000.00	2,000.00	1,976.14	1,986.34	5.56	3.66	-39.97	527.95	-442.49	689.00	679.50	9.51	72.487	
2,100.00	2,099.98	2,090.15	2,100.35	5.78	3.70	50.14	528.58	-443.43	688.83	679.08	9.75	70.636	
2,200.00	2,199.84	2,192.93	2,203.12	6.00	3.68	50.65	529.23	-442.24	685.24	675.27	9.97	68.762	
2,300.00	2,299.45	2,308.87	2,319.00	6.21	3.66	51.66	529.62	-438.87	678.20	668.03	10.17	66.674	
2,400.00	2,398.70	2,423.80	2,433.71	6.42	3.66	53.24	528.91	-431.84	666.45	656.08	10.37	64.275	
2,500.00	2,497.47	2,508.37	2,518.07	6.62	3.66	54.77	528.20	-425.96	652.44	641.87	10.57	61.734	
2,600.00	2,595.62	2,586.99	2,596.66	6.83	3.66	56.21	528.34	-424.33	640.31	629.54	10.77	59.472	
2,700.00	2,693.06	2,684.07	2,693.74	7.03	3.66	58.19	528.85	-423.40	627.79	616.83	10.96	57.259	
2,750.00	2,741.46	2,732.09	2,741.75	7.08	3.66	59.30	529.08	-422.94	621.10	610.09	11.01	56.389	
2,800.00	2,789.76	2,780.84	2,790.50	7.12	3.66	60.36	529.31	-422.52	614.40	603.34	11.06	55.528	
2,900.00	2,886.35	2,875.52	2,885.18	7.26	3.68	62.48	529.61	-421.81	601.60	590.36	11.25	53.498	
3,000.00	2,982.94	2,972.46	2,982.12	7.41	3.69	64.73	530.12	-421.17	589.94	578.51	11.43	51.596	
3,100.00	3,079.54	3,068.66	3,078.31	7.55	3.71	67.04	530.61	-420.57	579.26	567.63	11.63	49.811	
3,200.00	3,176.13	3,165.07	3,174.72	7.71	3.73	69.43	531.17	-420.04	569.70	557.87	11.83	48.151	
3,300.00	3,272.72	3,261.24	3,270.88	7.86	3.76	71.88	531.65	-419.58	561.17	549.13	12.04	46.605	
3,400.00	3,369.31	3,357.55	3,367.19	8.02	3.80	74.39	532.08	-419.22	553.75	541.49	12.26	45.178	
3,500.00	3,465.91	3,454.24	3,463.88	8.19	3.83	76.97	532.59	-418.79	547.54	535.06	12.48	43.873	
3,600.00	3,562.50	3,551.24	3,560.88	8.35	3.87	79.60	532.93	-418.45	542.39	529.68	12.71	42.676	
3,700.00	3,659.09	3,647.25	3,656.89	8.52	3.92	82.22	533.23	-418.36	538.46	525.52	12.95	41.590	
3,800.00	3,755.68	3,743.62	3,753.26	8.70	3.97	84.86	533.54	-418.45	535.80	522.61	13.19	40.617	
3,900.00	3,852.28	3,839.44	3,849.07	8.87	4.03	87.48	533.99	-418.74	534.51	521.07	13.44	39.765	
3,942.30	3,893.14	3,880.08	3,889.72	8.95	4.05	88.58	534.23	-418.97	534.39	520.84	13.55	39.440	
4,000.00	3,948.87	3,934.83	3,944.47	9.05	4.09	90.07	534.63	-419.32	534.66	520.96	13.70	39.035	
4,100.00	4,045.46	4,031.15	4,040.78	9.23	4.15	92.66	535.46	-420.04	536.16	522.21	13.96	38.416	
4,200.00	4,142.05	4,129.86	4,139.48	9.42	4.22	95.28	536.12	-420.96	538.64	524.42	14.22	37.879	
4,300.00	4,238.65	4,227.23	4,236.84	9.60	4.28	97.80	536.71	-422.18	542.16	527.67	14.48	37.429	
4,400.00	4,335.24	4,325.60	4,335.21	9.79	4.35	100.31	537.10	-423.54	546.53	531.78	14.75	37.048	
4,500.00	4,431.83	4,420.98	4,430.58	9.98	4.42	102.72	537.35	-424.66	551.91	536.89	15.02	36.745	
4,600.00	4,528.42	4,521.76	4,531.35	10.18	4.49	105.24	537.40	-425.68	558.15	542.86	15.29	36.495	
4,700.00	4,625.02	4,619.08	4,628.66	10.37	4.55	107.58	537.18	-427.14	565.04	549.47	15.57	36.296	

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - MOMBA FEDERAL COM 703H - OWB - AWP												Offset Site Error: 0.00 usft
Survey Program: 100-Standard Keeper 104, 9164-r.5 MWD+IFR1+FDIR												Offset Well Error: 3.00 usft
Reference												
Offset												
Semi Major Axis												
Highside												
Toolface												
Offset Wellbore Centre												
Distance												
Between												
Centres												
Ellipses												
No-Go												
Distance												
Separation												
Factor												
Warning												
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor
4,800.00	4,721.61	4,711.70	4,721.21	10.57	4.62	109.53	538.19	-430.46	573.36	557.52	15.84	36.192
4,900.00	4,818.20	4,809.75	4,819.14	10.77	4.70	111.43	539.84	-434.94	582.62	566.50	16.12	36.133
5,000.00	4,914.80	4,907.76	4,917.04	10.97	4.78	113.29	541.37	-439.27	592.47	576.06	16.41	36.106
5,100.00	5,011.39	5,009.73	5,018.90	11.17	4.87	115.17	542.65	-443.88	602.62	585.92	16.70	36.083
5,200.00	5,107.98	5,109.24	5,118.30	11.37	4.95	116.95	543.23	-448.52	612.71	595.72	16.99	36.058
5,300.00	5,204.57	5,208.30	5,217.25	11.57	5.04	118.68	543.60	-453.10	623.21	605.92	17.29	36.051
5,400.00	5,301.17	5,307.59	5,316.45	11.78	5.12	120.41	543.46	-457.36	633.99	616.41	17.58	36.054
5,500.00	5,397.76	5,404.71	5,413.49	11.99	5.21	122.08	543.12	-461.18	645.34	627.46	17.88	36.086
5,600.00	5,494.35	5,503.00	5,511.71	12.20	5.29	123.72	542.66	-464.95	657.19	639.00	18.19	36.134
5,700.00	5,590.94	5,600.00	5,608.64	12.41	5.38	125.30	542.08	-468.52	669.56	651.07	18.49	36.206
5,800.00	5,687.54	5,698.54	5,707.12	12.62	5.46	126.88	541.18	-471.97	682.28	663.48	18.81	36.282
5,885.37	5,770.00	5,782.36	5,790.88	12.79	5.54	128.18	540.28	-474.91	693.45	674.39	19.06	36.379
5,900.00	5,784.13	5,798.16	5,806.67	12.81	5.55	128.43	540.09	-475.46	695.37	676.27	19.10	36.404
6,000.00	5,881.01	5,894.93	5,903.38	13.04	5.63	129.94	538.65	-478.58	708.10	688.66	19.44	36.430
6,100.00	5,978.31	5,993.67	6,002.06	13.25	5.72	131.33	537.07	-481.65	720.11	700.36	19.74	36.471
6,200.00	6,075.99	6,091.90	6,100.23	13.45	5.80	132.57	535.39	-484.69	731.23	711.19	20.05	36.479
6,300.00	6,174.03	6,190.74	6,199.01	13.65	5.88	133.69	533.54	-487.69	741.38	721.04	20.34	36.448
6,400.00	6,272.40	6,288.65	6,296.86	13.85	5.97	134.68	531.74	-490.36	750.78	730.15	20.63	36.396
6,500.00	6,371.07	6,387.57	6,395.72	14.04	6.06	135.51	530.30	-493.54	759.05	738.14	20.91	36.304
6,600.00	6,470.01	6,485.11	6,493.17	14.23	6.16	136.08	530.30	-497.83	766.36	745.19	21.17	36.198
6,700.00	6,569.18	6,585.96	6,593.93	14.41	6.26	136.58	530.23	-502.08	772.55	751.12	21.43	36.045
6,800.00	6,668.57	6,687.88	6,695.75	14.59	6.37	136.99	529.72	-506.34	777.24	755.55	21.69	35.835
6,900.00	6,768.13	6,768.78	6,776.54	14.76	6.45	137.16	530.82	-510.08	781.66	759.77	21.89	35.714
7,000.00	6,867.84	6,871.00	6,878.52	14.93	6.55	137.06	535.11	-515.69	786.06	763.95	22.10	35.567
7,100.00	6,967.67	6,978.66	6,985.98	15.09	6.66	136.94	538.25	-521.44	788.41	766.10	22.32	35.327
7,200.00	7,067.58	7,089.98	7,097.11	15.24	6.78	136.76	540.15	-527.69	788.49	765.96	22.53	34.995
7,300.00	7,167.55	7,193.92	7,200.80	15.38	6.90	136.45	541.35	-534.71	786.08	763.36	22.72	34.604
7,385.37	7,252.92	7,284.76	7,291.41	15.44	7.00	46.10	542.05	-541.07	782.67	759.84	22.83	34.281
7,400.00	7,267.55	7,299.70	7,306.32	15.45	7.01	46.05	542.06	-542.10	781.95	759.11	22.84	34.238
7,500.00	7,367.55	7,397.23	7,403.63	15.51	7.12	45.71	542.05	-548.62	777.14	754.18	22.96	33.846
7,600.00	7,467.55	7,493.37	7,499.59	15.56	7.22	45.42	541.90	-554.49	772.67	749.61	23.06	33.508
7,700.00	7,567.55	7,575.00	7,581.10	15.61	7.31	45.18	542.06	-558.89	769.11	745.98	23.13	33.247
7,755.04	7,622.59	7,616.56	7,622.59	15.63	7.36	45.00	543.45	-560.94	768.52	745.36	23.16	33.177
7,800.00	7,667.55	7,658.04	7,663.97	15.65	7.40	44.79	545.49	-562.81	768.65	745.46	23.20	33.134
7,900.00	7,767.55	7,751.52	7,757.28	15.70	7.49	44.37	549.97	-566.32	769.44	746.16	23.28	33.056
8,000.00	7,867.55	7,850.35	7,855.93	15.75	7.58	43.94	555.07	-569.49	770.91	747.55	23.36	32.999
8,100.00	7,967.55	7,952.10	7,957.53	15.80	7.67	43.55	559.74	-572.16	772.42	748.97	23.45	32.937
8,200.00	8,067.55	8,053.95	8,059.27	15.85	7.77	43.21	563.83	-574.74	773.60	750.05	23.54	32.858
8,300.00	8,167.55	8,159.57	8,164.79	15.90	7.88	42.87	567.48	-577.57	774.29	750.65	23.64	32.749
8,400.00	8,267.55	8,264.48	8,269.64	15.95	7.99	42.60	570.04	-580.25	774.35	750.61	23.75	32.608
8,500.00	8,367.55	8,362.86	8,367.97	16.00	8.10	42.38	571.87	-582.53	774.16	750.31	23.85	32.464
8,520.26	8,387.81	8,382.71	8,387.81	16.01	8.12	42.34	572.26	-582.97	774.15	750.28	23.87	32.436
8,600.00	8,467.55	8,461.50	8,466.57	16.05	8.21	42.16	573.87	-584.67	774.20	750.25	23.95	32.331
8,700.00	8,567.55	8,567.15	8,572.18	16.10	8.32	41.95	575.65	-586.86	774.07	750.01	24.06	32.179
8,800.00	8,667.55	8,674.66	8,679.66	16.15	8.44	41.84	575.73	-588.87	772.87	748.68	24.18	31.961
8,900.00	8,767.55	8,776.50	8,781.49	16.21	8.55	41.78	575.07	-590.51	771.31	747.00	24.31	31.730
9,000.00	8,867.55	8,878.38	8,883.35	16.26	8.65	41.72	574.14	-592.48	769.34	744.90	24.44	31.482
9,100.00	8,967.55	8,983.22	8,988.15	16.31	8.76	41.64	572.97	-595.01	766.91	742.34	24.57	31.212
9,200.00	9,067.55	9,074.35	9,084.84	16.36	9.42	48.93	322.41	-734.35	727.69	697.46	30.23	24.074
9,300.00	9,167.55	9,149.80	9,134.02	16.41	9.53	50.86	290.24	-747.72	654.99	624.83	30.16	21.720
9,400.00	9,267.55	9,198.30	9,166.19	16.47	9.66	53.31	256.24	-760.43	585.53	555.48	30.05	19.488

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - MOMBA FEDERAL COM 703H - OWB - AWP												Offset Site Error: 0.00 usft
Survey Program: 100-Standard Keeper 104, 9164-r.5 MWD+IFR1+FDIR												Offset Well Error: 3.00 usft
Reference												
Offset												
Semi Major Axis												
Reference												
Offset												
Highside												
Tooface												
Offset Wellbore Centre												
Distance												
Between												
Centres												
Between												
Ellipses												
No-Go												
Distance												
Separation												
Factor												
Warning												
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor
9,500.00	9,367.55	9,909.71	9,736.34	16.52	10.00	61.28	173.97	-786.79	516.83	485.79	31.04	16.650
9,600.00	9,467.55	10,124.86	9,816.97	16.57	10.89	93.22	-14.58	-844.95	435.42	401.83	33.59	12.961
9,700.00	9,567.55	10,143.29	9,819.51	16.63	10.98	97.21	-32.23	-849.57	359.76	327.12	32.65	11.020
9,800.00	9,667.55	10,155.87	9,820.94	16.68	11.04	99.99	-44.37	-852.57	298.13	267.23	30.91	9.646
9,900.00	9,767.55	10,164.99	9,821.82	16.73	11.09	102.03	-53.20	-854.67	260.98	232.05	28.93	9.022
9,954.62	9,822.17	10,168.99	9,822.16	16.76	11.11	102.92	-57.08	-855.57	255.24	226.72	28.52	8.949 CC, ES, SF
10,000.00	9,867.55	10,171.91	9,822.40	16.79	11.12	103.58	-59.92	-856.21	259.22	230.37	28.86	8.983
10,100.00	9,967.55	10,177.33	9,822.80	16.84	11.15	104.79	-65.20	-857.40	293.57	262.47	31.10	9.439
10,148.00	10,015.55	10,179.54	9,822.95	16.85	11.16	105.28	-67.35	-857.87	319.96	288.01	31.95	10.013
10,150.00	10,017.55	10,179.62	9,822.96	16.85	11.16	107.13	-67.43	-857.89	321.17	289.17	32.00	10.035
10,175.00	10,042.54	10,180.22	9,823.00	16.86	11.16	104.88	-68.01	-858.02	337.07	304.47	32.60	10.339
10,200.00	10,067.45	10,179.99	9,822.98	16.87	11.16	102.07	-67.79	-857.97	354.26	321.11	33.15	10.688
10,225.00	10,092.22	10,179.01	9,822.92	16.87	11.16	98.69	-66.83	-857.76	372.51	338.87	33.64	11.074
10,250.00	10,116.78	10,177.32	9,822.80	16.87	11.15	94.76	-65.19	-857.39	391.63	357.55	34.08	11.492
10,275.00	10,141.06	10,174.99	9,822.63	16.87	11.14	90.35	-62.91	-856.89	411.42	376.95	34.47	11.936
10,300.00	10,165.00	10,172.05	9,822.41	16.87	11.12	85.53	-60.06	-856.25	431.73	396.92	34.81	12.402
10,325.00	10,188.52	10,168.57	9,822.13	16.87	11.11	80.43	-56.67	-855.47	452.42	417.31	35.11	12.886
10,350.00	10,211.58	10,164.58	9,821.78	16.87	11.09	75.17	-52.80	-854.57	473.35	437.98	35.37	13.383
10,375.00	10,234.10	10,160.12	9,821.36	16.87	11.06	69.92	-48.48	-853.56	494.42	458.83	35.59	13.890
10,400.00	10,256.01	10,155.23	9,820.87	16.87	11.04	64.82	-43.75	-852.42	515.53	479.74	35.79	14.405
10,425.00	10,277.27	10,149.94	9,820.29	16.87	11.01	59.97	-38.64	-851.17	536.59	500.64	35.95	14.925
10,450.00	10,297.81	10,144.30	9,819.63	16.87	10.99	55.46	-33.20	-849.82	557.53	521.45	36.09	15.449
10,475.00	10,317.58	10,138.32	9,818.88	16.88	10.96	51.34	-27.46	-848.35	578.29	542.08	36.20	15.973
10,500.00	10,336.52	10,112.00	9,814.89	16.88	10.83	46.36	-2.35	-841.56	599.49	563.13	36.36	16.489
10,525.00	10,354.58	10,112.00	9,814.89	16.88	10.83	43.61	-2.35	-841.56	619.30	582.89	36.41	17.008
10,550.00	10,371.71	10,112.00	9,814.89	16.89	10.83	41.05	-2.35	-841.56	638.91	602.47	36.44	17.532
10,575.00	10,387.87	10,112.00	9,814.89	16.90	10.83	38.69	-2.35	-841.56	658.29	621.84	36.45	18.059
10,600.00	10,403.00	10,112.00	9,814.89	16.91	10.83	36.52	-2.35	-841.56	677.41	640.97	36.44	18.591
10,625.00	10,417.07	10,112.00	9,814.89	16.93	10.83	34.53	-2.35	-841.56	696.23	659.82	36.40	19.126
10,650.00	10,430.04	10,093.07	9,811.23	16.94	10.74	32.52	15.49	-836.37	714.04	677.60	36.44	19.594
10,675.00	10,441.88	10,086.63	9,809.80	16.97	10.71	30.91	21.49	-834.55	731.66	695.26	36.41	20.097
10,700.00	10,452.55	10,080.10	9,808.26	16.99	10.68	29.47	27.56	-832.68	748.76	712.40	36.36	20.595
10,725.00	10,462.01	10,063.00	9,803.76	17.02	10.61	28.21	43.27	-827.67	765.52	729.17	36.35	21.061
10,750.00	10,470.26	10,063.00	9,803.76	17.06	10.61	27.08	43.27	-827.67	781.32	745.08	36.24	21.561
10,775.00	10,477.26	10,063.00	9,803.76	17.10	10.61	26.03	43.27	-827.67	796.70	760.59	36.11	22.063
10,800.00	10,482.99	10,063.00	9,803.76	17.14	10.61	25.07	43.27	-827.67	811.64	775.67	35.97	22.566
10,825.00	10,487.44	10,045.63	9,798.49	17.19	10.53	24.35	59.00	-822.52	825.60	789.68	35.92	22.986
10,850.00	10,490.60	10,038.39	9,796.09	17.24	10.50	23.64	65.49	-820.38	839.09	803.29	35.79	23.442
10,875.00	10,492.46	10,016.00	9,787.87	17.29	10.40	23.17	85.25	-813.82	852.31	816.55	35.76	23.834
10,894.59	10,493.00	10,016.00	9,787.87	17.33	10.40	22.67	85.25	-813.82	861.65	826.04	35.61	24.196
10,900.00	10,493.04	10,016.00	9,787.87	17.34	10.40	22.67	85.25	-813.82	864.20	828.63	35.57	24.297
11,000.00	10,493.75	9,988.56	9,776.43	17.60	10.29	22.92	108.97	-806.12	914.87	879.85	35.02	26.126
11,100.00	10,494.46	9,954.25	9,760.29	17.89	10.16	23.11	137.92	-797.28	970.18	935.61	34.57	28.065

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - MOMBA FEDERAL COM 901H - OWB - PWP1													Offset Site Error: 0.00 usft
Survey Program: 0-Standard Keeper 104, 10279-r.5 MWD+IFR1+FDIR													Offset Well Error: 3.00 usft
Reference													Rule Assigned:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		No-Go Distance (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	13.50	0.00	3.00	-24.68	742.80	-341.40	817.61				
100.00	100.00	86.50	100.00	0.77	3.00	-24.68	742.80	-341.40	817.50	812.70	4.80	170.350	
200.00	200.00	186.50	200.00	1.44	3.00	-24.68	742.80	-341.40	817.50	812.38	5.12	159.557	
300.00	300.00	286.50	300.00	1.88	3.01	-24.68	742.80	-341.40	817.50	812.06	5.44	150.395	
400.00	400.00	386.50	400.00	2.25	3.03	-24.68	742.80	-341.40	817.50	811.76	5.74	142.487	
500.00	500.00	486.50	500.00	2.56	3.05	-24.68	742.80	-341.40	817.50	811.47	6.03	135.565	
600.00	600.00	586.50	600.00	2.84	3.08	-24.68	742.80	-341.40	817.50	811.18	6.32	129.436	
700.00	700.00	686.50	700.00	3.10	3.11	-24.68	742.80	-341.40	817.50	810.90	6.60	123.957	
800.00	800.00	786.50	800.00	3.34	3.15	-24.68	742.80	-341.40	817.50	810.63	6.87	119.019	
900.00	900.00	886.50	900.00	3.57	3.19	-24.68	742.80	-341.40	817.50	810.36	7.14	114.537	
1,000.00	1,000.00	986.50	1,000.00	3.79	3.24	-24.68	742.80	-341.40	817.50	810.10	7.40	110.444	
1,100.00	1,100.00	1,086.50	1,100.00	3.99	3.29	-24.68	742.80	-341.40	817.50	809.84	7.66	106.687	
1,200.00	1,200.00	1,186.50	1,200.00	4.19	3.35	-24.68	742.80	-341.40	817.50	809.58	7.92	103.222	
1,300.00	1,300.00	1,286.50	1,300.00	4.38	3.41	-24.68	742.80	-341.40	817.50	809.33	8.17	100.012	
1,400.00	1,400.00	1,386.50	1,400.00	4.56	3.47	-24.68	742.80	-341.40	817.50	809.07	8.43	97.028	
1,500.00	1,500.00	1,486.50	1,500.00	4.74	3.54	-24.68	742.80	-341.40	817.50	808.83	8.67	94.244	
1,600.00	1,600.00	1,586.50	1,600.00	4.91	3.61	-24.68	742.80	-341.40	817.50	808.58	8.92	91.639	
1,700.00	1,700.00	1,686.50	1,700.00	5.08	3.69	-24.68	742.80	-341.40	817.50	808.33	9.17	89.194	
1,800.00	1,800.00	1,786.50	1,800.00	5.24	3.76	-24.68	742.80	-341.40	817.50	808.09	9.41	86.895	
1,900.00	1,900.00	1,886.50	1,900.00	5.40	3.84	-24.68	742.80	-341.40	817.50	807.85	9.65	84.726	
2,000.00	2,000.00	1,986.50	2,000.00	5.56	3.93	-24.68	742.80	-341.40	817.50	807.61	9.89	82.677	
2,100.00	2,099.98	2,086.48	2,099.98	5.78	4.01	65.44	742.80	-341.40	816.77	806.64	10.13	80.628	
2,200.00	2,199.84	2,186.34	2,199.84	6.00	4.10	65.81	742.80	-341.40	814.61	804.25	10.36	78.637	
2,300.00	2,299.45	2,285.95	2,299.45	6.21	4.19	66.44	742.80	-341.40	811.07	800.48	10.59	76.598	
2,400.00	2,398.70	2,385.20	2,398.70	6.42	4.29	67.32	742.80	-341.40	806.25	795.44	10.82	74.521	
2,500.00	2,497.47	2,483.97	2,497.47	6.62	4.38	68.45	742.80	-341.40	800.30	789.25	11.05	72.417	
2,600.00	2,595.62	2,590.95	2,604.43	6.83	4.45	70.06	742.80	-339.96	792.94	781.68	11.26	70.411	
2,700.00	2,693.06	2,696.89	2,710.23	7.03	4.49	72.24	742.80	-334.64	783.78	772.35	11.44	68.531	
2,750.00	2,741.46	2,748.54	2,761.73	7.08	4.51	73.51	742.80	-330.63	778.75	767.27	11.49	67.797	
2,800.00	2,789.76	2,795.64	2,808.65	7.12	4.52	74.66	742.80	-326.52	773.79	762.25	11.54	67.055	
2,900.00	2,886.35	2,889.61	2,902.26	7.26	4.56	76.99	742.80	-318.33	764.91	753.18	11.73	65.227	
3,000.00	2,982.94	2,983.58	2,995.88	7.41	4.60	79.37	742.80	-310.14	757.48	745.55	11.92	63.522	
3,100.00	3,079.54	3,077.55	3,089.49	7.55	4.64	81.78	742.80	-301.95	751.52	739.39	12.13	61.943	
3,200.00	3,176.13	3,171.52	3,183.10	7.71	4.68	84.22	742.80	-293.76	747.09	734.74	12.35	60.494	
3,300.00	3,272.72	3,265.49	3,276.71	7.86	4.73	86.69	742.80	-285.57	744.21	731.63	12.58	59.176	
3,400.00	3,369.31	3,359.46	3,370.32	8.02	4.78	89.16	742.80	-277.38	742.89	730.08	12.81	57.989	
3,433.95	3,402.11	3,391.36	3,402.10	8.08	4.80	90.00	742.80	-274.60	742.80	729.91	12.89	57.613 CC, ES	
3,500.00	3,465.91	3,453.43	3,463.93	8.19	4.83	91.64	742.80	-269.19	743.14	730.09	13.05	56.930	
3,600.00	3,562.50	3,547.40	3,557.55	8.35	4.89	94.11	742.80	-261.00	744.97	731.67	13.30	55.998	
3,700.00	3,659.09	3,641.37	3,651.16	8.52	4.95	96.57	742.80	-252.81	748.36	734.80	13.56	55.188	
3,800.00	3,755.68	3,735.34	3,744.77	8.70	5.01	99.00	742.80	-244.62	753.28	739.46	13.82	54.496	
3,900.00	3,852.28	3,829.31	3,838.38	8.87	5.07	101.40	742.80	-236.43	759.72	745.63	14.09	53.916	
4,000.00	3,948.87	3,923.27	3,931.99	9.05	5.14	103.76	742.80	-228.24	767.62	753.26	14.36	53.443	
4,100.00	4,045.46	4,017.24	4,025.60	9.23	5.20	106.08	742.80	-220.05	776.96	762.32	14.64	53.068	
4,200.00	4,142.05	4,111.21	4,119.22	9.42	5.27	108.34	742.80	-211.86	787.67	772.74	14.92	52.786	
4,300.00	4,238.65	4,205.18	4,212.83	9.60	5.34	110.54	742.80	-203.67	799.69	784.49	15.21	52.589	
4,400.00	4,335.24	4,299.15	4,306.44	9.79	5.42	112.69	742.80	-195.48	812.98	797.49	15.49	52.471	
4,500.00	4,431.83	4,393.12	4,400.05	9.98	5.49	114.76	742.80	-187.29	827.48	811.69	15.78	52.423 SF	
4,600.00	4,528.42	4,487.09	4,493.66	10.18	5.57	116.77	742.80	-179.10	843.11	827.03	16.08	52.440	
4,700.00	4,625.02	4,581.06	4,587.27	10.37	5.65	118.72	742.80	-170.91	859.82	843.44	16.37	52.515	
4,800.00	4,721.61	4,675.03	4,680.89	10.57	5.73	120.59	742.80	-162.72	877.54	860.87	16.67	52.641	

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - MOMBA FEDERAL COM 901H - OWB - PWP1												Offset Site Error:	0.00 usft
Survey Program: 0-Standard Keeper 104, 10279-r.5 MWD+IFR1+FDIR												Offset Well Error:	3.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		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)	Separation Factor	
4,900.00	4,818.20	4,769.00	4,774.50	10.77	5.81	122.39	742.80	-154.53	896.22	879.25	16.97	52.812	
5,000.00	4,914.80	4,862.97	4,868.11	10.97	5.89	124.12	742.80	-146.34	915.79	898.52	17.27	53.024	
5,100.00	5,011.39	4,956.94	4,961.72	11.17	5.98	125.79	742.80	-138.15	936.21	918.64	17.57	53.271	
5,200.00	5,107.98	5,050.91	5,055.33	11.37	6.07	127.39	742.80	-129.96	957.41	939.53	17.88	53.549	
5,300.00	5,204.57	5,144.88	5,148.94	11.57	6.15	128.92	742.80	-121.77	979.35	961.17	18.19	53.853	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - MOMBA FEDERAL COM 902H - OWB - PWP2													Offset Site Error: 0.00 usft
Survey Program: 0-Standard Keeper 104, 10198-r.5 MWD+IFR1+FDIR													Offset Well Error: 3.00 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.00	0.00	0.00	13.60	0.00	3.00	-26.57	742.60	-371.30	830.36				
100.00	100.00	86.40	100.00	0.77	3.00	-26.57	742.60	-371.30	830.25	825.45	4.80	173.008	
200.00	200.00	186.40	200.00	1.44	3.00	-26.57	742.60	-371.30	830.25	825.13	5.12	162.049	
300.00	300.00	286.40	300.00	1.88	3.01	-26.57	742.60	-371.30	830.25	824.82	5.44	152.750	
400.00	400.00	386.40	400.00	2.25	3.03	-26.57	742.60	-371.30	830.25	824.52	5.74	144.726	
500.00	500.00	486.40	500.00	2.56	3.05	-26.57	742.60	-371.30	830.25	824.22	6.03	137.703	
600.00	600.00	586.40	600.00	2.84	3.08	-26.57	742.60	-371.30	830.25	823.94	6.31	131.486	
700.00	700.00	686.40	700.00	3.10	3.11	-26.57	742.60	-371.30	830.25	823.66	6.59	125.929	
800.00	800.00	786.40	800.00	3.34	3.15	-26.57	742.60	-371.30	830.25	823.39	6.87	120.921	
900.00	900.00	886.40	900.00	3.57	3.19	-26.57	742.60	-371.30	830.25	823.12	7.13	116.376	
1,000.00	1,000.00	986.40	1,000.00	3.79	3.24	-26.57	742.60	-371.30	830.25	822.85	7.40	112.226	
1,100.00	1,100.00	1,086.40	1,100.00	3.99	3.29	-26.57	742.60	-371.30	830.25	822.59	7.66	108.416	
1,200.00	1,200.00	1,186.40	1,200.00	4.19	3.35	-26.57	742.60	-371.30	830.25	822.34	7.91	104.902	
1,300.00	1,300.00	1,286.40	1,300.00	4.38	3.41	-26.57	742.60	-371.30	830.25	822.08	8.17	101.648	
1,400.00	1,400.00	1,386.40	1,400.00	4.56	3.47	-26.57	742.60	-371.30	830.25	821.83	8.42	98.622	
1,500.00	1,500.00	1,486.40	1,500.00	4.74	3.54	-26.57	742.60	-371.30	830.25	821.59	8.67	95.800	
1,600.00	1,600.00	1,586.40	1,600.00	4.91	3.61	-26.57	742.60	-371.30	830.25	821.34	8.91	93.158	
1,700.00	1,700.00	1,686.40	1,700.00	5.08	3.69	-26.57	742.60	-371.30	830.25	821.10	9.16	90.680	
1,800.00	1,800.00	1,786.40	1,800.00	5.24	3.76	-26.57	742.60	-371.30	830.25	820.85	9.40	88.348	
1,900.00	1,900.00	1,886.40	1,900.00	5.40	3.84	-26.57	742.60	-371.30	830.25	820.61	9.64	86.150	
2,000.00	2,000.00	1,986.40	2,000.00	5.56	3.93	-26.57	742.60	-371.30	830.25	820.38	9.88	84.072	
2,100.00	2,099.98	2,086.38	2,099.98	5.78	4.01	63.56	742.60	-371.30	829.47	819.35	10.12	81.968	
2,200.00	2,199.84	2,186.24	2,199.84	6.00	4.10	63.92	742.60	-371.30	827.15	816.80	10.35	79.918	
2,300.00	2,299.45	2,285.85	2,299.45	6.21	4.19	64.53	742.60	-371.30	823.35	812.77	10.58	77.813	
2,400.00	2,398.70	2,385.10	2,398.70	6.42	4.29	65.39	742.60	-371.30	818.16	807.35	10.81	75.663	
2,500.00	2,497.47	2,483.87	2,497.47	6.62	4.38	66.51	742.60	-371.30	811.72	800.68	11.05	73.480	
2,600.00	2,595.62	2,582.02	2,595.62	6.83	4.48	67.87	742.60	-371.30	804.21	792.92	11.28	71.278	
2,700.00	2,693.06	2,679.46	2,693.06	7.03	4.57	69.50	742.60	-371.30	795.84	784.32	11.52	69.069	
2,750.00	2,741.46	2,727.86	2,741.46	7.08	4.62	70.40	742.60	-371.30	791.43	779.82	11.60	68.203	
2,800.00	2,789.76	2,776.16	2,789.76	7.12	4.67	71.27	742.60	-371.30	787.05	775.36	11.69	67.341	
2,900.00	2,886.35	2,872.75	2,886.35	7.26	4.77	73.01	742.60	-371.30	778.85	766.92	11.93	65.269	
3,000.00	2,982.94	2,969.34	2,982.94	7.41	4.87	74.79	742.60	-371.30	771.45	759.26	12.19	63.305	
3,100.00	3,079.54	3,065.94	3,079.54	7.55	4.97	76.60	742.60	-371.30	764.84	752.39	12.45	61.451	
3,200.00	3,176.13	3,162.53	3,176.13	7.71	5.07	78.44	742.60	-371.30	759.06	746.35	12.71	59.708	
3,300.00	3,272.72	3,259.12	3,272.72	7.86	5.17	80.31	742.60	-371.30	754.12	741.14	12.98	58.078	
3,400.00	3,369.31	3,355.71	3,369.31	8.02	5.28	82.19	742.60	-371.30	750.05	736.79	13.26	56.559	
3,500.00	3,465.91	3,452.31	3,465.91	8.19	5.38	84.09	742.60	-371.30	746.85	733.31	13.54	55.151	
3,600.00	3,562.50	3,548.90	3,562.50	8.35	5.49	86.01	742.60	-371.30	744.54	730.71	13.83	53.852	
3,700.00	3,659.09	3,645.49	3,659.09	8.52	5.60	87.93	742.60	-371.30	743.12	729.01	14.11	52.659	
3,800.00	3,755.68	3,742.08	3,755.68	8.70	5.70	89.86	742.60	-371.30	742.60	728.20	14.40	51.569	
3,807.40	3,762.83	3,749.23	3,762.83	8.71	5.71	90.00	742.60	-371.30	742.60	728.18	14.42	51.492 CC, ES	
3,900.00	3,852.28	3,838.68	3,852.28	8.87	5.81	91.78	742.60	-371.30	742.99	728.30	14.69	50.579	
4,000.00	3,948.87	3,935.27	3,948.87	9.05	5.92	93.71	742.60	-371.30	744.27	729.29	14.98	49.685	
4,100.00	4,045.46	4,031.86	4,045.46	9.23	6.03	95.63	742.60	-371.30	746.45	731.18	15.27	48.882	
4,200.00	4,142.05	4,128.45	4,142.05	9.42	6.14	97.53	742.60	-371.30	749.52	733.96	15.56	48.167	
4,300.00	4,238.65	4,225.05	4,238.65	9.60	6.25	99.42	742.60	-371.30	753.46	737.61	15.85	47.535	
4,400.00	4,335.24	4,321.64	4,335.24	9.79	6.37	101.28	742.60	-371.30	758.27	742.13	16.14	46.981	
4,500.00	4,431.83	4,418.23	4,431.83	9.98	6.48	103.12	742.60	-371.30	763.93	747.50	16.43	46.500	
4,600.00	4,528.42	4,514.82	4,528.42	10.18	6.59	104.94	742.60	-371.30	770.41	753.70	16.72	46.089	
4,700.00	4,625.02	4,611.42	4,625.02	10.37	6.71	106.72	742.60	-371.30	777.70	760.70	17.00	45.742	
4,800.00	4,721.61	4,708.01	4,721.61	10.57	6.82	108.48	742.60	-371.30	785.78	768.49	17.29	45.455	

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - MOMBA FEDERAL COM 902H - OWB - PWP2													Offset Site Error: 0.00 usft
Survey Program: 0-Standard Keeper 104, 10198-r.5 MWD+IFR1+FDIR							Rule Assigned:						Offset Well Error: 3.00 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance			Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
4,900.00	4,818.20	4,804.60	4,818.20	10.77	6.93	110.19	742.60	-371.30	794.62	777.05	17.57	45.223	
5,000.00	4,914.80	4,901.20	4,914.80	10.97	7.05	111.87	742.60	-371.30	804.19	786.34	17.85	45.043	
5,100.00	5,011.39	4,997.79	5,011.39	11.17	7.16	113.52	742.60	-371.30	814.48	796.34	18.14	44.910	
5,200.00	5,107.98	5,094.38	5,107.98	11.37	7.28	115.12	742.60	-371.30	825.44	807.03	18.42	44.820	
5,300.00	5,204.57	5,190.97	5,204.57	11.57	7.40	116.68	742.60	-371.30	837.07	818.37	18.70	44.769	
5,400.00	5,301.17	5,287.57	5,301.17	11.78	7.51	118.20	742.60	-371.30	849.32	830.35	18.98	44.754 SF	
5,500.00	5,397.76	5,384.16	5,397.76	11.99	7.63	119.67	742.60	-371.30	862.18	842.93	19.26	44.772	
5,600.00	5,494.35	5,480.75	5,494.35	12.20	7.75	121.11	742.60	-371.30	875.62	856.08	19.54	44.819	
5,700.00	5,590.94	5,560.20	5,573.79	12.41	7.83	122.27	742.94	-370.77	890.35	870.56	19.78	45.003	
5,800.00	5,687.54	5,634.50	5,648.05	12.62	7.90	123.38	744.32	-368.65	907.89	887.87	20.02	45.341	
5,885.37	5,770.00	5,701.80	5,715.23	12.79	7.96	124.40	746.47	-365.34	925.15	904.93	20.22	45.747	
5,900.00	5,784.13	5,709.58	5,722.99	12.81	7.96	124.54	746.77	-364.89	928.28	908.04	20.24	45.857	
6,000.00	5,881.01	5,804.75	5,817.93	13.04	8.04	126.06	750.42	-359.27	949.56	929.02	20.54	46.226	
6,100.00	5,978.31	5,900.44	5,913.39	13.25	8.12	127.44	754.10	-353.62	970.31	949.49	20.82	46.615	
6,200.00	6,075.99	5,996.62	6,009.33	13.45	8.20	128.69	757.79	-347.95	990.41	969.32	21.09	46.969	

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - MOMBA FEDERAL COM 903H - OWB - PWP2													Offset Site Error: 0.00 usft
Survey Program: 0-Standard Keeper 104, 10195-r.5 MWD+IFR1+FDIR													Offset Well Error: 3.00 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)			
0.00	0.00	0.00	14.00	0.00	3.00	-28.39	742.40	-401.30	844.04				
100.00	100.00	86.00	100.00	0.77	3.00	-28.39	742.40	-401.30	843.92	839.12	4.80	175.856	
200.00	200.00	186.00	200.00	1.44	3.00	-28.39	742.40	-401.30	843.92	838.80	5.12	164.720	
300.00	300.00	286.00	300.00	1.88	3.01	-28.39	742.40	-401.30	843.92	838.48	5.44	155.275	
400.00	400.00	386.00	400.00	2.25	3.03	-28.39	742.40	-401.30	843.92	838.18	5.74	147.125	
500.00	500.00	486.00	500.00	2.56	3.05	-28.39	742.40	-401.30	843.92	837.89	6.03	139.995	
600.00	600.00	586.00	600.00	2.84	3.08	-28.39	742.40	-401.30	843.92	837.61	6.31	133.683	
700.00	700.00	686.00	700.00	3.10	3.11	-28.39	742.40	-401.30	843.92	837.33	6.59	128.042	
800.00	800.00	786.00	800.00	3.34	3.15	-28.39	742.40	-401.30	843.92	837.06	6.86	122.959	
900.00	900.00	886.00	900.00	3.57	3.19	-28.39	742.40	-401.30	843.92	836.79	7.13	118.346	
1,000.00	1,000.00	986.00	1,000.00	3.79	3.24	-28.39	742.40	-401.30	843.92	836.53	7.39	114.135	
1,100.00	1,100.00	1,086.00	1,100.00	3.99	3.29	-28.39	742.40	-401.30	843.92	836.27	7.65	110.269	
1,200.00	1,200.00	1,186.00	1,200.00	4.19	3.35	-28.39	742.40	-401.30	843.92	836.01	7.91	106.703	
1,300.00	1,300.00	1,286.00	1,300.00	4.38	3.41	-28.39	742.40	-401.30	843.92	835.76	8.16	103.401	
1,400.00	1,400.00	1,386.00	1,400.00	4.56	3.47	-28.39	742.40	-401.30	843.92	835.51	8.41	100.330	
1,500.00	1,500.00	1,486.00	1,500.00	4.74	3.54	-28.39	742.40	-401.30	843.92	835.26	8.66	97.466	
1,600.00	1,600.00	1,586.00	1,600.00	4.91	3.61	-28.39	742.40	-401.30	843.92	835.02	8.90	94.786	
1,700.00	1,700.00	1,686.00	1,700.00	5.08	3.69	-28.39	742.40	-401.30	843.92	834.77	9.15	92.271	
1,800.00	1,800.00	1,786.00	1,800.00	5.24	3.76	-28.39	742.40	-401.30	843.92	834.53	9.39	89.905	
1,900.00	1,900.00	1,886.00	1,900.00	5.40	3.84	-28.39	742.40	-401.30	843.92	834.29	9.63	87.674	
2,000.00	2,000.00	1,986.00	2,000.00	5.56	3.93	-28.39	742.40	-401.30	843.92	834.06	9.86	85.565	
2,100.00	2,099.98	2,085.98	2,099.98	5.78	4.01	61.73	742.40	-401.30	843.09	832.98	10.11	83.404	
2,200.00	2,199.84	2,185.84	2,199.84	6.00	4.10	62.08	742.40	-401.30	840.62	830.28	10.34	81.293	
2,300.00	2,299.45	2,285.45	2,299.45	6.21	4.19	62.68	742.40	-401.30	836.57	826.00	10.57	79.120	
2,400.00	2,398.70	2,384.70	2,398.70	6.42	4.29	63.52	742.40	-401.30	831.02	820.22	10.81	76.896	
2,500.00	2,497.47	2,483.47	2,497.47	6.62	4.38	64.61	742.40	-401.30	824.11	813.07	11.04	74.633	
2,600.00	2,595.62	2,581.62	2,595.62	6.83	4.48	65.95	742.40	-401.30	816.01	804.73	11.28	72.344	
2,700.00	2,693.06	2,679.06	2,693.06	7.03	4.57	67.55	742.40	-401.30	806.93	795.41	11.52	70.043	
2,750.00	2,741.46	2,727.46	2,741.46	7.08	4.62	68.44	742.40	-401.30	802.11	790.51	11.60	69.135	
2,800.00	2,789.76	2,775.76	2,789.76	7.12	4.67	69.28	742.40	-401.30	797.30	785.62	11.69	68.232	
2,900.00	2,886.35	2,872.35	2,886.35	7.26	4.77	70.99	742.40	-401.30	788.23	776.30	11.93	66.072	
3,000.00	2,982.94	2,968.94	2,982.94	7.41	4.87	72.73	742.40	-401.30	779.92	767.73	12.18	64.019	
3,100.00	3,079.54	3,065.54	3,079.54	7.55	4.97	74.50	742.40	-401.30	772.38	759.94	12.44	62.075	
3,200.00	3,176.13	3,162.13	3,176.13	7.71	5.07	76.31	742.40	-401.30	765.64	752.93	12.71	60.244	
3,300.00	3,272.72	3,258.72	3,272.72	7.86	5.17	78.15	742.40	-401.30	759.73	746.75	12.98	58.524	
3,400.00	3,369.31	3,355.31	3,369.31	8.02	5.28	80.01	742.40	-401.30	754.66	741.40	13.26	56.918	
3,500.00	3,465.91	3,451.91	3,465.91	8.19	5.38	81.89	742.40	-401.30	750.44	736.90	13.54	55.423	
3,600.00	3,562.50	3,548.50	3,562.50	8.35	5.49	83.79	742.40	-401.30	747.10	733.28	13.83	54.039	
3,700.00	3,659.09	3,645.09	3,659.09	8.52	5.60	85.70	742.40	-401.30	744.65	730.53	14.11	52.762	
3,800.00	3,755.68	3,741.68	3,755.68	8.70	5.70	87.62	742.40	-401.30	743.09	728.68	14.40	51.591	
3,900.00	3,852.28	3,838.28	3,852.28	8.87	5.81	89.55	742.40	-401.30	742.42	727.73	14.70	50.522	
3,923.30	3,874.78	3,860.78	3,874.78	8.92	5.84	90.00	742.40	-401.30	742.40	727.64	14.76	50.286	
4,000.00	3,948.87	3,934.87	3,948.87	9.05	5.92	91.48	742.40	-401.30	742.67	727.68	14.99	49.552	
4,100.00	4,045.46	4,031.46	4,045.46	9.23	6.03	93.40	742.40	-401.30	743.81	728.53	15.28	48.676	
4,200.00	4,142.05	4,128.05	4,142.05	9.42	6.14	95.32	742.40	-401.30	745.85	730.27	15.57	47.891	
4,300.00	4,238.65	4,224.65	4,238.65	9.60	6.25	97.23	742.40	-401.30	748.77	732.91	15.87	47.192	
4,400.00	4,335.24	4,321.24	4,335.24	9.79	6.37	99.12	742.40	-401.30	752.58	736.42	16.16	46.574	
4,500.00	4,431.83	4,417.83	4,431.83	9.98	6.48	100.99	742.40	-401.30	757.25	740.80	16.45	46.034	
4,600.00	4,528.42	4,514.42	4,528.42	10.18	6.59	102.84	742.40	-401.30	762.78	746.04	16.74	45.567	
4,700.00	4,625.02	4,611.02	4,625.02	10.37	6.70	104.66	742.40	-401.30	769.13	752.10	17.03	45.167	
4,800.00	4,721.61	4,707.61	4,721.61	10.57	6.82	106.45	742.40	-401.30	776.30	758.98	17.32	44.831	

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - MOMBA FEDERAL COM 903H - OWB - PWP2													Offset Site Error:	0.00 usft
Survey Program:		0-Standard Keeper 104, 10195-r.5 MWD+IFR1+FDIR						Rule Assigned:					Offset Well Error:	3.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance			Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)			
4,900.00	4,818.20	4,804.20	4,818.20	10.77	6.93	108.21	742.40	-401.30	784.25	766.65	17.60	44.554		
5,000.00	4,914.80	4,900.80	4,914.80	10.97	7.05	109.93	742.40	-401.30	792.97	775.09	17.89	44.332		
5,100.00	5,011.39	4,997.39	5,011.39	11.17	7.16	111.62	742.40	-401.30	802.44	784.26	18.17	44.160		
5,200.00	5,107.98	5,093.98	5,107.98	11.37	7.28	113.26	742.40	-401.30	812.61	794.16	18.45	44.035		
5,300.00	5,204.57	5,190.57	5,204.57	11.57	7.40	114.87	742.40	-401.30	823.47	804.74	18.74	43.953		
5,400.00	5,301.17	5,287.17	5,301.17	11.78	7.51	116.44	742.40	-401.30	835.00	815.98	19.02	43.909		
5,500.00	5,397.76	5,383.76	5,397.76	11.99	7.63	117.97	742.40	-401.30	847.16	827.86	19.30	43.901		
5,600.00	5,494.35	5,480.35	5,494.35	12.20	7.75	119.45	742.40	-401.30	859.92	840.35	19.58	43.926		
5,700.00	5,590.94	5,584.34	5,598.33	12.41	7.85	120.92	742.72	-402.50	872.95	853.10	19.84	43.990		
5,800.00	5,687.54	5,691.83	5,705.68	12.62	7.91	122.16	744.06	-407.50	885.38	865.29	20.08	44.085		
5,885.37	5,770.00	5,781.35	5,794.91	12.79	7.97	122.99	745.93	-414.47	895.38	875.10	20.28	44.161		
5,900.00	5,784.13	5,795.74	5,809.25	12.81	7.97	123.13	746.25	-415.68	897.07	876.77	20.30	44.187		
6,000.00	5,881.01	5,894.34	5,907.47	13.04	8.03	124.01	748.48	-423.98	908.18	887.62	20.56	44.176		
6,100.00	5,978.31	5,993.21	6,005.97	13.25	8.10	124.78	750.71	-432.30	918.47	897.69	20.79	44.185		
6,200.00	6,075.99	6,092.32	6,104.70	13.45	8.16	125.44	752.94	-440.65	927.89	906.88	21.01	44.160		
6,300.00	6,174.03	6,191.65	6,203.65	13.65	8.22	125.99	755.18	-449.01	936.38	915.15	21.23	44.101		
6,400.00	6,272.40	6,291.16	6,302.78	13.85	8.29	126.44	757.43	-457.39	943.90	922.45	21.45	44.007		
6,500.00	6,371.07	6,390.82	6,402.06	14.04	8.36	126.80	759.68	-465.78	950.42	928.76	21.66	43.879		
6,600.00	6,470.01	6,490.60	6,501.47	14.23	8.43	127.06	761.93	-474.18	955.92	934.05	21.87	43.717		
6,700.00	6,569.18	6,590.48	6,600.96	14.41	8.50	127.22	764.18	-482.59	960.38	938.31	22.07	43.522		
6,800.00	6,668.57	6,690.42	6,700.52	14.59	8.57	127.29	766.44	-491.00	963.78	941.52	22.26	43.296		
6,900.00	6,768.13	6,790.39	6,800.11	14.76	8.65	127.27	768.69	-499.42	966.13	943.68	22.45	43.039		
7,000.00	6,867.84	6,890.36	6,899.70	14.93	8.73	127.16	770.95	-507.83	967.42	944.79	22.63	42.755		
7,100.00	6,967.67	6,990.30	6,999.26	15.09	8.80	126.96	773.20	-516.25	967.67	944.87	22.80	42.444		
7,200.00	7,067.58	7,090.18	7,098.76	15.24	8.88	126.67	775.45	-524.65	966.89	943.92	22.96	42.109		
7,300.00	7,167.55	7,189.96	7,198.17	15.38	8.96	126.29	777.70	-533.05	965.09	941.98	23.11	41.755		
7,385.37	7,252.92	7,275.06	7,282.94	15.44	9.03	35.89	779.62	-540.22	962.78	939.57	23.21	41.489		
7,400.00	7,267.55	7,289.63	7,297.46	15.45	9.04	35.82	779.95	-541.45	962.33	939.11	23.21	41.457		
7,500.00	7,367.55	7,389.25	7,396.70	15.51	9.13	35.33	782.20	-549.83	959.25	935.92	23.33	41.113		
7,600.00	7,467.55	7,488.87	7,495.94	15.56	9.21	34.85	784.45	-558.22	956.25	932.82	23.43	40.811		
7,700.00	7,567.55	7,588.49	7,595.18	15.61	9.30	34.35	786.69	-566.61	953.31	929.78	23.53	40.511		
7,800.00	7,667.55	7,688.11	7,694.42	15.65	9.38	33.86	788.94	-574.99	950.45	926.82	23.63	40.214		
7,900.00	7,767.55	7,787.73	7,793.66	15.70	9.47	33.36	791.19	-583.38	947.66	923.92	23.74	39.919		
8,000.00	7,867.55	7,887.35	7,892.90	15.75	9.56	32.86	793.43	-591.76	944.94	921.10	23.85	39.627		
8,100.00	7,967.55	7,986.97	7,992.14	15.80	9.65	32.36	795.68	-600.15	942.30	918.34	23.95	39.338		
8,200.00	8,067.55	8,086.59	8,091.38	15.85	9.74	31.86	797.93	-608.54	939.72	915.66	24.06	39.051		
8,300.00	8,167.55	8,186.21	8,190.62	15.90	9.83	31.35	800.18	-616.92	937.22	913.05	24.18	38.767		
8,400.00	8,267.55	8,285.83	8,289.86	15.95	9.93	30.84	802.42	-625.31	934.80	910.51	24.29	38.485		
8,500.00	8,367.55	8,385.45	8,389.10	16.00	10.02	30.32	804.67	-633.70	932.45	908.04	24.41	38.206		
8,600.00	8,467.55	8,485.07	8,488.34	16.05	10.11	29.81	806.92	-642.08	930.18	905.65	24.52	37.931		
8,700.00	8,567.55	8,584.69	8,587.58	16.10	10.21	29.29	809.17	-650.47	927.98	903.34	24.64	37.658		
8,800.00	8,667.55	8,684.31	8,686.82	16.15	10.31	28.77	811.41	-658.86	925.86	901.10	24.76	37.388		
8,900.00	8,767.55	8,783.93	8,786.06	16.21	10.40	28.24	813.66	-667.24	923.82	898.93	24.89	37.120		
9,000.00	8,867.55	8,883.55	8,885.30	16.26	10.50	27.72	815.91	-675.63	921.85	896.84	25.01	36.856		
9,100.00	8,967.55	8,983.17	8,984.55	16.31	10.60	27.19	818.15	-684.02	919.97	894.83	25.14	36.595		
9,200.00	9,067.55	9,082.79	9,083.79	16.36	10.70	26.66	820.40	-692.40	918.16	892.89	25.27	36.337		
9,300.00	9,167.55	9,182.40	9,183.03	16.41	10.80	26.13	822.65	-700.79	916.43	891.03	25.40	36.082		
9,400.00	9,267.55	9,282.02	9,282.27	16.47	10.91	25.60	824.90	-709.18	914.78	889.25	25.53	35.830		
9,500.00	9,367.55	9,381.64	9,381.51	16.52	11.01	25.06	827.14	-717.56	913.21	887.55	25.67	35.581		
9,600.00	9,467.55	9,481.26	9,480.75	16.57	11.11	24.52	829.39	-725.95	911.72	885.92	25.80	35.335		
9,700.00	9,567.55	9,580.88	9,579.99	16.63	11.22	23.98	831.64	-734.34	910.32	884.38	25.94	35.093		

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - MOMBA FEDERAL COM 903H - OWB - PWP2												Offset Site Error:	0.00 usft
Survey Program:		0-Standard Keeper 104, 10195-r.5 MWD+IFR1+FDIR						Rule Assigned:				Offset Well Error:	3.00 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
9,800.00	9,667.55	9,680.50	9,679.23	16.68	11.32	23.44	833.88	-742.72	908.99	882.91	26.08	34.853	
9,900.00	9,767.55	9,780.12	9,778.47	16.73	11.43	22.90	836.13	-751.11	907.75	881.53	26.22	34.617	
10,000.00	9,867.55	9,879.74	9,877.71	16.79	11.53	22.36	838.38	-759.50	906.59	880.22	26.37	34.384	
10,100.00	9,967.55	11,400.00	10,767.04	16.84	13.53	94.30	-12.32	-940.42	816.21	775.63	40.58	20.113	
10,148.00	10,015.55	11,400.00	10,767.04	16.85	13.53	94.30	-12.32	-940.42	769.25	728.39	40.87	18.823	
10,150.00	10,017.55	11,400.00	10,767.04	16.85	13.53	97.38	-12.32	-940.42	767.30	726.43	40.87	18.774	
10,175.00	10,042.54	11,400.00	10,767.04	16.86	13.53	110.07	-12.32	-940.42	742.93	702.03	40.90	18.163	
10,200.00	10,067.45	11,395.53	10,767.07	16.87	13.51	119.43	-7.85	-940.27	718.70	677.79	40.92	17.565	
10,225.00	10,092.22	11,392.19	10,767.09	16.87	13.50	127.23	-4.52	-940.14	694.69	653.76	40.93	16.973	
10,250.00	10,116.78	11,387.65	10,767.12	16.87	13.49	133.16	0.03	-939.97	670.97	630.04	40.93	16.392	
10,275.00	10,141.06	11,381.90	10,767.16	16.87	13.47	137.66	5.78	-939.74	647.62	606.69	40.93	15.823	
10,300.00	10,165.00	11,374.96	10,767.21	16.87	13.45	141.09	12.71	-939.45	624.70	583.79	40.91	15.269	
10,325.00	10,188.52	11,366.86	10,767.26	16.87	13.42	143.71	20.80	-939.08	602.29	561.41	40.88	14.732	
10,350.00	10,211.58	11,357.61	10,767.32	16.87	13.40	145.72	30.03	-938.64	580.47	539.63	40.84	14.212	
10,375.00	10,234.10	11,347.25	10,767.39	16.87	13.36	147.25	40.38	-938.11	559.30	518.51	40.79	13.712	
10,400.00	10,256.01	11,335.81	10,767.47	16.87	13.33	148.40	51.80	-937.48	538.86	498.14	40.72	13.234	
10,425.00	10,277.27	11,323.32	10,767.56	16.87	13.29	149.25	64.27	-936.74	519.21	478.58	40.63	12.779	
10,450.00	10,297.81	11,309.82	10,767.65	16.87	13.25	149.83	77.75	-935.88	500.43	459.90	40.53	12.348	
10,475.00	10,317.58	11,295.34	10,767.74	16.88	13.21	150.20	92.19	-934.88	482.58	442.18	40.41	11.943	
10,500.00	10,336.52	11,279.94	10,767.85	16.88	13.17	150.39	107.55	-933.75	465.74	425.46	40.27	11.565	
10,525.00	10,354.58	11,263.65	10,767.96	16.88	13.13	150.41	123.78	-932.45	449.94	409.83	40.11	11.216	
10,550.00	10,371.71	11,246.53	10,768.08	16.89	13.08	150.29	140.84	-931.00	435.27	395.33	39.94	10.898	
10,575.00	10,387.87	11,228.63	10,768.20	16.90	13.04	150.03	158.66	-929.36	421.76	382.01	39.74	10.612	
10,600.00	10,403.00	11,210.01	10,768.32	16.91	12.99	149.67	177.20	-927.54	409.46	369.94	39.53	10.359	
10,625.00	10,417.07	11,190.71	10,768.45	16.93	12.95	149.20	196.39	-925.53	398.43	359.13	39.30	10.138	
10,650.00	10,430.04	11,170.80	10,768.59	16.94	12.90	148.63	216.18	-923.32	388.68	349.62	39.06	9.952	
10,675.00	10,441.88	11,150.33	10,768.73	16.97	12.86	147.99	236.50	-920.91	380.25	341.45	38.80	9.800	
10,700.00	10,452.55	11,129.38	10,768.87	16.99	12.82	147.28	257.29	-918.29	373.15	334.62	38.53	9.684	
10,725.00	10,462.01	11,105.41	10,769.03	17.02	12.77	146.37	281.05	-915.10	367.41	329.16	38.25	9.606	
10,750.00	10,470.26	11,065.32	10,767.91	17.06	12.69	144.53	320.71	-909.49	362.40	324.55	37.85	9.575	
10,775.00	10,477.26	11,021.60	10,763.51	17.10	12.61	142.30	363.74	-903.12	357.28	319.96	37.32	9.573 SF	
10,800.00	10,482.99	10,979.73	10,756.21	17.14	12.54	140.01	404.47	-896.82	352.13	315.42	36.71	9.593	
10,825.00	10,487.44	10,939.62	10,746.42	17.19	12.48	137.66	442.86	-890.62	347.06	311.03	36.03	9.632	
10,850.00	10,490.60	10,901.16	10,734.51	17.24	12.41	135.26	478.92	-884.57	342.15	306.83	35.32	9.687	
10,875.00	10,492.46	10,864.23	10,720.80	17.29	12.36	132.83	512.70	-878.67	337.49	302.90	34.59	9.758	
10,894.59	10,493.00	10,836.27	10,708.98	17.33	12.32	130.91	537.62	-874.17	334.05	300.04	34.01	9.823	
10,900.00	10,493.04	10,828.72	10,705.57	17.34	12.30	130.29	544.25	-872.95	333.12	299.27	33.85	9.841	
11,000.00	10,493.75	10,708.07	10,639.68	17.60	12.14	118.04	643.15	-853.43	314.50	283.37	31.14	10.100	
11,100.00	10,494.46	10,619.17	10,578.46	17.89	12.05	106.16	705.92	-839.33	301.89	272.49	29.40	10.267	
11,131.64	10,494.69	10,596.34	10,561.20	18.00	12.03	102.77	720.43	-835.80	300.96	271.82	29.13	10.330 CC, ES	
11,200.00	10,495.17	10,553.88	10,527.58	18.22	12.00	96.21	745.55	-829.36	305.74	276.78	28.97	10.555	
11,300.00	10,495.89	10,505.05	10,486.70	18.57	11.96	88.45	771.25	-822.21	330.96	301.58	29.38	11.264	
11,400.00	10,496.60	10,467.66	10,453.97	18.96	11.94	82.54	788.52	-816.94	376.11	346.19	29.92	12.570	
11,500.00	10,497.31	10,438.34	10,427.54	19.37	11.93	78.02	800.54	-812.95	436.55	406.29	30.26	14.426	
11,600.00	10,498.02	10,414.85	10,405.92	19.81	11.92	74.51	809.19	-809.85	507.64	477.24	30.40	16.698	
11,700.00	10,498.74	10,400.00	10,392.07	20.28	11.91	72.35	814.20	-807.94	586.02	555.66	30.37	19.299	
11,800.00	10,499.45	10,379.74	10,372.96	20.77	11.91	69.50	820.45	-805.40	669.33	638.93	30.39	22.023	
11,900.00	10,500.16	10,366.32	10,360.19	21.28	11.90	67.67	824.22	-803.76	756.16	725.83	30.34	24.925	
12,000.00	10,500.87	10,350.00	10,344.54	21.81	11.90	65.51	828.40	-801.80	845.56	815.23	30.33	27.876	
12,039.59	10,501.15	10,350.00	10,344.54	22.02	11.90	65.51	828.40	-801.80	881.47	851.20	30.27	29.124	
12,100.00	10,501.58	10,350.00	10,344.54	22.36	11.90	66.59	828.40	-801.80	936.58	906.41	30.18	31.037	

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design:		TATER SALAD & MOMBA FEDERAL - MOMBA FEDERAL COM 903H - OWB - PWP2											Offset Site Error:		0.00 usft	
Survey Program:		0-Standard Keeper 104, 10195-r.5 MWD+IFR1+FDIR											Offset Well Error:		3.00 usft	
Reference		Offset		Semi Major Axis					Rule Assigned:							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning			
12,136.22	10,501.84	10,350.00	10,344.54	22.55	11.90	67.23	828.40	-801.80	969.72	939.60	30.13	32.189				

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - TATER SALAD FEDERAL COM 701H - OWB - PWP2													Offset Site Error: 0.00 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR, 2000-r.5 MWD+IFR1, 9199-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
0.00	0.00	1.00	0.00	0.00	0.01	78.34	41.20	199.70	203.91				
100.00	100.00	101.00	100.00	0.77	0.77	78.34	41.20	199.70	203.91	201.91	2.00	102.063	
200.00	200.00	201.00	200.00	1.44	1.44	78.34	41.20	199.70	203.91	200.59	3.32	61.492	
300.00	300.00	301.00	300.00	1.88	1.89	78.34	41.20	199.70	203.91	199.71	4.20	48.561	
400.00	400.00	401.00	400.00	2.25	2.25	78.34	41.20	199.70	203.91	198.99	4.92	41.486	
500.00	500.00	501.00	500.00	2.56	2.56	78.34	41.20	199.70	203.91	198.37	5.54	36.834	
600.00	600.00	601.00	600.00	2.84	2.85	78.34	41.20	199.70	203.91	197.81	6.09	33.467	
700.00	700.00	701.00	700.00	3.10	3.11	78.34	41.20	199.70	203.91	197.30	6.60	30.878	
800.00	800.00	801.00	800.00	3.34	3.35	78.34	41.20	199.70	203.91	196.83	7.08	28.805	
900.00	900.00	901.00	900.00	3.57	3.57	78.34	41.20	199.70	203.91	196.38	7.53	27.094	
1,000.00	1,000.00	1,001.00	1,000.00	3.79	3.79	78.34	41.20	199.70	203.91	195.96	7.95	25.650	
1,100.00	1,100.00	1,101.00	1,100.00	3.99	3.99	78.34	41.20	199.70	203.91	195.55	8.35	24.409	
1,200.00	1,200.00	1,201.00	1,200.00	4.19	4.19	78.34	41.20	199.70	203.91	195.16	8.74	23.327	
1,300.00	1,300.00	1,301.00	1,300.00	4.38	4.38	78.34	41.20	199.70	203.91	194.79	9.11	22.372	
1,400.00	1,400.00	1,401.00	1,400.00	4.56	4.56	78.34	41.20	199.70	203.91	194.43	9.48	21.520	
1,500.00	1,500.00	1,501.00	1,500.00	4.74	4.74	78.34	41.20	199.70	203.91	194.08	9.82	20.755	
1,600.00	1,600.00	1,601.00	1,600.00	4.91	4.91	78.34	41.20	199.70	203.91	193.74	10.16	20.061	
1,700.00	1,700.00	1,701.00	1,700.00	5.08	5.08	78.34	41.20	199.70	203.91	193.41	10.49	19.429	
1,800.00	1,800.00	1,801.00	1,800.00	5.24	5.24	78.34	41.20	199.70	203.91	193.09	10.82	18.850	
1,900.00	1,900.00	1,901.00	1,900.00	5.40	5.40	78.34	41.20	199.70	203.91	192.77	11.13	18.316	
1,966.33	1,966.33	1,967.33	1,966.33	5.50	5.50	78.34	41.20	199.70	203.91	192.57	11.34	17.986 CC	
2,000.00	2,000.00	2,000.00	1,999.00	5.56	5.56	78.34	41.20	199.70	203.91	192.47	11.44	17.825 ES	
2,100.00	2,099.98	2,094.18	2,093.17	5.78	5.77	168.43	41.49	201.22	207.28	195.40	11.87	17.459 SF	
2,200.00	2,199.84	2,186.81	2,185.68	6.00	5.98	168.66	42.35	205.68	217.30	205.02	12.27	17.703	
2,300.00	2,299.45	2,278.21	2,276.77	6.21	6.20	169.00	43.76	212.95	233.90	221.22	12.68	18.453	
2,400.00	2,398.70	2,367.81	2,365.80	6.42	6.44	169.39	45.67	222.85	256.97	243.90	13.08	19.653	
2,500.00	2,497.47	2,455.09	2,452.18	6.62	6.68	169.78	48.03	235.12	286.35	272.88	13.47	21.252	
2,600.00	2,595.62	2,539.57	2,535.39	6.83	6.89	170.16	50.80	249.45	321.84	308.00	13.84	23.255	
2,700.00	2,693.06	2,626.67	2,620.77	7.03	7.09	170.51	54.04	266.28	362.79	348.59	14.20	25.547	
2,750.00	2,741.46	2,671.65	2,664.86	7.08	7.21	170.69	55.74	275.09	384.56	370.19	14.37	26.759	
2,800.00	2,789.76	2,716.44	2,708.75	7.12	7.33	170.94	57.43	283.86	406.73	392.19	14.54	27.979	
2,900.00	2,886.35	2,806.03	2,796.54	7.26	7.58	171.35	60.82	301.40	451.07	436.15	14.92	30.229	
3,000.00	2,982.94	2,895.62	2,884.33	7.41	7.84	171.69	64.20	318.94	495.43	480.11	15.33	32.323	
3,100.00	3,079.54	2,985.20	2,972.11	7.55	8.12	171.97	67.58	336.47	539.81	524.05	15.75	34.268	
3,200.00	3,176.13	3,074.79	3,059.90	7.71	8.41	172.21	70.97	354.01	584.19	568.00	16.19	36.073	
3,300.00	3,272.72	3,164.38	3,147.69	7.86	8.71	172.41	74.35	371.55	628.58	611.93	16.65	37.748	
3,400.00	3,369.31	3,253.96	3,235.48	8.02	9.02	172.59	77.73	389.09	672.97	655.85	17.12	39.301	
3,500.00	3,465.91	3,343.55	3,323.27	8.19	9.34	172.75	81.12	406.63	717.37	699.77	17.61	40.741	
3,600.00	3,562.50	3,433.13	3,411.05	8.35	9.66	172.89	84.50	424.16	761.78	743.67	18.11	42.075	
3,700.00	3,659.09	3,522.72	3,498.84	8.52	10.00	173.01	87.88	441.70	806.19	787.57	18.61	43.312	
3,800.00	3,755.68	3,612.31	3,586.63	8.70	10.34	173.12	91.26	459.24	850.60	831.46	19.13	44.459	
3,900.00	3,852.28	3,701.89	3,674.42	8.87	10.68	173.22	94.65	476.78	895.01	875.35	19.66	45.524	
4,000.00	3,948.87	3,791.48	3,762.21	9.05	11.03	173.31	98.03	494.32	939.42	919.22	20.20	46.512	
4,100.00	4,045.46	3,881.07	3,849.99	9.23	11.39	173.39	101.41	511.85	983.84	963.09	20.74	47.430	

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - TATER SALAD FEDERAL COM 702H - OWB - PWP2													Offset Site Error: 0.00 usft	
Survey Program: Reference				0-r.5 MWD+IFR1+SAG+FDIR, 2000-r.5 MWD+IFR1, 9323-r.5 MWD+IFR1+SAG+FDIR				Rule Assigned:				Offset Well Error: 0.00 usft		
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	Warning	
0.00	0.00	1.00	0.00	0.00	0.01	83.94	21.20	199.80	200.92					
100.00	100.00	101.00	100.00	0.77	0.77	83.94	21.20	199.80	200.92	198.92	2.00	100.569		
200.00	200.00	201.00	200.00	1.44	1.44	83.94	21.20	199.80	200.92	197.61	3.32	60.592		
300.00	300.00	301.00	300.00	1.88	1.89	83.94	21.20	199.80	200.92	196.72	4.20	47.850		
400.00	400.00	401.00	400.00	2.25	2.25	83.94	21.20	199.80	200.92	196.01	4.92	40.879		
500.00	500.00	501.00	500.00	2.56	2.56	83.94	21.20	199.80	200.92	195.39	5.54	36.295		
600.00	600.00	601.00	600.00	2.84	2.85	83.94	21.20	199.80	200.92	194.83	6.09	32.977		
700.00	700.00	701.00	700.00	3.10	3.11	83.94	21.20	199.80	200.92	194.32	6.60	30.426		
800.00	800.00	801.00	800.00	3.34	3.35	83.94	21.20	199.80	200.92	193.84	7.08	28.383		
900.00	900.00	901.00	900.00	3.57	3.57	83.94	21.20	199.80	200.92	193.40	7.53	26.698		
1,000.00	1,000.00	1,001.00	1,000.00	3.79	3.79	83.94	21.20	199.80	200.92	192.97	7.95	25.275		
1,100.00	1,100.00	1,101.00	1,100.00	3.99	3.99	83.94	21.20	199.80	200.92	192.57	8.35	24.052		
1,200.00	1,200.00	1,201.00	1,200.00	4.19	4.19	83.94	21.20	199.80	200.92	192.18	8.74	22.985		
1,300.00	1,300.00	1,301.00	1,300.00	4.38	4.38	83.94	21.20	199.80	200.92	191.81	9.11	22.044		
1,400.00	1,400.00	1,401.00	1,400.00	4.56	4.56	83.94	21.20	199.80	200.92	191.45	9.48	21.205		
1,500.00	1,500.00	1,501.00	1,500.00	4.74	4.74	83.94	21.20	199.80	200.92	191.10	9.82	20.451		
1,600.00	1,600.00	1,601.00	1,600.00	4.91	4.91	83.94	21.20	199.80	200.92	190.76	10.16	19.768		
1,700.00	1,700.00	1,701.00	1,700.00	5.08	5.08	83.94	21.20	199.80	200.92	190.43	10.49	19.145		
1,800.00	1,800.00	1,801.00	1,800.00	5.24	5.24	83.94	21.20	199.80	200.92	190.10	10.82	18.574		
1,900.00	1,900.00	1,901.00	1,900.00	5.40	5.40	83.94	21.20	199.80	200.92	189.79	11.13	18.048		
2,000.00	2,000.00	2,001.00	2,000.00	5.56	5.56	83.94	21.20	199.80	200.92	189.48	11.44	17.562 CC, ES		
2,100.00	2,099.98	2,100.98	2,099.98	5.78	5.70	173.99	21.20	199.80	202.66	190.85	11.81	17.166		
2,200.00	2,199.84	2,200.85	2,199.85	6.00	5.83	174.13	21.20	199.80	207.86	195.72	12.14	17.118 SF		
2,300.00	2,299.45	2,302.60	2,301.58	6.21	6.04	173.89	22.90	199.11	216.03	203.55	12.48	17.306		
2,400.00	2,398.70	2,404.04	2,402.87	6.42	6.27	172.87	27.93	197.08	226.72	213.91	12.82	17.689		
2,500.00	2,497.47	2,504.96	2,503.38	6.62	6.50	171.22	36.23	193.72	240.07	226.93	13.14	18.269		
2,600.00	2,595.62	2,604.13	2,601.86	6.83	6.63	169.23	47.12	189.32	256.37	242.97	13.40	19.136		
2,700.00	2,693.06	2,701.87	2,698.86	7.03	6.82	167.55	58.16	184.85	276.21	262.49	13.71	20.141		
2,750.00	2,741.46	2,750.48	2,747.12	7.08	6.93	166.84	63.66	182.63	287.44	273.62	13.82	20.805		
2,800.00	2,789.76	2,799.01	2,795.28	7.12	7.04	166.25	69.14	180.41	299.12	285.21	13.91	21.500		
2,900.00	2,886.35	2,896.07	2,891.61	7.26	7.27	165.20	80.11	175.98	322.57	308.40	14.17	22.772		
3,000.00	2,982.94	2,992.54	2,987.44	7.41	7.52	164.39	90.50	171.77	346.17	331.74	14.43	23.990		
3,100.00	3,079.54	3,088.92	3,083.34	7.55	7.77	163.94	99.41	168.17	370.00	355.31	14.69	25.182		
3,200.00	3,176.13	3,185.28	3,179.35	7.71	8.03	163.78	106.82	165.18	394.03	379.07	14.96	26.340		
3,300.00	3,272.72	3,281.54	3,275.41	7.86	8.28	163.87	112.72	162.79	418.24	403.01	15.23	27.463		
3,400.00	3,369.31	3,377.68	3,371.43	8.02	8.52	164.16	117.13	161.01	442.64	427.14	15.50	28.552		
3,500.00	3,465.91	3,473.62	3,467.32	8.19	8.76	164.63	120.03	159.83	467.25	451.47	15.78	29.611		
3,600.00	3,562.50	3,569.32	3,563.00	8.35	8.96	165.23	121.45	159.26	492.10	476.04	16.06	30.644		
3,700.00	3,659.09	3,665.41	3,659.09	8.52	9.09	165.94	121.60	159.20	517.19	500.85	16.34	31.652		
3,800.00	3,755.68	3,762.00	3,755.68	8.70	9.18	166.60	121.60	159.20	542.38	525.75	16.63	32.615		
3,900.00	3,852.28	3,858.59	3,852.28	8.87	9.27	167.21	121.60	159.20	567.63	550.72	16.91	33.558		
4,000.00	3,948.87	3,955.19	3,948.87	9.05	9.36	167.76	121.60	159.20	592.94	575.74	17.20	34.470		
4,100.00	4,045.46	4,051.78	4,045.46	9.23	9.45	168.27	121.60	159.20	618.30	600.81	17.49	35.352		
4,200.00	4,142.05	4,148.37	4,142.05	9.42	9.54	168.74	121.60	159.20	643.69	625.91	17.78	36.203		
4,300.00	4,238.65	4,244.96	4,238.65	9.60	9.62	169.17	121.60	159.20	669.13	651.06	18.07	37.027		
4,400.00	4,335.24	4,341.56	4,335.24	9.79	9.71	169.57	121.60	159.20	694.59	676.23	18.36	37.822		
4,500.00	4,431.83	4,438.15	4,431.83	9.98	9.80	169.94	121.60	159.20	720.09	701.43	18.66	38.592		
4,600.00	4,528.42	4,534.74	4,528.42	10.18	9.89	170.29	121.60	159.20	745.61	726.66	18.96	39.336		
4,700.00	4,625.02	4,631.33	4,625.02	10.37	9.97	170.61	121.60	159.20	771.16	751.91	19.25	40.055		
4,800.00	4,721.61	4,727.93	4,721.61	10.57	10.06	170.92	121.60	159.20	796.73	777.18	19.55	40.751		
4,900.00	4,818.20	4,824.52	4,818.20	10.77	10.15	171.20	121.60	159.20	822.32	802.47	19.85	41.424		

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design:	TATER SALAD & MOMBA FEDERAL - TATER SALAD FEDERAL COM 702H - OWB - PWP2											Offset Site Error:	0.00 usft
Survey Program:	0-r.5 MWD+IFR1+SAG+FDIR, 2000-r.5 MWD+IFR1, 9323-r.5 MWD+IFR1+SAG+FDIR											Offset Well Error:	0.00 usft
Reference	Rule Assigned:												
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
5,000.00	4,914.80	4,921.11	4,914.80	10.97	10.23	171.47	121.60	159.20	847.92	827.77	20.15	42.075	
5,100.00	5,011.39	5,017.70	5,011.39	11.17	10.32	171.72	121.60	159.20	873.55	853.09	20.46	42.705	
5,200.00	5,107.98	5,114.30	5,107.98	11.37	10.40	171.96	121.60	159.20	899.18	878.42	20.76	43.315	
5,300.00	5,204.57	5,210.89	5,204.57	11.57	10.49	172.18	121.60	159.20	924.83	903.77	21.06	43.906	
5,400.00	5,301.17	5,307.48	5,301.17	11.78	10.58	172.39	121.60	159.20	950.50	929.13	21.37	44.478	
5,500.00	5,397.76	5,404.08	5,397.76	11.99	10.66	172.59	121.60	159.20	976.17	954.49	21.68	45.032	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - TATER SALAD FEDERAL COM 703H - OWB - PWP2														Offset Site Error:	0.00 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR, 2000-r.5 MWD+IFR1, 9180-r.5 MWD+IFR1+SAG+FDIR														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor			
0.00	0.00	1.00	0.00	0.00	0.01	89.66	1.20	199.90	199.90						
100.00	100.00	101.00	100.00	0.77	0.77	89.66	1.20	199.90	199.90	197.91	2.00	100.060			
200.00	200.00	201.00	200.00	1.44	1.44	89.66	1.20	199.90	199.90	196.59	3.32	60.285			
300.00	300.00	301.00	300.00	1.88	1.89	89.66	1.20	199.90	199.90	195.70	4.20	47.608			
400.00	400.00	401.00	400.00	2.25	2.25	89.66	1.20	199.90	199.90	194.99	4.92	40.672			
500.00	500.00	501.00	500.00	2.56	2.56	89.66	1.20	199.90	199.90	194.37	5.54	36.111			
600.00	600.00	601.00	600.00	2.84	2.85	89.66	1.20	199.90	199.90	193.81	6.09	32.810			
700.00	700.00	701.00	700.00	3.10	3.11	89.66	1.20	199.90	199.90	193.30	6.60	30.272			
800.00	800.00	801.00	800.00	3.34	3.35	89.66	1.20	199.90	199.90	192.82	7.08	28.240			
900.00	900.00	901.00	900.00	3.57	3.57	89.66	1.20	199.90	199.90	192.38	7.53	26.563			
1,000.00	1,000.00	1,001.00	1,000.00	3.79	3.79	89.66	1.20	199.90	199.90	191.95	7.95	25.147			
1,100.00	1,100.00	1,101.00	1,100.00	3.99	3.99	89.66	1.20	199.90	199.90	191.55	8.35	23.930			
1,200.00	1,200.00	1,201.00	1,200.00	4.19	4.19	89.66	1.20	199.90	199.90	191.16	8.74	22.869			
1,300.00	1,300.00	1,301.00	1,300.00	4.38	4.38	89.66	1.20	199.90	199.90	190.79	9.11	21.933			
1,400.00	1,400.00	1,401.00	1,400.00	4.56	4.56	89.66	1.20	199.90	199.90	190.43	9.48	21.098			
1,500.00	1,500.00	1,501.00	1,500.00	4.74	4.74	89.66	1.20	199.90	199.90	190.08	9.82	20.347			
1,600.00	1,600.00	1,601.00	1,600.00	4.91	4.91	89.66	1.20	199.90	199.90	189.74	10.16	19.668			
1,700.00	1,700.00	1,701.00	1,700.00	5.08	5.08	89.66	1.20	199.90	199.90	189.41	10.49	19.048			
1,800.00	1,800.00	1,801.00	1,800.00	5.24	5.24	89.66	1.20	199.90	199.90	189.09	10.82	18.480			
1,900.00	1,900.00	1,901.00	1,900.00	5.40	5.40	89.66	1.20	199.90	199.90	188.77	11.13	17.957			
2,000.00	2,000.00	2,001.07	2,000.07	5.56	5.56	89.66	1.20	199.90	199.90	188.46	11.44	17.471			
2,100.00	2,099.98	2,108.38	2,107.35	5.78	5.81	179.53	1.63	197.90	199.78	187.88	11.90	16.788			
2,200.00	2,199.84	2,215.66	2,214.46	6.00	6.05	179.16	2.91	191.97	199.51	187.18	12.33	16.181			
2,300.00	2,299.45	2,322.90	2,321.22	6.21	6.32	178.55	5.03	182.13	199.08	186.32	12.76	15.598			
2,400.00	2,398.70	2,430.08	2,427.47	6.42	6.61	177.69	8.00	168.40	198.54	185.34	13.20	15.036			
2,500.00	2,497.47	2,537.18	2,533.04	6.62	6.89	176.58	11.79	150.81	197.92	184.29	13.63	14.521			
2,553.75	2,550.31	2,593.40	2,588.18	6.73	7.01	175.91	14.10	140.10	197.62	183.80	13.83	14.291 CC, ES			
2,600.00	2,595.62	2,639.60	2,633.45	6.83	7.12	175.35	16.05	131.09	198.01	183.97	14.03	14.109			
2,700.00	2,693.06	2,739.46	2,731.31	7.03	7.39	174.22	20.24	111.63	201.43	186.94	14.50	13.895			
2,750.00	2,741.46	2,789.34	2,780.18	7.08	7.53	173.71	22.34	101.91	204.47	189.80	14.67	13.934			
2,800.00	2,789.76	2,839.19	2,829.03	7.12	7.67	173.24	24.44	92.20	207.96	193.11	14.85	14.000			
2,900.00	2,886.35	2,938.88	2,926.73	7.26	7.97	172.33	28.63	72.77	214.98	199.70	15.28	14.066			
3,000.00	2,982.94	3,038.58	3,024.42	7.41	8.29	171.48	32.82	53.34	222.05	206.32	15.73	14.117			
3,100.00	3,079.54	3,138.28	3,122.12	7.55	8.62	170.68	37.01	33.91	229.17	212.98	16.19	14.154			
3,200.00	3,176.13	3,237.98	3,219.82	7.71	8.96	169.93	41.20	14.48	236.32	219.66	16.67	14.180			
3,300.00	3,272.72	3,337.67	3,317.51	7.86	9.32	169.23	45.40	-4.95	243.52	226.37	17.15	14.197			
3,400.00	3,369.31	3,437.37	3,415.21	8.02	9.68	168.56	49.59	-24.37	250.75	233.10	17.65	14.206			
3,500.00	3,465.91	3,537.07	3,512.90	8.19	10.05	167.94	53.78	-43.80	258.01	239.85	18.16	14.209			
3,600.00	3,562.50	3,636.77	3,610.60	8.35	10.43	167.34	57.97	-63.23	265.30	246.62	18.67	14.206			
3,700.00	3,659.09	3,736.46	3,708.30	8.52	10.82	166.78	62.16	-82.66	272.62	253.42	19.20	14.200			
3,800.00	3,755.68	3,836.16	3,805.99	8.70	11.21	166.25	66.36	-102.09	279.96	260.23	19.73	14.190			
3,900.00	3,852.28	3,935.86	3,903.69	8.87	11.61	165.75	70.55	-121.52	287.32	267.06	20.27	14.178			
4,000.00	3,948.87	4,035.56	4,001.38	9.05	12.01	165.27	74.74	-140.95	294.71	273.90	20.81	14.164			
4,100.00	4,045.46	4,135.25	4,099.08	9.23	12.42	164.81	78.93	-160.38	302.11	280.76	21.35	14.148			
4,200.00	4,142.05	4,234.95	4,196.78	9.42	12.84	164.38	83.12	-179.80	309.53	287.63	21.91	14.131			
4,300.00	4,238.65	4,334.65	4,294.47	9.60	13.25	163.96	87.31	-199.23	316.97	294.51	22.46	14.112			
4,400.00	4,335.24	4,434.35	4,392.17	9.79	13.67	163.57	91.51	-218.66	324.43	301.41	23.02	14.094			
4,500.00	4,431.83	4,534.04	4,489.86	9.98	14.10	163.19	95.70	-238.09	331.90	308.32	23.58	14.075			
4,600.00	4,528.42	4,633.74	4,587.56	10.18	14.52	162.83	99.89	-257.52	339.38	315.23	24.15	14.055			
4,700.00	4,625.02	4,733.44	4,685.26	10.37	14.95	162.49	104.08	-276.95	346.88	322.16	24.71	14.036			
4,800.00	4,721.61	4,833.14	4,782.95	10.57	15.38	162.16	108.27	-296.38	354.39	329.10	25.28	14.016			

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - TATER SALAD FEDERAL COM 703H - OWB - PWP2													Offset Site Error:	0.00 usft
Survey Program:		0-r.5 MWD+IFR1+SAG+FDIR, 2000-r.5 MWD+IFR1, 9180-r.5 MWD+IFR1+SAG+FDIR							Rule Assigned:		Offset Well Error:	0.00 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
4,900.00	4,818.20	4,932.83	4,880.65	10.77	15.82	161.84	112.47	-315.80	361.91	336.05	25.86	13.997		
5,000.00	4,914.80	5,032.53	4,978.34	10.97	16.25	161.54	116.66	-335.23	369.44	343.00	26.43	13.977		
5,100.00	5,011.39	5,132.23	5,076.04	11.17	16.69	161.25	120.85	-354.66	376.98	349.97	27.01	13.958		
5,200.00	5,107.98	5,231.92	5,173.74	11.37	17.13	160.97	125.04	-374.09	384.52	356.94	27.59	13.939		
5,300.00	5,204.57	5,331.62	5,271.43	11.57	17.57	160.70	129.23	-393.52	392.08	363.92	28.17	13.921		
5,400.00	5,301.17	5,431.32	5,369.13	11.78	18.01	160.44	133.42	-412.95	399.65	370.90	28.75	13.903		
5,500.00	5,397.76	5,528.27	5,464.16	11.99	18.48	160.21	137.48	-431.73	407.33	377.97	29.37	13.871		
5,600.00	5,494.35	5,619.48	5,553.88	12.20	18.98	160.12	140.94	-447.76	416.60	386.54	30.05	13.863 SF		
5,700.00	5,590.94	5,710.30	5,643.58	12.41	19.38	160.19	143.93	-461.65	427.87	397.27	30.60	13.981		
5,800.00	5,687.54	5,800.00	5,732.48	12.62	19.75	160.40	146.45	-473.31	441.16	410.01	31.15	14.163		
5,885.37	5,770.00	5,877.33	5,809.33	12.79	20.06	160.68	148.26	-481.72	454.08	422.48	31.60	14.368		
5,900.00	5,784.13	5,890.43	5,822.36	12.81	20.11	160.75	148.54	-482.99	456.43	424.75	31.68	14.409		
6,000.00	5,881.01	5,979.71	5,911.31	13.04	20.45	161.21	150.16	-490.52	472.66	440.46	32.21	14.676		
6,100.00	5,978.31	6,068.59	6,000.01	13.25	20.77	161.71	151.34	-495.98	489.28	456.59	32.69	14.967		
6,200.00	6,075.99	6,157.04	6,088.38	13.45	21.05	162.25	152.08	-499.42	506.28	473.15	33.13	15.280		
6,300.00	6,174.03	6,245.05	6,176.38	13.65	21.24	162.81	152.39	-500.85	523.66	490.18	33.48	15.642		
6,400.00	6,272.40	6,341.07	6,272.40	13.85	21.29	163.40	152.40	-500.90	540.83	507.09	33.74	16.030		
6,500.00	6,371.07	6,439.74	6,371.07	14.04	21.32	163.92	152.40	-500.90	556.45	522.45	34.00	16.366		
6,600.00	6,470.01	6,538.67	6,470.01	14.23	21.36	164.36	152.40	-500.90	570.43	536.18	34.25	16.655		
6,700.00	6,569.18	6,637.85	6,569.18	14.41	21.40	164.74	152.40	-500.90	582.78	548.29	34.49	16.899		
6,800.00	6,668.57	6,737.23	6,668.57	14.59	21.44	165.05	152.40	-500.90	593.47	558.75	34.71	17.097		
6,900.00	6,768.13	6,836.80	6,768.13	14.76	21.48	165.30	152.40	-500.90	602.49	567.56	34.93	17.250		
7,000.00	6,867.84	6,936.51	6,867.84	14.93	21.51	165.50	152.40	-500.90	609.83	574.70	35.13	17.358		
7,100.00	6,967.67	7,036.33	6,967.67	15.09	21.55	165.65	152.40	-500.90	615.50	580.17	35.33	17.423		
7,200.00	7,067.58	7,136.25	7,067.58	15.24	21.59	165.75	152.40	-500.90	619.48	583.97	35.51	17.446		
7,300.00	7,167.55	7,236.22	7,167.55	15.38	21.63	165.81	152.40	-500.90	621.77	586.10	35.68	17.429		
7,385.37	7,252.92	7,321.59	7,252.92	15.44	21.66	75.83	152.40	-500.90	622.39	586.61	35.77	17.398		
7,400.00	7,267.55	7,336.22	7,267.55	15.45	21.67	75.83	152.40	-500.90	622.39	586.61	35.78	17.394		
7,500.00	7,367.55	7,436.22	7,367.55	15.51	21.71	75.83	152.40	-500.90	622.39	586.50	35.89	17.344		
7,600.00	7,467.55	7,536.22	7,467.55	15.56	21.75	75.83	152.40	-500.90	622.39	586.41	35.98	17.301		
7,700.00	7,567.55	7,636.22	7,567.55	15.61	21.79	75.83	152.40	-500.90	622.39	586.32	36.07	17.257		
7,800.00	7,667.55	7,736.22	7,667.55	15.65	21.83	75.83	152.40	-500.90	622.39	586.23	36.16	17.214		
7,900.00	7,767.55	7,836.22	7,767.55	15.70	21.87	75.83	152.40	-500.90	622.39	586.14	36.25	17.171		
8,000.00	7,867.55	7,936.22	7,867.55	15.75	21.91	75.83	152.40	-500.90	622.39	586.05	36.34	17.128		
8,100.00	7,967.55	8,036.22	7,967.55	15.80	21.95	75.83	152.40	-500.90	622.39	585.96	36.43	17.084		
8,200.00	8,067.55	8,136.22	8,067.55	15.85	21.99	75.83	152.40	-500.90	622.39	585.86	36.52	17.041		
8,300.00	8,167.55	8,236.22	8,167.55	15.90	22.04	75.83	152.40	-500.90	622.39	585.77	36.62	16.998		
8,400.00	8,267.55	8,336.22	8,267.55	15.95	22.08	75.83	152.40	-500.90	622.39	585.68	36.71	16.954		
8,500.00	8,367.55	8,436.22	8,367.55	16.00	22.12	75.83	152.40	-500.90	622.39	585.58	36.80	16.911		
8,600.00	8,467.55	8,536.22	8,467.55	16.05	22.16	75.83	152.40	-500.90	622.39	585.49	36.90	16.868		
8,700.00	8,567.55	8,636.22	8,567.55	16.10	22.21	75.83	152.40	-500.90	622.39	585.39	36.99	16.825		
8,800.00	8,667.55	8,736.22	8,667.55	16.15	22.25	75.83	152.40	-500.90	622.39	585.30	37.09	16.781		
8,900.00	8,767.55	8,836.22	8,767.55	16.21	22.29	75.83	152.40	-500.90	622.39	585.20	37.18	16.738		
9,000.00	8,867.55	8,936.22	8,867.55	16.26	22.33	75.83	152.40	-500.90	622.39	585.11	37.28	16.695		
9,100.00	8,967.55	9,036.22	8,967.55	16.31	22.38	75.83	152.40	-500.90	622.39	585.01	37.38	16.652		
9,200.00	9,067.55	9,136.22	9,067.55	16.36	22.42	75.83	152.40	-500.90	622.39	584.92	37.47	16.611		
9,300.00	9,167.55	9,225.00	9,156.27	16.41	22.43	75.64	154.50	-500.90	623.00	585.56	37.45	16.637		
9,400.00	9,267.55	9,296.26	9,226.46	16.47	22.44	74.58	166.43	-500.92	627.30	590.10	37.21	16.861		
9,500.00	9,367.55	9,364.72	9,291.50	16.52	22.45	72.73	187.61	-500.94	636.45	599.61	36.84	17.275		
9,600.00	9,467.55	9,425.00	9,345.75	16.57	22.45	70.49	213.79	-500.97	651.61	615.23	36.38	17.909		
9,700.00	9,567.55	9,475.00	9,387.96	16.63	22.46	68.26	240.55	-501.00	673.89	637.99	35.91	18.768		

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - TATER SALAD FEDERAL COM 703H - OWB - PWP2												Offset Site Error:	0.00 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR, 2000-r.5 MWD+IFR1, 9180-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
9,800.00	9,667.55	9,525.00	9,427.14	16.68	22.47	65.77	271.58	-501.04	703.93	668.46	35.47	19.844	
9,900.00	9,767.55	9,565.18	9,456.14	16.73	22.49	63.61	299.37	-501.07	741.98	706.83	35.15	21.107	
10,000.00	9,867.55	9,600.00	9,479.30	16.79	22.50	61.66	325.36	-501.10	787.71	752.74	34.98	22.522	
10,100.00	9,967.55	9,625.00	9,494.74	16.84	22.51	60.23	345.02	-501.12	840.51	805.55	34.96	24.039	
10,148.00	10,015.55	9,639.90	9,503.44	16.85	22.51	59.37	357.12	-501.14	868.13	833.45	34.68	25.034	
10,150.00	10,017.55	9,640.40	9,503.72	16.85	22.51	61.19	357.52	-501.14	869.31	834.63	34.68	25.067	
10,175.00	10,042.54	9,650.00	9,509.12	16.86	22.52	58.79	365.47	-501.15	883.98	849.28	34.70	25.476	
10,200.00	10,067.45	9,650.00	9,509.12	16.87	22.52	56.98	365.47	-501.15	898.44	863.69	34.76	25.848	
10,225.00	10,092.22	9,659.99	9,514.56	16.87	22.52	54.79	373.85	-501.16	912.66	877.87	34.79	26.232	
10,250.00	10,116.78	9,666.91	9,518.23	16.87	22.53	52.86	379.71	-501.16	926.60	891.76	34.85	26.589	
10,275.00	10,141.06	9,675.00	9,522.41	16.87	22.53	51.01	386.64	-501.17	940.23	905.32	34.91	26.933	
10,300.00	10,165.00	9,675.00	9,522.41	16.87	22.53	49.56	386.64	-501.17	953.55	918.54	35.01	27.236	
10,325.00	10,188.52	9,688.62	9,529.18	16.87	22.54	47.75	398.45	-501.19	966.38	931.31	35.07	27.558	
10,350.00	10,211.58	9,700.00	9,534.58	16.87	22.55	46.16	408.47	-501.20	978.85	943.71	35.14	27.858	
10,375.00	10,234.10	9,700.00	9,534.58	16.87	22.55	44.99	408.47	-501.20	990.84	955.58	35.26	28.104	

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - TATER SALAD FEDERAL COM 704H - OWB - PWP2													Offset Site Error: 0.00 usft	
Survey Program: Reference		0-r.5 MWD+IFR1+SAG+FDIR, 1500-r.5 MWD+IFR1, 9495-r.5 MWD+IFR1+SAG+FDIR						Rule Assigned:		Offset Well Error: 0.00 usft				
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		
0.00	0.00	1.00	0.00	0.00	0.01	95.34	-18.70	200.10	200.97					
100.00	100.00	101.00	100.00	0.77	0.77	95.34	-18.70	200.10	200.97	198.97	2.00	100.594		
200.00	200.00	201.00	200.00	1.44	1.44	95.34	-18.70	200.10	200.97	197.66	3.32	60.607		
300.00	300.00	301.00	300.00	1.88	1.89	95.34	-18.70	200.10	200.97	196.77	4.20	47.862		
400.00	400.00	401.00	400.00	2.25	2.25	95.34	-18.70	200.10	200.97	196.06	4.92	40.889		
500.00	500.00	501.00	500.00	2.56	2.56	95.34	-18.70	200.10	200.97	195.44	5.54	36.304		
600.00	600.00	601.00	600.00	2.84	2.85	95.34	-18.70	200.10	200.97	194.88	6.09	32.985		
700.00	700.00	701.00	700.00	3.10	3.11	95.34	-18.70	200.10	200.97	194.37	6.60	30.434		
800.00	800.00	801.00	800.00	3.34	3.35	95.34	-18.70	200.10	200.97	193.89	7.08	28.391		
900.00	900.00	901.00	900.00	3.57	3.57	95.34	-18.70	200.10	200.97	193.45	7.53	26.705		
1,000.00	1,000.00	1,001.00	1,000.00	3.79	3.79	95.34	-18.70	200.10	200.97	193.02	7.95	25.281		
1,100.00	1,100.00	1,101.00	1,100.00	3.99	3.99	95.34	-18.70	200.10	200.97	192.62	8.35	24.058		
1,200.00	1,200.00	1,201.00	1,200.00	4.19	4.19	95.34	-18.70	200.10	200.97	192.23	8.74	22.991		
1,300.00	1,300.00	1,301.00	1,300.00	4.38	4.38	95.34	-18.70	200.10	200.97	191.86	9.11	22.050		
1,400.00	1,400.00	1,401.00	1,400.00	4.56	4.56	95.34	-18.70	200.10	200.97	191.50	9.48	21.211		
1,500.00	1,500.00	1,501.07	1,500.07	4.74	4.74	95.34	-18.70	200.10	200.97	191.15	9.83	20.454		
1,600.00	1,600.00	1,608.06	1,607.03	4.91	5.02	95.54	-19.23	198.13	199.19	188.93	10.26	19.419		
1,700.00	1,700.00	1,714.75	1,713.55	5.08	5.30	96.17	-20.78	192.33	193.92	183.25	10.67	18.171		
1,800.00	1,800.00	1,820.85	1,819.17	5.24	5.60	97.28	-23.35	182.76	185.24	174.16	11.09	16.709		
1,900.00	1,900.00	1,926.07	1,923.50	5.40	5.92	99.01	-26.89	169.55	173.27	161.77	11.50	15.066		
2,000.00	2,000.00	2,030.14	2,026.12	5.56	6.25	101.59	-31.36	152.85	158.21	146.30	11.91	13.282		
2,100.00	2,099.98	2,133.18	2,127.04	5.78	6.60	-164.82	-36.74	132.78	142.06	129.69	12.37	11.484		
2,200.00	2,199.84	2,235.48	2,226.43	6.00	6.97	-159.97	-43.00	109.41	126.89	114.11	12.78	9.926		
2,300.00	2,299.45	2,337.03	2,324.17	6.21	7.33	-153.51	-50.12	82.82	113.27	100.15	13.12	8.636		
2,400.00	2,398.70	2,436.37	2,418.98	6.42	7.64	-145.51	-57.79	54.20	102.42	89.08	13.34	7.679		
2,500.00	2,497.47	2,536.71	2,514.70	6.62	7.96	-137.32	-64.95	24.95	95.94	82.41	13.53	7.092		
2,600.00	2,595.62	2,638.73	2,612.05	6.83	8.33	-130.79	-68.92	-5.30	91.12	77.36	13.77	6.619		
2,700.00	2,693.06	2,739.13	2,707.80	7.03	8.68	-126.37	-70.27	-35.45	87.29	73.25	14.04	6.218		
2,750.00	2,741.46	2,789.05	2,755.42	7.08	8.87	-124.75	-70.87	-50.45	86.27	72.10	14.17	6.087		
2,800.00	2,789.76	2,839.00	2,803.05	7.12	9.07	-123.33	-71.48	-65.46	85.56	71.24	14.32	5.977		
2,900.00	2,886.35	2,938.90	2,898.33	7.26	9.47	-120.41	-72.70	-95.48	84.30	69.64	14.66	5.750		
3,000.00	2,982.94	3,038.80	2,993.60	7.41	9.88	-117.41	-73.92	-125.49	83.27	68.26	15.01	5.548		
3,100.00	3,079.54	3,138.70	3,088.88	7.55	10.30	-114.34	-75.13	-155.51	82.47	67.11	15.36	5.368		
3,200.00	3,176.13	3,238.60	3,184.15	7.71	10.73	-111.23	-76.35	-185.53	81.91	66.19	15.72	5.210		
3,300.00	3,272.72	3,338.50	3,279.42	7.86	11.16	-108.08	-77.57	-215.54	81.60	65.50	16.09	5.070		
3,375.82	3,345.96	3,414.24	3,351.66	7.99	11.50	-105.68	-78.49	-238.30	81.53	65.14	16.39	4.975 CC		
3,400.00	3,369.31	3,438.39	3,374.70	8.02	11.61	-104.92	-78.79	-245.56	81.53	65.05	16.48	4.947		
3,500.00	3,465.91	3,538.29	3,469.97	8.19	12.05	-101.76	-80.00	-275.58	81.72	64.83	16.89	4.839		
3,600.00	3,562.50	3,638.19	3,565.25	8.35	12.51	-98.63	-81.22	-305.59	82.15	64.83	17.32	4.743 ES		
3,700.00	3,659.09	3,738.09	3,660.52	8.52	12.96	-95.53	-82.44	-335.61	82.83	65.04	17.78	4.658		
3,800.00	3,755.68	3,837.99	3,755.80	8.70	13.42	-92.50	-83.65	-365.63	83.74	65.47	18.27	4.582		
3,900.00	3,852.28	3,937.89	3,851.07	8.87	13.89	-89.54	-84.87	-395.64	84.88	66.08	18.80	4.515		
4,000.00	3,948.87	4,037.78	3,946.35	9.05	14.36	-86.66	-86.09	-425.66	86.24	66.89	19.36	4.455		
4,100.00	4,045.46	4,137.68	4,041.62	9.23	14.83	-83.88	-87.31	-455.68	87.82	67.87	19.95	4.402		
4,200.00	4,142.05	4,237.58	4,136.89	9.42	15.30	-81.21	-88.52	-485.69	89.59	69.02	20.57	4.355		
4,300.00	4,238.65	4,337.48	4,232.17	9.60	15.78	-78.64	-89.74	-515.71	91.55	70.32	21.23	4.313		
4,400.00	4,335.24	4,437.38	4,327.44	9.79	16.25	-76.19	-90.96	-545.73	93.69	71.78	21.91	4.276		
4,500.00	4,431.83	4,537.28	4,422.72	9.98	16.73	-73.85	-92.17	-575.74	95.99	73.37	22.62	4.244		
4,600.00	4,528.42	4,637.17	4,517.99	10.18	17.22	-71.62	-93.39	-605.76	98.44	75.10	23.35	4.216		
4,700.00	4,625.02	4,737.07	4,613.27	10.37	17.70	-69.50	-94.61	-635.78	101.04	76.94	24.10	4.193		
4,800.00	4,721.61	4,836.97	4,708.54	10.57	18.19	-67.50	-95.83	-665.79	103.76	78.90	24.86	4.174		

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - TATER SALAD FEDERAL COM 704H - OWB - PWP2												Offset Site Error:	0.00 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR, 1500-r.5 MWD+IFR1, 9495-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		No-Go		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)	Distance (usft)	Separation Factor	
4,900.00	4,818.20	4,936.87	4,803.81	10.77	18.67	-65.59	-97.04	-695.81	106.61	80.97	25.64	4.158	
5,000.00	4,914.80	5,036.77	4,899.09	10.97	19.16	-63.79	-98.26	-725.83	109.57	83.14	26.43	4.146	
5,100.00	5,011.39	5,136.67	4,994.36	11.17	19.65	-62.08	-99.48	-755.84	112.63	85.40	27.23	4.137	
5,200.00	5,107.98	5,236.57	5,089.64	11.37	20.14	-60.47	-100.69	-785.86	115.79	87.75	28.03	4.130	
5,300.00	5,204.57	5,336.46	5,184.91	11.57	20.63	-58.94	-101.91	-815.88	119.03	90.18	28.85	4.126	
5,400.00	5,301.17	5,436.36	5,280.19	11.78	21.13	-57.50	-103.13	-845.89	122.35	92.69	29.66	4.125	
5,500.00	5,397.76	5,536.26	5,375.46	11.99	21.62	-56.13	-104.35	-875.91	125.75	95.26	30.49	4.125	
5,600.00	5,494.35	5,636.16	5,470.74	12.20	22.12	-54.83	-105.56	-905.93	129.21	97.90	31.31	4.127	
5,700.00	5,590.94	5,736.06	5,566.01	12.41	22.61	-53.60	-106.78	-935.94	132.74	100.61	32.14	4.131	
5,800.00	5,687.54	5,835.96	5,661.28	12.62	23.11	-52.44	-108.00	-965.96	136.33	103.36	32.96	4.136	
5,885.37	5,770.00	5,921.24	5,742.62	12.79	23.53	-51.49	-109.04	-991.59	139.43	105.77	33.66	4.142	
5,900.00	5,784.13	5,935.85	5,756.56	12.81	23.61	-51.33	-109.21	-995.98	139.98	106.19	33.78	4.144	
6,000.00	5,881.01	6,035.69	5,851.78	13.04	24.10	-49.98	-110.43	-1,025.97	144.39	109.70	34.68	4.163	
6,100.00	5,978.31	6,135.43	5,946.89	13.25	24.60	-48.21	-111.65	-1,055.94	150.03	114.38	35.65	4.208	
6,200.00	6,075.99	6,235.02	6,041.87	13.45	25.10	-46.13	-112.86	-1,085.87	157.02	120.33	36.69	4.280	
6,300.00	6,174.03	6,337.19	6,139.53	13.65	25.60	-43.91	-114.08	-1,115.89	164.95	127.19	37.76	4.368	
6,400.00	6,272.40	6,441.48	6,240.17	13.85	26.13	-42.19	-115.18	-1,143.18	171.82	133.08	38.74	4.435	
6,500.00	6,371.07	6,546.21	6,342.18	14.04	26.65	-40.98	-116.14	-1,166.88	177.30	137.72	39.58	4.480	
6,600.00	6,470.01	6,651.27	6,445.30	14.23	27.15	-40.20	-116.96	-1,186.90	181.29	141.02	40.28	4.501	
6,700.00	6,569.18	6,756.55	6,549.30	14.41	27.63	-39.81	-117.62	-1,203.16	183.74	142.90	40.84	4.499	
6,800.00	6,668.57	6,861.92	6,653.94	14.59	28.08	-39.78	-118.12	-1,215.59	184.62	143.36	41.26	4.475	
6,900.00	6,768.13	6,967.29	6,758.94	14.76	28.49	-40.11	-118.47	-1,224.18	183.92	142.39	41.53	4.429	
7,000.00	6,867.84	7,072.53	6,864.07	14.93	28.85	-40.80	-118.66	-1,228.89	181.67	140.04	41.62	4.364	
7,100.00	6,967.67	7,176.13	6,967.67	15.09	29.00	-41.86	-118.70	-1,229.90	178.02	136.53	41.49	4.291	
7,200.00	7,067.58	7,276.05	7,067.58	15.24	29.02	-42.73	-118.70	-1,229.90	174.98	133.56	41.42	4.224	
7,300.00	7,167.55	7,376.02	7,167.55	15.38	29.05	-43.25	-118.70	-1,229.90	173.25	131.82	41.43	4.182	
7,385.37	7,252.92	7,461.39	7,252.92	15.44	29.07	-133.39	-118.70	-1,229.90	172.79	131.32	41.47	4.167	
7,400.00	7,267.55	7,476.01	7,267.55	15.45	29.07	-133.39	-118.70	-1,229.90	172.79	131.31	41.48	4.166	
7,500.00	7,367.55	7,576.01	7,367.55	15.51	29.10	-133.39	-118.70	-1,229.90	172.79	131.22	41.57	4.157	
7,600.00	7,467.55	7,676.01	7,467.55	15.56	29.12	-133.39	-118.70	-1,229.90	172.79	131.14	41.64	4.149	
7,700.00	7,567.55	7,776.01	7,567.55	15.61	29.15	-133.39	-118.70	-1,229.90	172.79	131.06	41.72	4.141	
7,800.00	7,667.55	7,876.01	7,667.55	15.65	29.17	-133.39	-118.70	-1,229.90	172.79	130.99	41.80	4.134	
7,900.00	7,767.55	7,976.01	7,767.55	15.70	29.20	-133.39	-118.70	-1,229.90	172.79	130.91	41.88	4.126	
8,000.00	7,867.55	8,076.01	7,867.55	15.75	29.22	-133.39	-118.70	-1,229.90	172.79	130.83	41.96	4.118	
8,100.00	7,967.55	8,176.01	7,967.55	15.80	29.25	-133.39	-118.70	-1,229.90	172.79	130.75	42.04	4.110	
8,200.00	8,067.55	8,276.01	8,067.55	15.85	29.28	-133.39	-118.70	-1,229.90	172.79	130.67	42.12	4.103	
8,300.00	8,167.55	8,376.01	8,167.55	15.90	29.30	-133.39	-118.70	-1,229.90	172.79	130.59	42.20	4.095	
8,400.00	8,267.55	8,476.01	8,267.55	15.95	29.33	-133.39	-118.70	-1,229.90	172.79	130.51	42.28	4.087	
8,500.00	8,367.55	8,576.01	8,367.55	16.00	29.36	-133.39	-118.70	-1,229.90	172.79	130.43	42.36	4.079	
8,600.00	8,467.55	8,676.01	8,467.55	16.05	29.38	-133.39	-118.70	-1,229.90	172.79	130.34	42.44	4.071	
8,700.00	8,567.55	8,776.01	8,567.55	16.10	29.41	-133.39	-118.70	-1,229.90	172.79	130.26	42.52	4.063	
8,800.00	8,667.55	8,876.01	8,667.55	16.15	29.44	-133.39	-118.70	-1,229.90	172.79	130.18	42.61	4.055	
8,900.00	8,767.55	8,976.01	8,767.55	16.21	29.47	-133.39	-118.70	-1,229.90	172.79	130.10	42.69	4.048	
9,000.00	8,867.55	9,076.01	8,867.55	16.26	29.50	-133.39	-118.70	-1,229.90	172.79	130.01	42.77	4.040	
9,100.00	8,967.55	9,176.01	8,967.55	16.31	29.52	-133.39	-118.70	-1,229.90	172.79	129.93	42.86	4.032	
9,200.00	9,067.55	9,276.01	9,067.55	16.36	29.55	-133.39	-118.70	-1,229.90	172.79	129.84	42.94	4.024	
9,300.00	9,167.55	9,376.01	9,167.55	16.41	29.58	-133.39	-118.70	-1,229.90	172.79	129.76	43.03	4.016	
9,400.00	9,267.55	9,476.01	9,267.55	16.47	29.61	-133.39	-118.70	-1,229.90	172.79	129.68	43.11	4.008	
9,500.00	9,367.55	9,602.21	9,392.79	16.52	29.62	-130.29	-106.27	-1,229.68	166.26	123.76	42.50	3.912	
9,600.00	9,467.55	9,719.40	9,502.55	16.57	29.63	-117.91	-66.03	-1,228.98	145.33	101.80	43.53	3.339	
9,700.00	9,567.55	9,813.32	9,581.36	16.63	29.64	-97.02	-15.25	-1,228.09	125.45	78.72	46.73	2.684 Normal Operations	

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - TATER SALAD FEDERAL COM 704H - OWB - PWP2												Offset Site Error:	0.00 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR, 1500-r.5 MWD+IFR1, 9495-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
9,734.00	9,601.55	9,839.98	9,601.78	16.64	29.64	-89.12	1.90	-1,227.79	123.47	75.70	47.77	2.585	Normal Operations, SF
9,800.00	9,667.55	9,885.05	9,634.00	16.68	29.65	-74.80	33.39	-1,227.25	131.70	83.42	48.28	2.728	Normal Operations
9,900.00	9,767.55	9,939.36	9,668.67	16.73	29.67	-58.41	75.15	-1,226.52	174.22	128.24	45.98	3.789	
10,000.00	9,867.55	9,980.91	9,691.86	16.79	29.68	-47.97	109.60	-1,225.92	240.12	196.41	43.72	5.493	
10,100.00	9,967.55	10,013.27	9,707.80	16.84	29.70	-41.32	137.75	-1,225.42	317.98	275.53	42.44	7.492	
10,148.00	10,015.55	10,025.00	9,713.10	16.85	29.70	-39.21	148.21	-1,225.24	357.86	315.52	42.34	8.452	
10,150.00	10,017.55	10,025.00	9,713.10	16.85	29.70	-36.98	148.21	-1,225.24	359.55	317.21	42.34	8.493	
10,175.00	10,042.54	10,033.45	9,716.75	16.86	29.71	-33.02	155.83	-1,225.11	380.47	338.30	42.17	9.023	
10,200.00	10,067.45	10,040.37	9,719.65	16.87	29.71	-29.85	162.11	-1,225.00	401.09	359.03	42.05	9.538	
10,225.00	10,092.22	10,050.00	9,723.53	16.87	29.72	-26.88	170.93	-1,224.84	421.35	379.42	41.94	10.047	
10,250.00	10,116.78	10,050.00	9,723.53	16.87	29.72	-25.15	170.93	-1,224.84	441.25	399.31	41.94	10.520	
10,275.00	10,141.06	10,062.67	9,728.35	16.87	29.72	-22.68	182.63	-1,224.64	460.61	418.76	41.85	11.006	
10,300.00	10,165.00	10,075.00	9,732.75	16.87	29.73	-20.63	194.15	-1,224.44	479.60	437.82	41.78	11.479	
10,325.00	10,188.52	10,075.00	9,732.75	16.87	29.73	-19.51	194.15	-1,224.44	498.04	456.21	41.83	11.906	
10,350.00	10,211.58	10,086.82	9,736.69	16.87	29.74	-17.96	205.29	-1,224.24	515.94	474.14	41.80	12.344	
10,375.00	10,234.10	10,100.00	9,740.75	16.87	29.75	-16.59	217.83	-1,224.03	533.36	491.59	41.77	12.770	
10,400.00	10,256.01	10,100.00	9,740.75	16.87	29.75	-15.83	217.83	-1,224.03	550.15	508.31	41.84	13.149	
10,425.00	10,277.27	10,112.38	9,744.25	16.87	29.75	-14.78	229.71	-1,223.82	566.34	524.50	41.83	13.538	
10,450.00	10,297.81	10,125.00	9,747.50	16.87	29.76	-13.85	241.90	-1,223.61	581.97	540.14	41.83	13.911	
10,475.00	10,317.58	10,125.00	9,747.50	16.88	29.76	-13.32	241.90	-1,223.61	596.97	555.05	41.92	14.241	
10,500.00	10,336.52	10,139.03	9,750.73	16.88	29.77	-12.55	255.55	-1,223.37	611.26	569.34	41.92	14.580	
10,525.00	10,354.58	10,150.00	9,752.98	16.88	29.78	-11.93	266.29	-1,223.18	624.94	582.99	41.95	14.897	
10,550.00	10,371.71	10,157.27	9,754.33	16.89	29.79	-11.44	273.42	-1,223.06	637.94	595.94	42.00	15.189	
10,575.00	10,387.87	10,166.51	9,755.89	16.90	29.80	-10.97	282.53	-1,222.90	650.26	608.22	42.04	15.467	
10,600.00	10,403.00	10,175.00	9,757.17	16.91	29.80	-10.56	290.92	-1,222.75	661.89	619.80	42.09	15.725	
10,625.00	10,417.07	10,185.20	9,758.51	16.93	29.81	-10.17	301.03	-1,222.57	672.80	630.67	42.13	15.969	
10,650.00	10,430.04	10,200.00	9,760.07	16.94	29.83	-9.77	315.75	-1,222.32	683.05	640.90	42.15	16.204	
10,675.00	10,441.88	10,200.00	9,760.07	16.97	29.83	-9.56	315.75	-1,222.32	692.50	650.26	42.24	16.396	
10,700.00	10,452.55	10,213.65	9,761.10	16.99	29.84	-9.25	329.36	-1,222.08	701.20	658.94	42.27	16.590	
10,725.00	10,462.01	10,225.00	9,761.67	17.02	29.85	-8.98	340.69	-1,221.88	709.19	666.89	42.30	16.764	
10,750.00	10,470.26	10,232.85	9,761.90	17.06	29.86	-8.78	348.53	-1,221.74	716.42	674.07	42.35	16.915	
10,775.00	10,477.26	10,245.03	9,762.02	17.10	29.87	-8.57	360.72	-1,221.53	722.89	680.50	42.39	17.054	
10,800.00	10,482.99	10,269.36	9,762.13	17.14	29.90	-8.30	385.04	-1,221.11	728.27	685.89	42.38	17.182	
10,825.00	10,487.44	10,293.94	9,762.24	17.19	29.93	-8.08	409.62	-1,220.68	732.38	690.00	42.38	17.280	
10,850.00	10,490.60	10,318.72	9,762.36	17.24	29.96	-7.90	434.39	-1,220.25	735.22	692.83	42.39	17.345	
10,875.00	10,492.46	10,343.62	9,762.47	17.29	30.00	-7.76	459.29	-1,219.81	736.77	694.38	42.39	17.379	
10,894.59	10,493.00	10,363.18	9,762.56	17.33	30.02	-7.67	478.85	-1,219.47	737.08	694.68	42.40	17.385	
10,900.00	10,493.04	10,368.58	9,762.59	17.34	30.03	-7.65	484.24	-1,219.38	737.05	694.66	42.40	17.384	
11,000.00	10,493.75	10,468.44	9,763.05	17.60	30.19	-7.24	584.09	-1,217.63	736.63	694.19	42.43	17.359	
11,100.00	10,494.46	10,568.31	9,763.50	17.89	30.37	-6.83	683.94	-1,215.89	736.23	693.74	42.49	17.327	
11,200.00	10,495.17	10,668.17	9,763.96	18.22	30.57	-6.43	783.78	-1,214.15	735.88	693.32	42.56	17.289	
11,300.00	10,495.89	10,768.03	9,764.42	18.57	30.80	-6.02	883.63	-1,212.40	735.56	692.91	42.66	17.243	
11,400.00	10,496.60	10,867.89	9,764.88	18.96	31.05	-5.61	983.48	-1,210.66	735.28	692.51	42.77	17.192	
11,500.00	10,497.31	10,967.76	9,765.34	19.37	31.32	-5.21	1,083.32	-1,208.92	735.04	692.14	42.90	17.133	
11,600.00	10,498.02	11,067.62	9,765.80	19.81	31.60	-4.80	1,183.17	-1,207.18	734.83	691.78	43.05	17.069	
11,700.00	10,498.74	11,167.48	9,766.25	20.28	31.91	-4.39	1,283.01	-1,205.43	734.67	691.45	43.22	16.999	
11,800.00	10,499.45	11,267.34	9,766.71	20.77	32.24	-3.98	1,382.86	-1,203.69	734.53	691.13	43.40	16.923	
11,900.00	10,500.16	11,367.21	9,767.17	21.28	32.59	-3.58	1,482.71	-1,201.95	734.44	690.83	43.61	16.842	
12,000.00	10,500.87	11,467.07	9,767.63	21.81	32.95	-3.17	1,582.55	-1,200.20	734.39	690.56	43.83	16.755	
12,039.59	10,501.15	11,506.61	9,767.81	22.02	33.10	-3.01	1,622.09	-1,199.51	734.37	690.45	43.92	16.721	
12,050.04	10,501.23	11,517.05	9,767.86	22.08	33.14	-2.97	1,632.52	-1,199.33	734.37	690.43	43.94	16.712	

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - TATER SALAD FEDERAL COM 704H - OWB - PWP2												Offset Site Error:	0.00 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR, 1500-r.5 MWD+IFR1, 9495-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	0.00 usft
Reference												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
12,100.00	10,501.58	11,566.96	9,768.09	22.36	33.33	-2.82	1,682.43	-1,198.46	734.40	690.33	44.07	16.664	
12,136.22	10,501.84	11,603.17	9,768.25	22.55	33.47	-2.75	1,718.64	-1,197.83	734.44	690.27	44.17	16.626	
12,200.00	10,502.30	11,666.94	9,768.55	22.91	33.73	-2.66	1,782.39	-1,196.72	734.55	690.18	44.37	16.556	
12,300.00	10,503.01	11,766.92	9,769.01	23.49	34.15	-2.51	1,882.36	-1,194.97	734.72	690.03	44.69	16.441	
12,400.00	10,503.72	11,866.90	9,769.46	24.09	34.58	-2.36	1,982.32	-1,193.23	734.89	689.87	45.03	16.321	
12,500.00	10,504.43	11,966.88	9,769.92	24.70	35.02	-2.22	2,082.29	-1,191.48	735.07	689.69	45.38	16.198	
12,600.00	10,505.14	12,066.87	9,770.38	25.32	35.48	-2.07	2,182.25	-1,189.74	735.25	689.51	45.75	16.072	
12,700.00	10,505.86	12,166.85	9,770.84	25.96	35.96	-1.93	2,282.22	-1,187.99	735.44	689.31	46.13	15.943	
12,800.00	10,506.57	12,266.83	9,771.30	26.61	36.45	-1.78	2,382.19	-1,186.25	735.63	689.11	46.53	15.811	
12,900.00	10,507.28	12,366.81	9,771.76	27.27	36.95	-1.64	2,482.15	-1,184.50	735.83	688.89	46.94	15.677	
13,000.00	10,507.99	12,466.80	9,772.22	27.94	37.46	-1.49	2,582.12	-1,182.76	736.03	688.67	47.36	15.541	
13,100.00	10,508.71	12,566.78	9,772.68	28.63	37.99	-1.35	2,682.08	-1,181.01	736.24	688.44	47.80	15.403	
13,200.00	10,509.42	12,666.76	9,773.14	29.32	38.52	-1.20	2,782.05	-1,179.27	736.45	688.20	48.25	15.263	
13,300.00	10,510.13	12,766.74	9,773.59	30.01	39.07	-1.05	2,882.02	-1,177.52	736.67	687.96	48.71	15.123	
13,400.00	10,510.84	12,866.73	9,774.05	30.72	39.63	-0.91	2,981.98	-1,175.78	736.89	687.70	49.19	14.981	
13,500.00	10,511.55	12,966.71	9,774.51	31.43	40.20	-0.76	3,081.95	-1,174.03	737.12	687.44	49.67	14.839	
13,600.00	10,512.27	13,066.69	9,774.97	32.16	40.77	-0.62	3,181.91	-1,172.29	737.35	687.17	50.17	14.696	
13,700.00	10,512.98	13,166.67	9,775.43	32.88	41.36	-0.47	3,281.88	-1,170.54	737.58	686.90	50.68	14.553	
13,800.00	10,513.69	13,266.65	9,775.89	33.62	41.96	-0.33	3,381.85	-1,168.80	737.82	686.62	51.20	14.410	
13,900.00	10,514.40	13,366.64	9,776.35	34.35	42.56	-0.19	3,481.81	-1,167.05	738.07	686.33	51.74	14.266	
14,000.00	10,515.12	13,466.62	9,776.81	35.10	43.17	-0.04	3,581.78	-1,165.31	738.32	686.04	52.27	14.124	
14,100.00	10,515.83	13,566.62	9,777.27	35.85	43.79	0.00	3,681.77	-1,164.94	738.57	685.73	52.84	13.978	
14,200.00	10,516.54	13,666.62	9,777.73	36.60	44.42	0.00	3,781.77	-1,165.06	738.82	685.40	53.42	13.831	
14,300.00	10,517.25	13,766.62	9,778.19	37.36	45.06	0.00	3,881.77	-1,165.18	739.07	685.07	54.01	13.685	
14,400.00	10,517.96	13,866.62	9,778.65	38.12	45.71	0.00	3,981.77	-1,165.29	739.33	684.72	54.60	13.540	
14,500.00	10,518.68	13,966.62	9,779.11	38.89	46.36	0.00	4,081.77	-1,165.41	739.58	684.37	55.21	13.396	
14,600.00	10,519.39	14,066.62	9,779.57	39.66	47.02	0.00	4,181.77	-1,165.53	739.83	684.01	55.82	13.253	
14,700.00	10,520.10	14,166.62	9,780.03	40.43	47.69	0.00	4,281.76	-1,165.64	740.08	683.64	56.45	13.111	
14,800.00	10,520.81	14,266.62	9,780.49	41.21	48.36	0.00	4,381.76	-1,165.76	740.34	683.26	57.07	12.971	
14,900.00	10,521.53	14,366.62	9,780.95	41.99	49.04	0.00	4,481.76	-1,165.88	740.59	682.88	57.71	12.833	
15,000.00	10,522.24	14,466.61	9,781.41	42.77	49.72	0.00	4,581.76	-1,166.00	740.84	682.49	58.35	12.696	
15,100.00	10,522.95	14,566.61	9,781.87	43.56	50.41	0.00	4,681.76	-1,166.11	741.09	682.09	59.00	12.560	
15,200.00	10,523.66	14,666.61	9,782.33	44.35	51.10	0.00	4,781.76	-1,166.23	741.34	681.68	59.66	12.426	
15,300.00	10,524.37	14,766.61	9,782.79	45.14	51.80	0.00	4,881.76	-1,166.35	741.60	681.27	60.32	12.294	
15,400.00	10,525.09	14,866.61	9,783.24	45.93	52.50	0.00	4,981.75	-1,166.46	741.85	680.86	60.99	12.163	
15,500.00	10,525.80	14,966.61	9,783.70	46.72	53.21	0.00	5,081.75	-1,166.58	742.10	680.44	61.66	12.034	
15,600.00	10,526.51	15,066.61	9,784.16	47.52	53.92	0.00	5,181.75	-1,166.70	742.35	680.01	62.34	11.907	
15,700.00	10,527.22	15,166.61	9,784.62	48.32	54.63	0.00	5,281.75	-1,166.81	742.61	679.58	63.03	11.782	
15,800.00	10,527.94	15,266.61	9,785.08	49.12	55.35	0.00	5,381.75	-1,166.93	742.86	679.14	63.72	11.658	
15,900.00	10,528.65	15,366.61	9,785.54	49.93	56.08	0.00	5,481.75	-1,167.05	743.11	678.69	64.42	11.536	
16,000.00	10,529.36	15,466.61	9,786.00	50.73	56.80	0.00	5,581.75	-1,167.16	743.36	678.25	65.12	11.416	
16,100.00	10,530.07	15,566.61	9,786.46	51.54	57.54	0.00	5,681.74	-1,167.28	743.62	677.79	65.82	11.297	
16,200.00	10,530.78	15,666.61	9,786.92	52.35	58.27	0.00	5,781.74	-1,167.40	743.87	677.34	66.53	11.180	
16,300.00	10,531.50	15,766.61	9,787.38	53.16	59.01	0.00	5,881.74	-1,167.51	744.12	676.87	67.25	11.065	
16,400.00	10,532.21	15,866.61	9,787.84	53.97	59.75	0.00	5,981.74	-1,167.63	744.37	676.41	67.97	10.952	
16,500.00	10,532.92	15,966.61	9,788.30	54.78	60.49	0.00	6,081.74	-1,167.75	744.63	675.94	68.69	10.840	
16,600.00	10,533.63	16,066.61	9,788.76	55.59	61.24	0.00	6,181.74	-1,167.87	744.88	675.46	69.42	10.731	
16,700.00	10,534.34	16,166.61	9,789.22	56.41	61.99	0.00	6,281.74	-1,167.98	745.13	674.98	70.15	10.622	
16,800.00	10,535.06	16,266.61	9,789.68	57.23	62.74	0.00	6,381.73	-1,168.10	745.38	674.50	70.88	10.516	
16,900.00	10,535.77	16,366.61	9,790.14	58.04	63.49	0.00	6,481.73	-1,168.22	745.63	674.01	71.62	10.411	
17,000.00	10,536.48	16,466.61	9,790.60	58.86	64.25	0.00	6,581.73	-1,168.33	745.89	673.52	72.36	10.307	

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - TATER SALAD FEDERAL COM 704H - OWB - PWP2													Offset Site Error:	0.00 usft
Survey Program:		0-r.5 MWD+IFR1+SAG+FDIR, 1500-r.5 MWD+IFR1, 9495-r.5 MWD+IFR1+SAG+FDIR						Rule Assigned:		Offset Well Error:		0.00 usft		
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
17,100.00	10,537.19	16,566.61	9,791.06	59.68	65.01	0.00	6,681.73	-1,168.45	746.14	673.03	73.11	10.206		
17,200.00	10,537.91	16,666.61	9,791.52	60.50	65.77	0.00	6,781.73	-1,168.57	746.39	672.53	73.86	10.106		
17,300.00	10,538.62	16,766.61	9,791.98	61.32	66.54	0.00	6,881.73	-1,168.68	746.64	672.03	74.61	10.007		
17,400.00	10,539.33	16,866.61	9,792.44	62.15	67.31	0.00	6,981.73	-1,168.80	746.90	671.53	75.37	9.910		
17,500.00	10,540.04	16,966.61	9,792.90	62.97	68.07	0.00	7,081.72	-1,168.92	747.15	671.02	76.13	9.815		
17,600.00	10,540.75	17,066.61	9,793.36	63.79	68.85	0.00	7,181.72	-1,169.03	747.40	670.51	76.89	9.721		
17,700.00	10,541.47	17,166.61	9,793.82	64.62	69.62	0.00	7,281.72	-1,169.15	747.65	670.00	77.65	9.628		
17,800.00	10,542.18	17,266.61	9,794.28	65.45	70.39	0.00	7,381.72	-1,169.27	747.91	669.49	78.42	9.537		
17,900.00	10,542.89	17,366.61	9,794.74	66.27	71.17	0.00	7,481.72	-1,169.39	748.16	668.97	79.19	9.448		
18,000.00	10,543.60	17,466.61	9,795.20	67.10	71.95	0.00	7,581.72	-1,169.50	748.41	668.45	79.96	9.360		
18,100.00	10,544.32	17,566.61	9,795.66	67.93	72.73	0.00	7,681.72	-1,169.62	748.66	667.93	80.74	9.273		
18,200.00	10,545.03	17,666.60	9,796.12	68.76	73.51	0.00	7,781.71	-1,169.74	748.92	667.40	81.51	9.187		
18,300.00	10,545.74	17,766.60	9,796.58	69.59	74.30	0.00	7,881.71	-1,169.85	749.17	666.87	82.29	9.103		
18,400.00	10,546.45	17,866.60	9,797.04	70.42	75.08	0.00	7,981.71	-1,169.97	749.42	666.34	83.08	9.021		
18,500.00	10,547.16	17,966.60	9,797.50	71.25	75.87	0.00	8,081.71	-1,170.09	749.67	665.81	83.86	8.939		
18,600.00	10,547.88	18,066.60	9,797.96	72.08	76.66	0.00	8,181.71	-1,170.20	749.92	665.28	84.65	8.859		
18,700.00	10,548.59	18,166.60	9,798.42	72.91	77.45	0.00	8,281.71	-1,170.32	750.18	664.74	85.44	8.780		
18,800.00	10,549.30	18,266.60	9,798.88	73.75	78.24	0.00	8,381.71	-1,170.44	750.43	664.20	86.23	8.703		
18,900.00	10,550.01	18,366.60	9,799.34	74.58	79.03	0.00	8,481.70	-1,170.55	750.68	663.66	87.02	8.626		
19,000.00	10,550.73	18,466.60	9,799.80	75.41	79.83	0.00	8,581.70	-1,170.67	750.93	663.12	87.82	8.551		
19,100.00	10,551.44	18,566.60	9,800.26	76.25	80.62	0.00	8,681.70	-1,170.79	751.19	662.57	88.62	8.477		
19,200.00	10,552.15	18,666.60	9,800.72	77.08	81.42	0.00	8,781.70	-1,170.90	751.44	662.02	89.42	8.404		
19,300.00	10,552.86	18,766.60	9,801.18	77.92	82.22	0.00	8,881.70	-1,171.02	751.69	661.47	90.22	8.332		
19,400.00	10,553.57	18,866.60	9,801.64	78.75	83.01	0.00	8,981.70	-1,171.14	751.94	660.92	91.02	8.261		
19,500.00	10,554.29	18,966.60	9,802.10	79.59	83.81	0.00	9,081.70	-1,171.26	752.20	660.37	91.82	8.192		
19,600.00	10,555.00	19,066.60	9,802.56	80.43	84.62	0.00	9,181.69	-1,171.37	752.45	659.82	92.63	8.123		
19,700.00	10,555.71	19,166.60	9,803.02	81.26	85.42	0.00	9,281.69	-1,171.49	752.70	659.26	93.44	8.056		
19,800.00	10,556.42	19,266.60	9,803.48	82.10	86.22	0.00	9,381.69	-1,171.61	752.95	658.70	94.25	7.989		
19,900.00	10,557.14	19,366.60	9,803.94	82.94	87.03	0.00	9,481.69	-1,171.72	753.21	658.15	95.06	7.924		
20,000.00	10,557.85	19,466.60	9,804.40	83.78	87.83	0.00	9,581.69	-1,171.84	753.46	657.59	95.87	7.859		
20,100.00	10,558.56	19,566.60	9,804.86	84.62	88.64	0.00	9,681.69	-1,171.96	753.71	657.02	96.69	7.795		
20,200.00	10,559.27	19,666.60	9,805.32	85.46	89.45	0.00	9,781.69	-1,172.07	753.96	656.46	97.50	7.733		
20,300.00	10,559.98	19,766.60	9,805.78	86.30	90.25	0.00	9,881.68	-1,172.19	754.21	655.90	98.32	7.671		
20,400.00	10,560.70	19,866.60	9,806.24	87.14	91.06	0.00	9,981.68	-1,172.31	754.47	655.33	99.14	7.610		
20,500.00	10,561.41	19,966.60	9,806.70	87.98	91.87	0.00	10,081.68	-1,172.42	754.72	654.76	99.96	7.550		
20,600.00	10,562.12	20,066.60	9,807.16	88.82	92.68	0.00	10,181.68	-1,172.54	754.97	654.19	100.78	7.491		
20,700.00	10,562.83	20,166.60	9,807.62	89.66	93.50	0.00	10,281.68	-1,172.66	755.22	653.62	101.60	7.433		
20,800.00	10,563.54	20,266.60	9,808.08	90.50	94.31	0.00	10,381.68	-1,172.78	755.48	653.05	102.42	7.376		
20,900.00	10,564.26	20,366.60	9,808.54	91.34	95.12	0.00	10,481.68	-1,172.89	755.73	652.48	103.25	7.320		
21,000.00	10,564.97	20,466.60	9,809.00	92.18	95.94	0.00	10,581.67	-1,173.01	755.98	651.91	104.07	7.264		
21,004.34	10,565.00	20,468.32	9,809.00	92.22	95.95	0.00	10,583.40	-1,173.01	756.00	651.87	104.12	7.261		
21,004.86	10,565.00	20,468.32	9,809.00	92.23	95.95	0.00	10,583.40	-1,173.01	756.00	651.91	104.09	7.263		

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - TATER SALAD FEDERAL COM 901H - OWB - PWP2													Offset Site Error: 0.00 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR, 2000-r.5 MWD+IFR1, 10146-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
0.00	0.00	0.10	0.00	0.00	0.00	179.57	-40.00	0.30	40.00				
100.00	100.00	100.10	100.00	0.77	0.77	179.57	-40.00	0.30	40.00	38.01	1.99	20.082	
200.00	200.00	200.10	200.00	1.44	1.44	179.57	-40.00	0.30	40.00	36.69	3.31	12.078	
300.00	300.00	300.10	300.00	1.88	1.88	179.57	-40.00	0.30	40.00	35.81	4.20	9.534	
400.00	400.00	400.10	400.00	2.25	2.25	179.57	-40.00	0.30	40.00	35.09	4.91	8.143	
500.00	500.00	500.10	500.00	2.56	2.56	179.57	-40.00	0.30	40.00	34.47	5.53	7.229	
600.00	600.00	600.10	600.00	2.84	2.84	179.57	-40.00	0.30	40.00	33.91	6.09	6.568	
700.00	700.00	700.10	700.00	3.10	3.10	179.57	-40.00	0.30	40.00	33.40	6.60	6.059	
800.00	800.00	800.10	800.00	3.34	3.34	179.57	-40.00	0.30	40.00	32.92	7.08	5.652	
900.00	900.00	900.10	900.00	3.57	3.57	179.57	-40.00	0.30	40.00	32.48	7.52	5.317	
1,000.00	1,000.00	1,000.10	1,000.00	3.79	3.79	179.57	-40.00	0.30	40.00	32.05	7.95	5.033	
1,100.00	1,100.00	1,100.10	1,100.00	3.99	3.99	179.57	-40.00	0.30	40.00	31.65	8.35	4.789	
1,200.00	1,200.00	1,200.10	1,200.00	4.19	4.19	179.57	-40.00	0.30	40.00	31.26	8.74	4.577	
1,300.00	1,300.00	1,300.10	1,300.00	4.38	4.38	179.57	-40.00	0.30	40.00	30.89	9.11	4.390	
1,400.00	1,400.00	1,400.10	1,400.00	4.56	4.56	179.57	-40.00	0.30	40.00	30.53	9.47	4.222	
1,500.00	1,500.00	1,500.10	1,500.00	4.74	4.74	179.57	-40.00	0.30	40.00	30.18	9.82	4.072	
1,600.00	1,600.00	1,600.10	1,600.00	4.91	4.91	179.57	-40.00	0.30	40.00	29.84	10.16	3.936	
1,700.00	1,700.00	1,700.10	1,700.00	5.08	5.08	179.57	-40.00	0.30	40.00	29.51	10.49	3.812	
1,800.00	1,800.00	1,800.10	1,800.00	5.24	5.24	179.57	-40.00	0.30	40.00	29.19	10.82	3.698	
1,900.00	1,900.00	1,900.10	1,900.00	5.40	5.40	179.57	-40.00	0.30	40.00	28.87	11.13	3.594	
2,000.00	2,000.00	2,000.10	2,000.00	5.56	5.56	179.57	-40.00	0.30	40.00	28.56	11.44	3.497 CC	
2,004.45	2,004.45	2,004.55	2,004.45	5.57	5.56	-90.43	-40.00	0.30	40.00	28.55	11.45	3.493	
2,100.00	2,099.98	2,100.08	2,099.98	5.78	5.70	-92.93	-40.00	0.30	40.05	28.33	11.72	3.418 ES	
2,200.00	2,199.84	2,199.94	2,199.84	6.00	5.83	-100.29	-40.00	0.30	40.66	28.68	11.98	3.395 SF	
2,300.00	2,299.45	2,299.55	2,299.45	6.21	5.95	-111.69	-40.00	0.30	43.08	30.82	12.26	3.515	
2,400.00	2,398.70	2,398.80	2,398.70	6.42	6.08	-124.90	-40.00	0.30	48.93	36.35	12.58	3.889	
2,500.00	2,497.47	2,497.57	2,497.47	6.62	6.20	-137.17	-40.00	0.30	59.33	46.39	12.95	4.583	
2,600.00	2,595.62	2,593.81	2,593.69	6.83	6.39	-147.55	-39.81	1.82	75.76	62.40	13.36	5.671	
2,700.00	2,693.06	2,687.65	2,687.42	7.03	6.58	-155.83	-39.24	6.40	99.71	85.93	13.78	7.238	
2,750.00	2,741.46	2,733.51	2,733.15	7.08	6.68	-159.08	-38.82	9.74	114.46	100.53	13.93	8.217	
2,800.00	2,789.76	2,778.73	2,778.19	7.12	6.78	-161.88	-38.31	13.74	130.58	116.51	14.07	9.281	
2,900.00	2,886.35	2,867.56	2,866.45	7.26	6.99	-166.07	-37.07	23.66	165.54	151.14	14.40	11.499	
3,000.00	2,982.94	2,954.20	2,952.20	7.41	7.22	-169.05	-35.53	35.95	203.76	189.04	14.72	13.844	
3,100.00	3,079.54	3,038.57	3,035.30	7.55	7.44	-171.25	-33.72	50.38	244.98	229.94	15.04	16.288	
3,200.00	3,176.13	3,122.64	3,117.67	7.71	7.67	-172.97	-31.63	67.09	288.92	273.55	15.37	18.795	
3,300.00	3,272.72	3,211.78	3,204.86	7.86	7.89	-174.36	-29.32	85.48	333.73	317.99	15.74	21.205	
3,400.00	3,369.31	3,300.93	3,292.06	8.02	8.12	-175.42	-27.01	103.86	378.66	362.54	16.12	23.485	
3,500.00	3,465.91	3,390.07	3,379.25	8.19	8.37	-176.25	-24.71	122.25	423.68	407.15	16.53	25.632	
3,600.00	3,562.50	3,479.21	3,466.45	8.35	8.63	-176.93	-22.40	140.64	468.75	451.80	16.95	27.652	
3,700.00	3,659.09	3,568.35	3,553.64	8.52	8.90	-177.49	-20.10	159.03	513.86	496.47	17.39	29.549	
3,800.00	3,755.68	3,657.50	3,640.84	8.70	9.19	-177.96	-17.79	177.42	559.01	541.16	17.84	31.327	
3,900.00	3,852.28	3,746.64	3,728.03	8.87	9.48	-178.35	-15.48	195.81	604.18	585.87	18.31	32.994	
4,000.00	3,948.87	3,835.78	3,815.23	9.05	9.78	-178.70	-13.18	214.20	649.37	630.58	18.79	34.555	
4,100.00	4,045.46	3,924.93	3,902.42	9.23	10.10	-178.99	-10.87	232.59	694.58	675.30	19.28	36.017	
4,200.00	4,142.05	4,014.07	3,989.62	9.42	10.42	-179.26	-8.57	250.98	739.80	720.02	19.79	37.386	
4,300.00	4,238.65	4,103.21	4,076.81	9.60	10.75	-179.49	-6.26	269.36	785.04	764.73	20.30	38.667	
4,400.00	4,335.24	4,192.35	4,164.01	9.79	11.08	-179.69	-3.95	287.75	830.28	809.45	20.83	39.866	
4,500.00	4,431.83	4,281.50	4,251.20	9.98	11.42	-179.88	-1.65	306.14	875.53	854.17	21.36	40.989	
4,600.00	4,528.42	4,370.64	4,338.40	10.18	11.77	179.95	0.66	324.53	920.78	898.88	21.90	42.042	
4,700.00	4,625.02	4,459.78	4,425.59	10.37	12.12	179.80	2.96	342.92	966.05	943.59	22.45	43.030	

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - TATER SALAD FEDERAL COM 902H - OWB - PWP2													Offset Site Error: 0.00 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR, 2000-r.5 MWD+IFR1, 10318-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis	Offset Wellbore Centre	Distance	Rule Assigned:				Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	179.71	-20.00	0.10	20.00				
100.00	100.00	100.00	100.00	0.77	0.77	179.71	-20.00	0.10	20.00	18.01	1.99	10.044	
200.00	200.00	200.00	200.00	1.44	1.44	179.71	-20.00	0.10	20.00	16.69	3.31	6.040	
300.00	300.00	300.00	300.00	1.88	1.88	179.71	-20.00	0.10	20.00	15.80	4.20	4.767	
400.00	400.00	400.00	400.00	2.25	2.25	179.71	-20.00	0.10	20.00	15.09	4.91	4.072	
500.00	500.00	500.00	500.00	2.56	2.56	179.71	-20.00	0.10	20.00	14.47	5.53	3.615	
600.00	600.00	600.00	600.00	2.84	2.84	179.71	-20.00	0.10	20.00	13.91	6.09	3.284	
700.00	700.00	700.00	700.00	3.10	3.10	179.71	-20.00	0.10	20.00	13.40	6.60	3.030	
800.00	800.00	800.00	800.00	3.34	3.34	179.71	-20.00	0.10	20.00	12.92	7.08	2.826 Normal Operations	
900.00	900.00	900.00	900.00	3.57	3.57	179.71	-20.00	0.10	20.00	12.48	7.52	2.658 Normal Operations	
1,000.00	1,000.00	1,000.00	1,000.00	3.79	3.79	179.71	-20.00	0.10	20.00	12.05	7.95	2.517 Normal Operations	
1,100.00	1,100.00	1,100.00	1,100.00	3.99	3.99	179.71	-20.00	0.10	20.00	11.65	8.35	2.395 Caution - Monitor Closely	
1,200.00	1,200.00	1,200.00	1,200.00	4.19	4.19	179.71	-20.00	0.10	20.00	11.26	8.74	2.289 Caution - Monitor Closely	
1,300.00	1,300.00	1,300.00	1,300.00	4.38	4.38	179.71	-20.00	0.10	20.00	10.89	9.11	2.195 Caution - Monitor Closely	
1,400.00	1,400.00	1,400.00	1,400.00	4.56	4.56	179.71	-20.00	0.10	20.00	10.53	9.47	2.111 Caution - Monitor Closely	
1,500.00	1,500.00	1,500.00	1,500.00	4.74	4.74	179.71	-20.00	0.10	20.00	10.18	9.82	2.036 Caution - Monitor Closely	
1,600.00	1,600.00	1,600.00	1,600.00	4.91	4.91	179.71	-20.00	0.10	20.00	9.84	10.16	1.968 Caution - Monitor Closely	
1,700.00	1,700.00	1,700.00	1,700.00	5.08	5.08	179.71	-20.00	0.10	20.00	9.51	10.49	1.906 Caution - Monitor Closely	
1,800.00	1,800.00	1,800.00	1,800.00	5.24	5.24	179.71	-20.00	0.10	20.00	9.18	10.82	1.849 Caution - Monitor Closely	
1,900.00	1,900.00	1,900.00	1,900.00	5.40	5.40	179.71	-20.00	0.10	20.00	8.87	11.13	1.797 Caution - Monitor Closely	
2,000.00	2,000.00	2,000.00	2,000.00	5.56	5.56	179.71	-20.00	0.10	20.00	8.56	11.44	1.748 Caution - Monitor Closely	
2,100.00	2,099.98	2,100.14	2,100.14	5.78	5.70	-97.50	-19.50	0.82	19.67	7.95	11.72	1.678 Caution - Monitor Closely	
2,124.00	2,123.96	2,124.14	2,124.13	5.84	5.73	-101.43	-19.23	1.20	19.62	7.83	11.78	1.665 Caution - Monitor Closely, CC, ES, SF	
2,200.00	2,199.84	2,199.95	2,199.91	6.00	5.84	-118.85	-18.00	2.96	20.56	8.55	12.01	1.712 Caution - Monitor Closely	
2,300.00	2,299.45	2,299.10	2,298.97	6.21	5.99	-144.81	-15.52	6.49	27.08	14.69	12.40	2.185 Caution - Monitor Closely	
2,400.00	2,398.70	2,397.27	2,396.95	6.42	6.16	-162.60	-12.10	11.38	41.12	28.32	12.80	3.212	
2,500.00	2,497.47	2,494.14	2,493.53	6.62	6.35	-172.54	-7.79	17.54	61.69	48.50	13.19	4.678	
2,600.00	2,595.62	2,588.07	2,587.03	6.83	6.56	-177.48	-3.72	25.45	88.54	74.98	13.56	6.528	
2,700.00	2,693.06	2,679.30	2,677.65	7.03	6.79	-179.43	-1.13	35.72	121.80	107.85	13.95	8.729	
2,750.00	2,741.46	2,724.07	2,722.00	7.08	6.89	-179.85	-0.34	41.70	140.66	126.58	14.08	9.989	
2,800.00	2,789.76	2,770.10	2,767.59	7.12	7.00	179.87	0.34	48.07	160.16	145.93	14.23	11.253	
2,900.00	2,886.35	2,862.17	2,858.76	7.26	7.24	179.47	1.71	60.81	199.17	184.57	14.60	13.644	
3,000.00	2,982.94	2,954.24	2,949.94	7.41	7.49	179.20	3.08	73.55	238.19	223.20	14.98	15.898	
3,100.00	3,079.54	3,046.31	3,041.11	7.55	7.75	179.00	4.45	86.29	277.20	261.82	15.38	18.019	
3,200.00	3,176.13	3,138.39	3,132.29	7.71	8.03	178.86	5.81	99.03	316.22	300.42	15.80	20.011	
3,300.00	3,272.72	3,230.46	3,223.46	7.86	8.31	178.74	7.18	111.77	355.24	339.01	16.24	21.880	
3,400.00	3,369.31	3,322.53	3,314.64	8.02	8.60	178.65	8.55	124.51	394.26	377.58	16.68	23.633	
3,500.00	3,465.91	3,414.60	3,405.81	8.19	8.90	178.58	9.92	137.25	433.28	416.14	17.14	25.276	
3,600.00	3,562.50	3,506.67	3,496.99	8.35	9.21	178.51	11.28	149.99	472.31	454.69	17.61	26.814	
3,700.00	3,659.09	3,598.74	3,588.16	8.52	9.53	178.46	12.65	162.73	511.33	493.23	18.10	28.256	
3,800.00	3,755.68	3,690.81	3,679.34	8.70	9.85	178.41	14.02	175.47	550.35	531.76	18.59	29.606	
3,900.00	3,852.28	3,782.88	3,770.51	8.87	10.18	178.37	15.39	188.22	589.38	570.28	19.09	30.872	
4,000.00	3,948.87	3,874.95	3,861.69	9.05	10.51	178.34	16.76	200.96	628.40	608.80	19.60	32.059	
4,100.00	4,045.46	3,967.02	3,952.86	9.23	10.84	178.31	18.12	213.70	667.42	647.30	20.12	33.173	
4,200.00	4,142.05	4,059.10	4,044.03	9.42	11.19	178.28	19.49	226.44	706.45	685.80	20.64	34.219	
4,300.00	4,238.65	4,151.17	4,135.21	9.60	11.53	178.26	20.86	239.18	745.47	724.29	21.18	35.202	
4,400.00	4,335.24	4,243.24	4,226.38	9.79	11.88	178.24	22.23	251.92	784.49	762.78	21.72	36.126	
4,500.00	4,431.83	4,335.31	4,317.56	9.98	12.22	178.22	23.60	264.66	823.52	801.27	22.25	37.013	
4,600.00	4,528.42	4,438.28	4,419.59	10.18	12.59	178.20	25.08	278.46	862.15	839.31	22.84	37.749	
4,700.00	4,625.02	4,548.01	4,528.57	10.37	13.00	178.19	26.45	291.23	899.13	875.64	23.48	38.289	
4,800.00	4,721.61	4,659.39	4,639.41	10.57	13.41	178.20	27.61	302.08	934.30	910.19	24.12	38.741	

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design:	TATER SALAD & MOMBA FEDERAL - TATER SALAD FEDERAL COM 902H - OWB - PWP2											Offset Site Error:	0.00 usft
Survey Program:	0-r.5 MWD+IFR1+SAG+FDIR, 2000-r.5 MWD+IFR1, 10318-r.5 MWD+IFR1+SAG+FDIR											Offset Well Error:	0.00 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	
4,900.00	4,818.20	4,772.37	4,752.03	10.77	13.80	178.21	28.56	310.89	967.65	942.91	24.74	39.120	
5,000.00	4,914.80	4,886.88	4,866.35	10.97	14.18	178.24	29.28	317.56	999.12	973.79	25.33	39.440	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - TATER SALAD FEDERAL COM 903H - OWB - PWP2													Offset Site Error: 0.00 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR, 2000-r.5 MWD+IFR1, 9992-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
0.00	0.00	0.10	0.00	0.00	0.00	-0.43	40.00	-0.30	40.00				
100.00	100.00	100.10	100.00	0.77	0.77	-0.43	40.00	-0.30	40.00	38.01	1.99	20.082	
200.00	200.00	200.10	200.00	1.44	1.44	-0.43	40.00	-0.30	40.00	36.69	3.31	12.078	
300.00	300.00	300.10	300.00	1.88	1.88	-0.43	40.00	-0.30	40.00	35.81	4.20	9.534	
400.00	400.00	400.10	400.00	2.25	2.25	-0.43	40.00	-0.30	40.00	35.09	4.91	8.143	
500.00	500.00	500.10	500.00	2.56	2.56	-0.43	40.00	-0.30	40.00	34.47	5.53	7.229	
600.00	600.00	600.10	600.00	2.84	2.84	-0.43	40.00	-0.30	40.00	33.91	6.09	6.568	
700.00	700.00	700.10	700.00	3.10	3.10	-0.43	40.00	-0.30	40.00	33.40	6.60	6.059	
800.00	800.00	800.10	800.00	3.34	3.34	-0.43	40.00	-0.30	40.00	32.92	7.08	5.652	
900.00	900.00	900.10	900.00	3.57	3.57	-0.43	40.00	-0.30	40.00	32.48	7.52	5.317	
1,000.00	1,000.00	1,000.10	1,000.00	3.79	3.79	-0.43	40.00	-0.30	40.00	32.05	7.95	5.033	
1,100.00	1,100.00	1,100.10	1,100.00	3.99	3.99	-0.43	40.00	-0.30	40.00	31.65	8.35	4.789	
1,200.00	1,200.00	1,200.10	1,200.00	4.19	4.19	-0.43	40.00	-0.30	40.00	31.26	8.74	4.577	
1,300.00	1,300.00	1,300.10	1,300.00	4.38	4.38	-0.43	40.00	-0.30	40.00	30.89	9.11	4.390	
1,400.00	1,400.00	1,400.10	1,400.00	4.56	4.56	-0.43	40.00	-0.30	40.00	30.53	9.47	4.222	
1,500.00	1,500.00	1,500.10	1,500.00	4.74	4.74	-0.43	40.00	-0.30	40.00	30.18	9.82	4.072	
1,600.00	1,600.00	1,600.10	1,600.00	4.91	4.91	-0.43	40.00	-0.30	40.00	29.84	10.16	3.936	
1,700.00	1,700.00	1,700.10	1,700.00	5.08	5.08	-0.43	40.00	-0.30	40.00	29.51	10.49	3.812	
1,800.00	1,800.00	1,800.10	1,800.00	5.24	5.24	-0.43	40.00	-0.30	40.00	29.19	10.82	3.698	
1,900.00	1,900.00	1,900.10	1,900.00	5.40	5.40	-0.43	40.00	-0.30	40.00	28.87	11.13	3.594	
1,966.63	1,966.63	1,966.73	1,966.63	5.50	5.50	-0.43	40.00	-0.30	40.00	28.66	11.34	3.528 CC	
2,000.00	2,000.00	2,000.00	1,999.90	5.56	5.56	-0.43	40.00	-0.30	40.00	28.56	11.44	3.497 ES	
2,100.00	2,099.98	2,099.28	2,099.16	5.78	5.78	90.02	41.00	-1.70	41.00	29.26	11.75	3.491 SF	
2,200.00	2,199.84	2,198.39	2,198.13	6.00	6.01	91.25	43.98	-5.90	44.02	32.00	12.02	3.662	
2,300.00	2,299.45	2,297.37	2,296.74	6.21	6.25	92.95	48.93	-12.87	49.09	36.80	12.29	3.994	
2,400.00	2,398.70	2,396.16	2,394.80	6.42	6.51	94.80	55.84	-22.59	56.23	43.67	12.56	4.476	
2,500.00	2,497.47	2,495.70	2,493.37	6.62	6.72	97.83	63.87	-33.88	64.72	51.90	12.82	5.049	
2,600.00	2,595.62	2,595.07	2,591.77	6.83	6.94	102.75	71.88	-45.16	74.07	60.99	13.08	5.664	
2,700.00	2,693.06	2,694.10	2,689.84	7.03	7.19	108.72	79.87	-56.40	84.93	71.59	13.34	6.365	
2,750.00	2,741.46	2,743.46	2,738.72	7.08	7.31	111.89	83.85	-62.00	91.14	77.69	13.45	6.776	
2,800.00	2,789.76	2,792.75	2,787.53	7.12	7.44	114.99	87.82	-67.59	97.80	84.23	13.56	7.211	
2,900.00	2,886.35	2,891.34	2,885.16	7.26	7.72	120.04	95.77	-78.77	111.80	97.94	13.86	8.069	
3,000.00	2,982.94	2,989.93	2,982.79	7.41	8.00	123.96	103.72	-89.96	126.47	112.31	14.16	8.933	
3,100.00	3,079.54	3,088.52	3,080.42	7.55	8.30	127.05	111.67	-101.15	141.60	127.13	14.47	9.789	
3,200.00	3,176.13	3,187.11	3,178.05	7.71	8.61	129.55	119.62	-112.33	157.06	142.28	14.78	10.627	
3,300.00	3,272.72	3,285.42	3,275.47	7.86	8.93	131.74	127.29	-123.12	172.81	157.71	15.10	11.442	
3,400.00	3,369.31	3,383.38	3,372.74	8.02	9.25	134.06	133.99	-132.55	189.04	173.60	15.44	12.244	
3,500.00	3,465.91	3,480.99	3,469.84	8.19	9.56	136.46	139.71	-140.60	205.85	190.07	15.78	13.042	
3,600.00	3,562.50	3,578.18	3,566.69	8.35	9.87	138.91	144.45	-147.27	223.39	207.24	16.14	13.837	
3,700.00	3,659.09	3,674.92	3,663.21	8.52	10.16	141.37	148.23	-152.58	241.74	225.22	16.52	14.634	
3,800.00	3,755.68	3,771.15	3,759.31	8.70	10.45	143.82	151.05	-156.55	261.01	244.10	16.91	15.439	
3,900.00	3,852.28	3,866.82	3,854.92	8.87	10.71	146.23	152.92	-159.18	281.29	263.98	17.30	16.256	
4,000.00	3,948.87	3,961.87	3,949.97	9.05	10.93	148.59	153.87	-160.52	302.66	284.95	17.70	17.095	
4,100.00	4,045.46	4,057.37	4,045.46	9.23	11.06	150.89	154.00	-160.70	325.11	307.02	18.09	17.971	
4,200.00	4,142.05	4,153.96	4,142.05	9.42	11.14	152.95	154.00	-160.70	348.12	329.65	18.47	18.851	
4,300.00	4,238.65	4,250.56	4,238.65	9.60	11.21	154.75	154.00	-160.70	371.51	352.68	18.82	19.735	
4,400.00	4,335.24	4,347.15	4,335.24	9.79	11.28	156.34	154.00	-160.70	395.21	376.03	19.17	20.612	
4,500.00	4,431.83	4,443.74	4,431.83	9.98	11.35	157.76	154.00	-160.70	419.16	399.65	19.52	21.479	
4,600.00	4,528.42	4,540.33	4,528.42	10.18	11.42	159.02	154.00	-160.70	443.34	423.49	19.85	22.334	
4,700.00	4,625.02	4,636.93	4,625.02	10.37	11.49	160.15	154.00	-160.70	467.69	447.51	20.18	23.176	
4,800.00	4,721.61	4,733.52	4,721.61	10.57	11.56	161.17	154.00	-160.70	492.21	471.70	20.51	24.004	

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - TATER SALAD FEDERAL COM 903H - OWB - PWP2												Offset Site Error:	0.00 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR, 2000-r.5 MWD+IFR1, 9992-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		No-Go		Separation	
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)	Distance (usft)	Factor	Warning
4,900.00	4,818.20	4,830.11	4,818.20	10.77	11.64	162.09	154.00	-160.70	516.85	496.03	20.83	24.816	
5,000.00	4,914.80	4,926.70	4,914.80	10.97	11.71	162.93	154.00	-160.70	541.61	520.47	21.15	25.613	
5,100.00	5,011.39	5,023.30	5,011.39	11.17	11.78	163.70	154.00	-160.70	566.47	545.01	21.46	26.394	
5,200.00	5,107.98	5,119.89	5,107.98	11.37	11.85	164.40	154.00	-160.70	591.42	569.65	21.78	27.159	
5,300.00	5,204.57	5,216.48	5,204.57	11.57	11.92	165.05	154.00	-160.70	616.45	594.36	22.09	27.908	
5,400.00	5,301.17	5,313.07	5,301.17	11.78	11.99	165.64	154.00	-160.70	641.54	619.14	22.40	28.640	
5,500.00	5,397.76	5,409.67	5,397.76	11.99	12.07	166.19	154.00	-160.70	666.70	643.99	22.71	29.356	
5,600.00	5,494.35	5,506.26	5,494.35	12.20	12.14	166.70	154.00	-160.70	691.91	668.88	23.02	30.056	
5,700.00	5,590.94	5,602.85	5,590.94	12.41	12.21	167.18	154.00	-160.70	717.16	693.83	23.33	30.740	
5,800.00	5,687.54	5,699.44	5,687.54	12.62	12.28	167.62	154.00	-160.70	742.46	718.82	23.64	31.408	
5,885.37	5,770.00	5,781.91	5,770.00	12.79	12.34	167.97	154.00	-160.70	764.09	740.20	23.89	31.980	
5,900.00	5,784.13	5,796.04	5,784.13	12.81	12.35	168.04	154.00	-160.70	767.78	743.85	23.93	32.082	
6,000.00	5,881.01	5,892.92	5,881.01	13.04	12.43	168.46	154.00	-160.70	792.08	767.83	24.26	32.655	
6,100.00	5,978.31	5,990.21	5,978.31	13.25	12.50	168.83	154.00	-160.70	814.75	790.19	24.56	33.177	
6,200.00	6,075.99	6,087.90	6,075.99	13.45	12.57	169.16	154.00	-160.70	835.77	810.91	24.86	33.625	
6,300.00	6,174.03	6,185.94	6,174.03	13.65	12.65	169.44	154.00	-160.70	855.13	829.98	25.15	34.001	
6,400.00	6,272.40	6,284.31	6,272.40	13.85	12.72	169.69	154.00	-160.70	872.81	847.37	25.44	34.309	
6,500.00	6,371.07	6,382.98	6,371.07	14.04	12.79	169.90	154.00	-160.70	888.81	863.09	25.73	34.550	
6,600.00	6,470.01	6,481.92	6,470.01	14.23	12.87	170.09	154.00	-160.70	903.12	877.12	26.01	34.727	
6,700.00	6,569.18	6,581.09	6,569.18	14.41	12.94	170.25	154.00	-160.70	915.74	889.46	26.28	34.843	
6,800.00	6,668.57	6,680.48	6,668.57	14.59	13.02	170.38	154.00	-160.70	926.65	900.10	26.55	34.901	
6,900.00	6,768.13	6,780.04	6,768.13	14.76	13.09	170.50	154.00	-160.70	935.85	909.04	26.81	34.902	
7,000.00	6,867.84	6,879.75	6,867.84	14.93	13.17	170.58	154.00	-160.70	943.34	916.27	27.07	34.849	
7,100.00	6,967.67	6,979.58	6,967.67	15.09	13.24	170.65	154.00	-160.70	949.11	921.80	27.32	34.746	
7,200.00	7,067.58	7,079.49	7,067.58	15.24	13.32	170.70	154.00	-160.70	953.16	925.61	27.55	34.596	
7,300.00	7,167.55	7,179.46	7,167.55	15.38	13.39	170.72	154.00	-160.70	955.50	927.72	27.77	34.403	
7,385.37	7,252.92	7,264.83	7,252.92	15.44	13.46	80.73	154.00	-160.70	956.12	928.22	27.91	34.259	
7,400.00	7,267.55	7,279.46	7,267.55	15.45	13.47	80.73	154.00	-160.70	956.12	928.20	27.92	34.245	
7,500.00	7,367.55	7,379.46	7,367.55	15.51	13.55	80.73	154.00	-160.70	956.12	928.06	28.06	34.070	
7,600.00	7,467.55	7,479.46	7,467.55	15.56	13.62	80.73	154.00	-160.70	956.12	927.94	28.19	33.919	
7,700.00	7,567.55	7,579.46	7,567.55	15.61	13.70	80.73	154.00	-160.70	956.12	927.81	28.31	33.769	
7,800.00	7,667.55	7,679.46	7,667.55	15.65	13.77	80.73	154.00	-160.70	956.12	927.68	28.44	33.619	
7,900.00	7,767.55	7,779.46	7,767.55	15.70	13.85	80.73	154.00	-160.70	956.12	927.56	28.57	33.471	
8,000.00	7,867.55	7,879.46	7,867.55	15.75	13.93	80.73	154.00	-160.70	956.12	927.43	28.69	33.323	
8,100.00	7,967.55	7,979.46	7,967.55	15.80	14.00	80.73	154.00	-160.70	956.12	927.30	28.82	33.177	
8,200.00	8,067.55	8,079.46	8,067.55	15.85	14.08	80.73	154.00	-160.70	956.12	927.18	28.95	33.031	
8,300.00	8,167.55	8,179.46	8,167.55	15.90	14.16	80.73	154.00	-160.70	956.12	927.05	29.07	32.886	
8,400.00	8,267.55	8,279.46	8,267.55	15.95	14.23	80.73	154.00	-160.70	956.12	926.92	29.20	32.742	
8,500.00	8,367.55	8,379.46	8,367.55	16.00	14.31	80.73	154.00	-160.70	956.12	926.79	29.33	32.599	
8,600.00	8,467.55	8,479.46	8,467.55	16.05	14.39	80.73	154.00	-160.70	956.12	926.67	29.46	32.457	
8,700.00	8,567.55	8,579.46	8,567.55	16.10	14.46	80.73	154.00	-160.70	956.12	926.54	29.59	32.316	
8,800.00	8,667.55	8,679.46	8,667.55	16.15	14.54	80.73	154.00	-160.70	956.12	926.41	29.72	32.175	
8,900.00	8,767.55	8,779.46	8,767.55	16.21	14.62	80.73	154.00	-160.70	956.12	926.28	29.85	32.036	
9,000.00	8,867.55	8,879.46	8,867.55	16.26	14.69	80.73	154.00	-160.70	956.12	926.15	29.98	31.897	
9,100.00	8,967.55	8,979.46	8,967.55	16.31	14.77	80.73	154.00	-160.70	956.12	926.02	30.11	31.759	
9,200.00	9,067.55	9,079.46	9,067.55	16.36	14.85	80.73	154.00	-160.70	956.12	925.89	30.24	31.622	
9,300.00	9,167.55	9,179.46	9,167.55	16.41	14.92	80.73	154.00	-160.70	956.12	925.76	30.37	31.486	
9,400.00	9,267.55	9,279.46	9,267.55	16.47	15.00	80.73	154.00	-160.70	956.12	925.63	30.50	31.351	
9,500.00	9,367.55	9,379.46	9,367.55	16.52	15.08	80.73	154.00	-160.70	956.12	925.50	30.63	31.217	
9,600.00	9,467.55	9,479.46	9,467.55	16.57	15.15	80.73	154.00	-160.70	956.12	925.36	30.76	31.083	
9,700.00	9,567.55	9,579.46	9,567.55	16.63	15.23	80.73	154.00	-160.70	956.12	925.23	30.89	30.951	

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - TATER SALAD FEDERAL COM 903H - OWB - PWP2												Offset Site Error:	0.00 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR, 2000-r.5 MWD+IFR1, 9992-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
9,800.00	9,667.55	9,679.46	9,667.55	16.68	15.31	80.73	154.00	-160.70	956.12	925.10	31.02	30.819	
9,900.00	9,767.55	9,779.46	9,767.55	16.73	15.39	80.73	154.00	-160.70	956.12	924.97	31.16	30.688	
10,000.00	9,867.55	9,879.46	9,867.55	16.79	15.46	80.73	154.00	-160.70	956.12	924.83	31.29	30.558	
10,100.00	9,967.55	9,979.46	9,967.55	16.84	15.54	80.73	154.00	-160.70	956.12	924.71	31.42	30.432	
10,148.00	10,015.55	10,018.94	10,007.02	16.85	15.55	80.69	154.73	-160.70	956.28	924.85	31.43	30.426	
10,150.00	10,017.55	10,020.45	10,008.53	16.85	15.55	82.68	154.82	-160.70	956.30	924.87	31.43	30.427	
10,175.00	10,042.54	10,039.32	10,027.33	16.86	15.56	82.60	156.30	-160.70	956.52	925.08	31.44	30.428	
10,200.00	10,067.45	10,058.16	10,046.04	16.87	15.56	82.54	158.51	-160.71	956.73	925.30	31.43	30.437	
10,225.00	10,092.22	10,075.00	10,062.68	16.87	15.57	82.49	161.12	-160.71	956.93	925.50	31.43	30.445	
10,250.00	10,116.78	10,095.81	10,083.09	16.87	15.57	82.46	165.14	-160.71	957.13	925.69	31.44	30.445	
10,275.00	10,141.06	10,114.62	10,101.39	16.87	15.58	82.44	169.54	-160.72	957.31	925.86	31.44	30.445	
10,300.00	10,165.00	10,133.45	10,119.50	16.87	15.58	82.44	174.66	-160.72	957.48	926.03	31.45	30.441	
10,325.00	10,188.52	10,150.00	10,135.25	16.87	15.59	82.45	179.75	-160.73	957.65	926.18	31.47	30.434	
10,350.00	10,211.58	10,171.13	10,155.08	16.87	15.59	82.49	187.04	-160.74	957.79	926.31	31.48	30.424	
10,375.00	10,234.10	10,190.01	10,172.51	16.87	15.60	82.53	194.29	-160.75	957.93	926.43	31.50	30.410	
10,400.00	10,256.01	10,208.91	10,189.67	16.87	15.60	82.60	202.23	-160.76	958.06	926.54	31.52	30.394	
10,425.00	10,277.27	10,225.00	10,204.01	16.87	15.61	82.66	209.52	-160.77	958.19	926.65	31.55	30.374	
10,450.00	10,297.81	10,246.84	10,223.07	16.87	15.62	82.77	220.18	-160.78	958.30	926.73	31.57	30.353	
10,475.00	10,317.58	10,265.88	10,239.27	16.88	15.63	82.88	230.17	-160.79	958.41	926.81	31.60	30.328	
10,500.00	10,336.52	10,284.98	10,255.11	16.88	15.63	83.00	240.84	-160.80	958.51	926.88	31.63	30.301	
10,525.00	10,354.58	10,304.14	10,270.56	16.88	15.64	83.14	252.17	-160.81	958.62	926.95	31.67	30.271	
10,550.00	10,371.71	10,325.00	10,286.85	16.89	15.65	83.31	265.20	-160.83	958.72	927.02	31.70	30.241	
10,575.00	10,387.87	10,342.70	10,300.21	16.90	15.66	83.46	276.80	-160.84	958.82	927.08	31.74	30.205	
10,600.00	10,403.00	10,362.10	10,314.36	16.91	15.67	83.65	290.08	-160.86	958.93	927.15	31.79	30.168	
10,625.00	10,417.07	10,381.61	10,328.03	16.93	15.68	83.84	304.00	-160.88	959.05	927.22	31.83	30.130	
10,650.00	10,430.04	10,400.00	10,340.38	16.94	15.69	84.03	317.62	-160.89	959.17	927.30	31.88	30.089	
10,675.00	10,441.88	10,420.95	10,353.80	16.97	15.70	84.27	333.71	-160.91	959.31	927.39	31.93	30.047	
10,700.00	10,452.55	10,440.81	10,365.85	16.99	15.71	84.50	349.48	-160.93	959.47	927.49	31.98	30.002	
10,725.00	10,462.01	10,460.80	10,377.32	17.02	15.73	84.75	365.85	-160.95	959.64	927.61	32.04	29.956	
10,750.00	10,470.26	10,480.93	10,388.16	17.06	15.74	85.00	382.82	-160.97	959.84	927.75	32.09	29.907	
10,775.00	10,477.26	10,500.00	10,397.77	17.10	15.75	85.25	399.29	-160.99	960.07	927.91	32.16	29.856	
10,800.00	10,482.99	10,521.69	10,407.88	17.14	15.77	85.55	418.48	-161.01	960.32	928.09	32.22	29.803	
10,825.00	10,487.44	10,542.34	10,416.69	17.19	15.79	85.83	437.15	-161.03	960.60	928.31	32.29	29.747	
10,850.00	10,490.60	10,563.18	10,424.75	17.24	15.80	86.13	456.37	-161.05	960.92	928.55	32.37	29.689	
10,875.00	10,492.46	10,584.23	10,432.04	17.29	15.82	86.43	476.11	-161.08	961.28	928.83	32.45	29.628	
10,894.59	10,493.00	10,600.00	10,436.92	17.33	15.84	86.66	491.11	-161.09	961.58	929.07	32.51	29.579	
10,900.00	10,493.04	10,605.51	10,438.51	17.34	15.84	86.76	496.38	-161.10	961.67	929.15	32.53	29.564	
11,000.00	10,493.75	10,694.96	10,455.66	17.60	15.94	87.75	584.04	-161.20	964.13	931.20	32.92	29.283	
11,100.00	10,494.46	10,791.48	10,458.44	17.89	16.08	87.88	680.48	-161.32	967.41	934.01	33.40	28.966	
11,200.00	10,495.17	10,891.42	10,459.28	18.22	16.28	87.89	780.42	-161.43	970.77	936.81	33.97	28.580	
11,300.00	10,495.89	10,991.36	10,460.11	18.57	16.53	87.91	880.36	-161.55	974.14	939.53	34.61	28.146	
11,400.00	10,496.60	11,091.31	10,460.94	18.96	16.83	87.92	980.30	-161.67	977.51	942.18	35.32	27.673	
11,500.00	10,497.31	11,191.25	10,461.78	19.37	17.17	87.94	1,080.24	-161.78	980.87	944.77	36.10	27.169	
11,600.00	10,498.02	11,291.19	10,462.61	19.81	17.56	87.95	1,180.18	-161.90	984.24	947.29	36.94	26.641	
11,700.00	10,498.74	11,391.14	10,463.45	20.28	17.99	87.96	1,280.12	-162.02	987.61	949.76	37.84	26.097	
11,800.00	10,499.45	11,491.08	10,464.28	20.77	18.45	87.98	1,380.06	-162.14	990.97	952.17	38.80	25.542	
11,900.00	10,500.16	11,591.02	10,465.11	21.28	18.95	87.99	1,480.00	-162.25	994.34	954.54	39.80	24.983	
12,000.00	10,500.87	11,690.97	10,465.95	21.81	19.47	88.01	1,579.93	-162.37	997.70	956.86	40.85	24.424	
12,039.59	10,501.15	11,730.54	10,466.28	22.02	19.69	88.01	1,619.50	-162.42	999.04	957.76	41.27	24.206	

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - TATER SALAD FEDERAL COM 904H - OWB - PWP2													Offset Site Error: 0.00 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR, 2000-r.5 MWD+IFR1, 10330-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-0.57	20.00	-0.20	20.00				
100.00	100.00	100.00	100.00	0.77	0.77	-0.57	20.00	-0.20	20.00	18.01	1.99	10.045	
200.00	200.00	200.00	200.00	1.44	1.44	-0.57	20.00	-0.20	20.00	16.69	3.31	6.040	
300.00	300.00	300.00	300.00	1.88	1.88	-0.57	20.00	-0.20	20.00	15.81	4.20	4.767	
400.00	400.00	400.00	400.00	2.25	2.25	-0.57	20.00	-0.20	20.00	15.09	4.91	4.072	
500.00	500.00	500.00	500.00	2.56	2.56	-0.57	20.00	-0.20	20.00	14.47	5.53	3.615	
600.00	600.00	600.00	600.00	2.84	2.84	-0.57	20.00	-0.20	20.00	13.91	6.09	3.284	
700.00	700.00	700.00	700.00	3.10	3.10	-0.57	20.00	-0.20	20.00	13.40	6.60	3.030	
800.00	800.00	800.00	800.00	3.34	3.34	-0.57	20.00	-0.20	20.00	12.92	7.08	2.826 Normal Operations	
900.00	900.00	900.00	900.00	3.57	3.57	-0.57	20.00	-0.20	20.00	12.48	7.52	2.658 Normal Operations	
1,000.00	1,000.00	1,000.00	1,000.00	3.79	3.79	-0.57	20.00	-0.20	20.00	12.05	7.95	2.517 Normal Operations	
1,100.00	1,100.00	1,100.00	1,100.00	3.99	3.99	-0.57	20.00	-0.20	20.00	11.65	8.35	2.395 Caution - Monitor Closely	
1,200.00	1,200.00	1,200.00	1,200.00	4.19	4.19	-0.57	20.00	-0.20	20.00	11.26	8.74	2.289 Caution - Monitor Closely	
1,300.00	1,300.00	1,300.00	1,300.00	4.38	4.38	-0.57	20.00	-0.20	20.00	10.89	9.11	2.195 Caution - Monitor Closely	
1,400.00	1,400.00	1,400.00	1,400.00	4.56	4.56	-0.57	20.00	-0.20	20.00	10.53	9.47	2.111 Caution - Monitor Closely	
1,500.00	1,500.00	1,500.00	1,500.00	4.74	4.74	-0.57	20.00	-0.20	20.00	10.18	9.82	2.036 Caution - Monitor Closely	
1,600.00	1,600.00	1,600.00	1,600.00	4.91	4.91	-0.57	20.00	-0.20	20.00	9.84	10.16	1.968 Caution - Monitor Closely	
1,700.00	1,700.00	1,700.00	1,700.00	5.08	5.08	-0.57	20.00	-0.20	20.00	9.51	10.49	1.906 Caution - Monitor Closely	
1,800.00	1,800.00	1,800.00	1,800.00	5.24	5.24	-0.57	20.00	-0.20	20.00	9.19	10.82	1.849 Caution - Monitor Closely	
1,900.00	1,900.00	1,900.00	1,900.00	5.40	5.40	-0.57	20.00	-0.20	20.00	8.87	11.13	1.797 Caution - Monitor Closely	
2,000.00	2,000.00	2,000.00	2,000.00	5.56	5.56	-0.57	20.00	-0.20	20.00	8.56	11.44	1.748 Caution - Monitor Closely, CC	
2,100.00	2,099.98	2,099.89	2,099.87	5.78	5.79	89.49	20.26	-1.92	20.26	8.54	11.72	1.729 Caution - Monitor Closely, ES, SF	
2,200.00	2,199.84	2,199.77	2,199.61	6.00	6.01	89.67	21.04	-7.08	21.04	9.07	11.97	1.757 Caution - Monitor Closely	
2,300.00	2,299.45	2,299.65	2,299.10	6.21	6.26	89.94	22.35	-15.68	22.35	10.12	12.23	1.828 Caution - Monitor Closely	
2,400.00	2,398.70	2,399.51	2,398.22	6.42	6.52	90.27	24.17	-27.70	24.17	11.69	12.48	1.937 Caution - Monitor Closely	
2,500.00	2,497.47	2,499.36	2,496.84	6.62	6.80	90.62	26.50	-43.12	26.51	13.78	12.73	2.082 Caution - Monitor Closely	
2,600.00	2,595.62	2,599.30	2,595.26	6.83	7.03	94.32	29.10	-60.28	29.20	16.21	12.99	2.248 Caution - Monitor Closely	
2,700.00	2,693.06	2,699.12	2,693.56	7.03	7.28	103.44	31.70	-77.41	32.62	19.34	13.28	2.456 Caution - Monitor Closely	
2,750.00	2,741.46	2,748.94	2,742.62	7.08	7.42	109.30	32.99	-85.97	35.01	21.57	13.44	2.604 Normal Operations	
2,800.00	2,789.76	2,798.72	2,791.65	7.12	7.55	115.00	34.29	-94.51	37.90	24.27	13.63	2.781 Normal Operations	
2,900.00	2,886.35	2,898.29	2,889.71	7.26	7.84	123.98	36.88	-111.61	44.58	30.48	14.11	3.160	
3,000.00	2,982.94	2,997.86	2,987.76	7.41	8.14	130.51	39.47	-128.70	52.07	37.46	14.61	3.565	
3,100.00	3,079.54	3,097.43	3,085.82	7.55	8.46	135.36	42.06	-145.79	60.06	44.95	15.11	3.975	
3,200.00	3,176.13	3,197.00	3,183.87	7.71	8.78	139.06	44.64	-162.88	68.37	52.76	15.62	4.378	
3,300.00	3,272.72	3,296.56	3,281.93	7.86	9.12	141.94	47.23	-179.98	76.91	60.78	16.13	4.769	
3,400.00	3,369.31	3,396.13	3,379.99	8.02	9.47	144.24	49.82	-197.07	85.60	68.95	16.64	5.143	
3,500.00	3,465.91	3,495.70	3,478.04	8.19	9.83	146.12	52.41	-214.16	94.40	77.23	17.17	5.499	
3,600.00	3,562.50	3,595.27	3,576.10	8.35	10.19	147.68	55.00	-231.26	103.28	85.59	17.70	5.836	
3,700.00	3,659.09	3,694.84	3,674.16	8.52	10.56	148.99	57.59	-248.35	112.23	94.00	18.23	6.155	
3,800.00	3,755.68	3,794.41	3,772.21	8.70	10.94	150.10	60.18	-265.44	121.23	102.45	18.78	6.456	
3,900.00	3,852.28	3,893.98	3,870.27	8.87	11.32	151.06	62.77	-282.53	130.27	110.94	19.33	6.740	
4,000.00	3,948.87	3,993.54	3,968.32	9.05	11.71	151.90	65.36	-299.63	139.34	119.45	19.88	7.007	
4,100.00	4,045.46	4,093.11	4,066.38	9.23	12.10	152.63	67.95	-316.72	148.43	127.99	20.45	7.259	
4,200.00	4,142.05	4,192.68	4,164.44	9.42	12.50	153.28	70.54	-333.81	157.55	136.54	21.02	7.497	
4,300.00	4,238.65	4,292.25	4,262.49	9.60	12.90	153.86	73.13	-350.91	166.69	145.10	21.59	7.721	
4,400.00	4,335.24	4,391.82	4,360.55	9.79	13.31	154.38	75.72	-368.00	175.84	153.67	22.17	7.932	
4,500.00	4,431.83	4,491.39	4,458.61	9.98	13.71	154.84	78.31	-385.09	185.00	162.25	22.75	8.131	
4,600.00	4,528.42	4,590.96	4,556.66	10.18	14.13	155.27	80.90	-402.19	194.17	170.83	23.34	8.319	
4,700.00	4,625.02	4,690.52	4,654.72	10.37	14.54	155.65	83.49	-419.28	203.36	179.42	23.93	8.496	
4,800.00	4,721.61	4,790.09	4,752.78	10.57	14.95	156.00	86.07	-436.37	212.55	188.02	24.53	8.664	
4,900.00	4,818.20	4,889.66	4,850.83	10.77	15.37	156.32	88.66	-453.46	221.75	196.61	25.13	8.823	

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

ConocoPhillips

Anticollision Report

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Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - TATER SALAD FEDERAL COM 904H - OWB - PWP2													Offset Site Error: 0.00 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR, 2000-r.5 MWD+IFR1, 10330-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
5,000.00	4,914.80	4,989.23	4,948.89	10.97	15.79	156.62	91.25	-470.56	230.95	205.22	25.74	8.974	
5,100.00	5,011.39	5,088.80	5,046.94	11.17	16.21	156.90	93.84	-487.65	240.16	213.82	26.34	9.117	
5,200.00	5,107.98	5,188.37	5,145.00	11.37	16.64	157.15	96.43	-504.74	249.38	222.43	26.95	9.252	
5,300.00	5,204.57	5,287.94	5,243.06	11.57	17.06	157.38	99.02	-521.84	258.60	231.03	27.57	9.381	
5,400.00	5,301.17	5,387.50	5,341.11	11.78	17.49	157.60	101.61	-538.93	267.82	239.64	28.18	9.504	
5,500.00	5,397.76	5,487.07	5,439.17	11.99	17.92	157.81	104.20	-556.02	277.05	248.25	28.80	9.620	
5,600.00	5,494.35	5,586.64	5,537.23	12.20	18.35	158.00	106.79	-573.11	286.28	256.86	29.42	9.731	
5,700.00	5,590.94	5,683.56	5,632.73	12.41	18.75	158.20	109.26	-589.45	295.79	265.78	30.02	9.854	
5,800.00	5,687.54	5,778.63	5,726.64	12.62	19.15	158.53	111.47	-604.04	306.64	276.01	30.63	10.012	
5,885.37	5,770.00	5,859.51	5,806.73	12.79	19.49	158.90	113.17	-615.24	317.04	285.90	31.14	10.180	
5,900.00	5,784.13	5,873.35	5,820.44	12.81	19.54	158.98	113.44	-617.04	318.91	287.68	31.23	10.213	
6,000.00	5,881.01	5,967.81	5,914.19	13.04	19.92	159.50	115.18	-628.48	331.61	299.76	31.84	10.413	
6,100.00	5,978.31	6,062.10	6,007.95	13.25	20.29	160.02	116.68	-638.37	344.13	311.71	32.43	10.613	
6,200.00	6,075.99	6,156.22	6,101.68	13.45	20.65	160.53	117.94	-646.73	356.49	323.50	32.99	10.807	
6,300.00	6,174.03	6,250.16	6,195.37	13.65	20.99	161.03	118.97	-653.54	368.68	335.16	33.52	10.997	
6,400.00	6,272.40	6,343.93	6,288.99	13.85	21.31	161.53	119.77	-658.83	380.70	346.67	34.03	11.186	
6,500.00	6,371.07	6,437.53	6,382.51	14.04	21.61	162.02	120.35	-662.60	392.55	358.04	34.51	11.375	
6,600.00	6,470.01	6,530.96	6,475.91	14.23	21.87	162.51	120.69	-664.85	404.23	369.28	34.94	11.568	
6,700.00	6,569.18	6,624.24	6,569.18	14.41	22.06	162.99	120.80	-665.60	415.73	380.44	35.29	11.780	
6,800.00	6,668.57	6,723.62	6,668.57	14.59	22.09	163.46	120.80	-665.60	426.34	390.81	35.52	12.001	
6,900.00	6,768.13	6,823.19	6,768.13	14.76	22.12	163.83	120.80	-665.60	435.29	399.54	35.75	12.176	
7,000.00	6,867.84	6,922.90	6,867.84	14.93	22.16	164.13	120.80	-665.60	442.59	406.63	35.96	12.307	
7,100.00	6,967.67	7,022.72	6,967.67	15.09	22.19	164.35	120.80	-665.60	448.22	412.06	36.16	12.396	
7,200.00	7,067.58	7,122.64	7,067.58	15.24	22.23	164.50	120.80	-665.60	452.18	415.84	36.34	12.443	
7,300.00	7,167.55	7,222.61	7,167.55	15.38	22.27	164.58	120.80	-665.60	454.45	417.95	36.50	12.449	
7,385.37	7,252.92	7,307.98	7,252.92	15.44	22.30	74.61	120.80	-665.60	455.07	418.47	36.60	12.434	
7,400.00	7,267.55	7,322.61	7,267.55	15.45	22.30	74.61	120.80	-665.60	455.07	418.46	36.61	12.431	
7,500.00	7,367.55	7,422.61	7,367.55	15.51	22.34	74.61	120.80	-665.60	455.07	418.36	36.71	12.397	
7,600.00	7,467.55	7,522.61	7,467.55	15.56	22.38	74.61	120.80	-665.60	455.07	418.27	36.79	12.368	
7,700.00	7,567.55	7,622.61	7,567.55	15.61	22.42	74.61	120.80	-665.60	455.07	418.19	36.88	12.340	
7,800.00	7,667.55	7,722.61	7,667.55	15.65	22.45	74.61	120.80	-665.60	455.07	418.10	36.97	12.311	
7,900.00	7,767.55	7,822.61	7,767.55	15.70	22.49	74.61	120.80	-665.60	455.07	418.01	37.05	12.282	
8,000.00	7,867.55	7,922.61	7,867.55	15.75	22.53	74.61	120.80	-665.60	455.07	417.93	37.14	12.253	
8,100.00	7,967.55	8,022.61	7,967.55	15.80	22.57	74.61	120.80	-665.60	455.07	417.84	37.23	12.224	
8,200.00	8,067.55	8,122.61	8,067.55	15.85	22.61	74.61	120.80	-665.60	455.07	417.75	37.32	12.195	
8,300.00	8,167.55	8,222.61	8,167.55	15.90	22.64	74.61	120.80	-665.60	455.07	417.66	37.41	12.166	
8,400.00	8,267.55	8,322.61	8,267.55	15.95	22.68	74.61	120.80	-665.60	455.07	417.57	37.50	12.137	
8,500.00	8,367.55	8,422.61	8,367.55	16.00	22.72	74.61	120.80	-665.60	455.07	417.48	37.59	12.107	
8,600.00	8,467.55	8,522.61	8,467.55	16.05	22.76	74.61	120.80	-665.60	455.07	417.39	37.68	12.078	
8,700.00	8,567.55	8,622.61	8,567.55	16.10	22.80	74.61	120.80	-665.60	455.07	417.30	37.77	12.049	
8,800.00	8,667.55	8,722.61	8,667.55	16.15	22.84	74.61	120.80	-665.60	455.07	417.21	37.86	12.020	
8,900.00	8,767.55	8,822.61	8,767.55	16.21	22.88	74.61	120.80	-665.60	455.07	417.12	37.95	11.991	
9,000.00	8,867.55	8,922.61	8,867.55	16.26	22.92	74.61	120.80	-665.60	455.07	417.02	38.04	11.962	
9,100.00	8,967.55	9,022.61	8,967.55	16.31	22.96	74.61	120.80	-665.60	455.07	416.93	38.14	11.933	
9,200.00	9,067.55	9,122.61	9,067.55	16.36	23.00	74.61	120.80	-665.60	455.07	416.84	38.23	11.904	
9,300.00	9,167.55	9,222.61	9,167.55	16.41	23.04	74.61	120.80	-665.60	455.07	416.74	38.32	11.874	
9,400.00	9,267.55	9,322.61	9,267.55	16.47	23.09	74.61	120.80	-665.60	455.07	416.65	38.42	11.845	
9,500.00	9,367.55	9,422.61	9,367.55	16.52	23.13	74.61	120.80	-665.60	455.07	416.55	38.51	11.816	
9,600.00	9,467.55	9,522.61	9,467.55	16.57	23.17	74.61	120.80	-665.60	455.07	416.46	38.61	11.787	
9,700.00	9,567.55	9,622.61	9,567.55	16.63	23.21	74.61	120.80	-665.60	455.07	416.36	38.70	11.758	
9,800.00	9,667.55	9,722.61	9,667.55	16.68	23.25	74.61	120.80	-665.60	455.07	416.27	38.80	11.729	

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ConocoPhillips

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Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
9,900.00	9,767.55	9,822.61	9,767.55	16.73	23.29	74.61	120.80	-665.60	455.07	416.17	38.90	11.700	
10,000.00	9,867.55	9,922.61	9,867.55	16.79	23.34	74.61	120.80	-665.60	455.07	416.07	38.99	11.671	
10,100.00	9,967.55	10,022.61	9,967.55	16.84	23.38	74.61	120.80	-665.60	455.07	415.98	39.09	11.642	
10,148.00	10,015.55	10,070.61	10,015.55	16.85	23.40	74.61	120.80	-665.60	455.07	415.94	39.12	11.632	
10,150.00	10,017.55	10,072.61	10,017.55	16.85	23.40	76.61	120.80	-665.60	455.07	415.94	39.12	11.631	
10,175.00	10,042.54	10,097.59	10,042.54	16.86	23.41	76.72	120.80	-665.60	454.89	415.73	39.16	11.616	
10,200.00	10,067.45	10,122.50	10,067.45	16.87	23.42	77.03	120.80	-665.60	454.42	415.21	39.21	11.591	
10,225.00	10,092.22	10,147.27	10,092.22	16.87	23.43	77.53	120.80	-665.60	453.67	414.40	39.27	11.552	
10,250.00	10,116.78	10,171.83	10,116.78	16.87	23.44	78.21	120.80	-665.60	452.68	413.32	39.35	11.503	
10,275.00	10,141.06	10,196.11	10,141.06	16.87	23.45	79.07	120.80	-665.60	451.47	412.02	39.45	11.443	
10,300.00	10,165.00	10,220.05	10,165.00	16.87	23.46	80.09	120.80	-665.60	450.11	410.55	39.57	11.376	
10,325.00	10,188.52	10,243.58	10,188.52	16.87	23.48	81.26	120.80	-665.60	448.66	408.97	39.70	11.302	
10,350.00	10,211.58	10,266.63	10,211.58	16.87	23.49	82.57	120.80	-665.60	447.19	407.36	39.84	11.226	
10,375.00	10,234.10	10,289.15	10,234.10	16.87	23.49	83.99	120.80	-665.60	445.79	405.81	39.98	11.150	
10,400.00	10,256.01	10,311.07	10,256.01	16.87	23.50	85.49	120.80	-665.60	444.53	404.40	40.13	11.078	
10,425.00	10,277.27	10,332.10	10,277.05	16.87	23.50	87.03	120.81	-665.60	443.53	403.26	40.27	11.014	
10,450.00	10,297.81	10,351.56	10,296.50	16.87	23.50	88.49	121.31	-665.60	442.92	402.52	40.39	10.965	
10,471.25	10,314.67	10,368.41	10,313.31	16.87	23.51	89.72	122.38	-665.60	442.75	402.25	40.49	10.934	
10,475.00	10,317.58	10,371.41	10,316.31	16.88	23.51	89.94	122.63	-665.60	442.75	402.24	40.51	10.929	
10,500.00	10,336.52	10,391.70	10,336.47	16.88	23.51	91.39	124.83	-665.60	443.06	402.44	40.63	10.906	
10,525.00	10,354.58	10,412.46	10,356.99	16.88	23.51	92.83	127.97	-665.61	443.86	403.13	40.73	10.897	
10,550.00	10,371.71	10,433.75	10,377.87	16.89	23.51	94.27	132.12	-665.61	445.17	404.34	40.83	10.903	
10,575.00	10,387.87	10,455.63	10,399.11	16.90	23.51	95.70	137.34	-665.62	446.99	406.06	40.92	10.923	
10,600.00	10,403.00	10,478.17	10,420.72	16.91	23.52	97.11	143.73	-665.63	449.32	408.31	41.01	10.957	
10,625.00	10,417.07	10,501.44	10,442.70	16.93	23.52	98.53	151.39	-665.64	452.16	411.08	41.09	11.005	
10,650.00	10,430.04	10,525.53	10,465.02	16.94	23.52	99.93	160.44	-665.65	455.51	414.35	41.16	11.066	
10,675.00	10,441.88	10,550.55	10,487.69	16.97	23.52	101.33	171.02	-665.66	459.34	418.11	41.24	11.139	
10,700.00	10,452.55	10,576.61	10,510.68	16.99	23.53	102.72	183.28	-665.67	463.64	422.33	41.31	11.223	
10,725.00	10,462.01	10,603.83	10,533.95	17.02	23.53	104.12	197.42	-665.69	468.38	426.99	41.39	11.315	
10,750.00	10,470.26	10,632.37	10,557.43	17.06	23.54	105.52	213.63	-665.71	473.51	432.03	41.48	11.414	
10,775.00	10,477.26	10,662.40	10,581.05	17.10	23.54	106.92	232.17	-665.73	478.99	437.41	41.59	11.518	
10,800.00	10,482.99	10,694.11	10,604.66	17.14	23.55	108.33	253.32	-665.76	484.77	443.06	41.71	11.623	
10,825.00	10,487.44	10,727.71	10,628.10	17.19	23.56	109.74	277.38	-665.78	490.78	448.93	41.85	11.728	
10,850.00	10,490.60	10,763.42	10,651.09	17.24	23.57	111.16	304.70	-665.82	496.94	454.94	42.01	11.829	
10,875.00	10,492.46	10,801.50	10,673.28	17.29	23.59	112.58	335.63	-665.85	503.18	460.99	42.19	11.926	
10,894.59	10,493.00	10,833.17	10,689.81	17.33	23.60	113.68	362.63	-665.88	508.05	465.70	42.35	11.997	
10,900.00	10,493.04	10,842.23	10,694.21	17.34	23.61	114.13	370.56	-665.89	509.37	466.97	42.39	12.015	
11,000.00	10,493.75	11,039.15	10,750.29	17.60	23.77	119.31	557.87	-666.11	525.78	482.61	43.17	12.180	
11,100.00	10,494.46	11,160.07	10,752.27	17.89	23.95	119.20	678.74	-666.26	528.89	485.39	43.50	12.159	
11,200.00	10,495.17	11,260.01	10,752.60	18.22	24.13	118.99	778.68	-666.37	531.65	487.79	43.86	12.122	
11,300.00	10,495.89	11,359.95	10,752.93	18.57	24.34	118.78	878.62	-666.49	534.42	490.15	44.27	12.072	
11,400.00	10,496.60	11,459.89	10,753.26	18.96	24.58	118.57	978.56	-666.61	537.20	492.46	44.74	12.008	
11,500.00	10,497.31	11,559.84	10,753.59	19.37	24.84	118.36	1,078.50	-666.73	539.98	494.73	45.25	11.933	
11,600.00	10,498.02	11,659.78	10,753.93	19.81	25.14	118.16	1,178.45	-666.85	542.77	496.95	45.82	11.846	
11,700.00	10,498.74	11,759.72	10,754.26	20.28	25.46	117.95	1,278.39	-666.96	545.57	499.13	46.43	11.750	
11,800.00	10,499.45	11,859.66	10,754.59	20.77	25.80	117.75	1,378.33	-667.08	548.37	501.28	47.09	11.644	
11,900.00	10,500.16	11,959.61	10,754.92	21.28	26.17	117.55	1,478.27	-667.20	551.18	503.38	47.80	11.531	
12,000.00	10,500.87	12,059.55	10,755.25	21.81	26.57	117.36	1,578.21	-667.32	554.00	505.45	48.55	11.411	
12,039.59	10,501.15	12,099.12	10,755.38	22.02	26.73	117.28	1,617.78	-667.36	555.12	506.26	48.85	11.363	
12,100.00	10,501.58	12,159.51	10,755.58	22.36	26.98	117.18	1,678.17	-667.43	556.26	506.92	49.33	11.275	
12,136.22	10,501.84	12,195.73	10,755.70	22.55	27.14	117.15	1,714.40	-667.48	556.40	506.77	49.62	11.212	

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - TATER SALAD FEDERAL COM 904H - OWB - PWP2												Offset Site Error:	0.00 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR, 2000-r.5 MWD+IFR1, 10330-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis	Offset Wellbore Centre	Distance	Between Centres	Between Ellipses	No-Go Distance	Separation Factor	Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
12,200.00	10,502.30	12,259.51	10,755.91	22.91	27.42	117.12	1,778.17	-667.55	556.29	506.13	50.15	11.092	
12,300.00	10,503.01	12,359.50	10,756.24	23.49	27.88	117.09	1,878.17	-667.67	556.11	505.10	51.01	10.901	
12,400.00	10,503.72	12,459.50	10,756.57	24.09	28.35	117.05	1,978.17	-667.79	555.94	504.03	51.91	10.710	
12,500.00	10,504.43	12,559.50	10,756.90	24.70	28.85	117.02	2,078.17	-667.90	555.77	502.93	52.84	10.519	
12,600.00	10,505.14	12,659.50	10,757.23	25.32	29.36	116.98	2,178.16	-668.02	555.59	501.80	53.79	10.328	
12,700.00	10,505.86	12,759.50	10,757.57	25.96	29.89	116.95	2,278.16	-668.14	555.42	500.64	54.78	10.139	
12,800.00	10,506.57	12,859.50	10,757.90	26.61	30.43	116.91	2,378.16	-668.26	555.25	499.45	55.79	9.952	
12,900.00	10,507.28	12,959.50	10,758.23	27.27	30.99	116.88	2,478.16	-668.38	555.07	498.24	56.83	9.767	
13,000.00	10,507.99	13,059.50	10,758.56	27.94	31.56	116.84	2,578.16	-668.49	554.90	497.01	57.89	9.585	
13,100.00	10,508.71	13,159.50	10,758.89	28.63	32.14	116.81	2,678.16	-668.61	554.73	495.75	58.98	9.405	
13,200.00	10,509.42	13,259.50	10,759.22	29.32	32.74	116.77	2,778.16	-668.73	554.56	494.47	60.09	9.229	
13,300.00	10,510.13	13,359.50	10,759.55	30.01	33.35	116.74	2,878.16	-668.85	554.39	493.17	61.22	9.056	
13,400.00	10,510.84	13,459.50	10,759.88	30.72	33.96	116.70	2,978.15	-668.96	554.21	491.85	62.37	8.886	
13,500.00	10,511.55	13,559.50	10,760.21	31.43	34.59	116.67	3,078.15	-669.08	554.04	490.51	63.53	8.720	
13,600.00	10,512.27	13,659.50	10,760.54	32.16	35.23	116.63	3,178.15	-669.20	553.87	489.15	64.72	8.558	
13,700.00	10,512.98	13,759.49	10,760.87	32.88	35.88	116.60	3,278.15	-669.32	553.70	487.78	65.92	8.399	
13,800.00	10,513.69	13,859.49	10,761.21	33.62	36.54	116.56	3,378.15	-669.43	553.53	486.39	67.14	8.244	
13,900.00	10,514.40	13,959.49	10,761.54	34.35	37.20	116.53	3,478.15	-669.55	553.36	484.98	68.37	8.093	
14,000.00	10,515.12	14,059.49	10,761.87	35.10	37.87	116.49	3,578.15	-669.67	553.19	483.57	69.62	7.946	
14,100.00	10,515.83	14,159.49	10,762.20	35.85	38.55	116.46	3,678.14	-669.79	553.02	482.13	70.88	7.802	
14,200.00	10,516.54	14,259.49	10,762.53	36.60	39.24	116.42	3,778.14	-669.91	552.85	480.69	72.16	7.662	
14,300.00	10,517.25	14,359.49	10,762.86	37.36	39.94	116.38	3,878.14	-670.02	552.68	479.23	73.45	7.525	
14,400.00	10,517.96	14,459.49	10,763.19	38.12	40.64	116.35	3,978.14	-670.14	552.51	477.76	74.74	7.392	
14,500.00	10,518.68	14,559.49	10,763.52	38.89	41.34	116.31	4,078.14	-670.26	552.34	476.29	76.05	7.262	
14,600.00	10,519.39	14,659.49	10,763.85	39.66	42.05	116.28	4,178.14	-670.38	552.17	474.80	77.37	7.136	
14,700.00	10,520.10	14,759.49	10,764.18	40.43	42.77	116.24	4,278.14	-670.49	552.00	473.30	78.71	7.014	
14,800.00	10,520.81	14,859.49	10,764.51	41.21	43.49	116.21	4,378.14	-670.61	551.83	471.79	80.05	6.894	
14,900.00	10,521.53	14,959.49	10,764.85	41.99	44.22	116.17	4,478.13	-670.73	551.66	470.27	81.39	6.778	
15,000.00	10,522.24	15,059.49	10,765.18	42.77	44.95	116.14	4,578.13	-670.85	551.50	468.74	82.75	6.664	
15,100.00	10,522.95	15,159.48	10,765.51	43.56	45.69	116.10	4,678.13	-670.97	551.33	467.21	84.12	6.554	
15,200.00	10,523.66	15,259.48	10,765.84	44.35	46.43	116.07	4,778.13	-671.08	551.16	465.67	85.49	6.447	
15,300.00	10,524.37	15,359.48	10,766.17	45.14	47.17	116.03	4,878.13	-671.20	550.99	464.12	86.88	6.342	
15,400.00	10,525.09	15,459.48	10,766.50	45.93	47.92	115.99	4,978.13	-671.32	550.83	462.56	88.27	6.240	
15,500.00	10,525.80	15,559.48	10,766.83	46.72	48.67	115.96	5,078.13	-671.44	550.66	460.99	89.66	6.141	
15,600.00	10,526.51	15,659.48	10,767.16	47.52	49.42	115.92	5,178.12	-671.55	550.49	459.42	91.07	6.045	
15,700.00	10,527.22	15,759.48	10,767.49	48.32	50.18	115.89	5,278.12	-671.67	550.32	457.85	92.48	5.951	
15,800.00	10,527.94	15,859.48	10,767.82	49.12	50.94	115.85	5,378.12	-671.79	550.16	456.26	93.89	5.859	
15,900.00	10,528.65	15,959.48	10,768.15	49.93	51.71	115.82	5,478.12	-671.91	549.99	454.68	95.32	5.770	
16,000.00	10,529.36	16,059.48	10,768.49	50.73	52.48	115.78	5,578.12	-672.02	549.83	453.08	96.74	5.683	
16,100.00	10,530.07	16,159.48	10,768.82	51.54	53.25	115.74	5,678.12	-672.14	549.66	451.48	98.18	5.599	
16,200.00	10,530.78	16,259.48	10,769.15	52.35	54.02	115.71	5,778.12	-672.26	549.49	449.88	99.62	5.516	
16,300.00	10,531.50	16,359.48	10,769.48	53.16	54.79	115.67	5,878.12	-672.38	549.33	448.27	101.06	5.436	
16,400.00	10,532.21	16,459.47	10,769.81	53.97	55.57	115.64	5,978.11	-672.50	549.16	446.65	102.51	5.357	
16,500.00	10,532.92	16,559.47	10,770.14	54.78	56.35	115.60	6,078.11	-672.61	549.00	445.04	103.96	5.281	
16,600.00	10,533.63	16,659.47	10,770.47	55.59	57.13	115.56	6,178.11	-672.73	548.83	443.41	105.42	5.206	
16,700.00	10,534.34	16,759.47	10,770.80	56.41	57.92	115.53	6,278.11	-672.85	548.67	441.79	106.88	5.133	
16,800.00	10,535.06	16,859.47	10,771.13	57.23	58.70	115.49	6,378.11	-672.97	548.50	440.15	108.35	5.062	
16,900.00	10,535.77	16,959.47	10,771.46	58.04	59.49	115.46	6,478.11	-673.08	548.34	438.52	109.82	4.993	
17,000.00	10,536.48	17,059.47	10,771.80	58.86	60.28	115.42	6,578.11	-673.20	548.18	436.88	111.30	4.925	
17,100.00	10,537.19	17,159.47	10,772.13	59.68	61.07	115.38	6,678.10	-673.32	548.01	435.24	112.78	4.859	
17,200.00	10,537.91	17,259.47	10,772.46	60.50	61.87	115.35	6,778.10	-673.44	547.85	433.59	114.26	4.795	

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: TATER SALAD & MOMBA FEDERAL - TATER SALAD FEDERAL COM 904H - OWB - PWP2												Offset Site Error:	0.00 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR, 2000-r.5 MWD+IFR1, 10330-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
17,300.00	10,538.62	17,359.47	10,772.79	61.32	62.66	115.31	6,878.10	-673.56	547.69	431.94	115.74	4.732	
17,400.00	10,539.33	17,459.47	10,773.12	62.15	63.46	115.28	6,978.10	-673.67	547.52	430.29	117.23	4.670	
17,500.00	10,540.04	17,559.47	10,773.45	62.97	64.26	115.24	7,078.10	-673.79	547.36	428.63	118.73	4.610	
17,600.00	10,540.75	17,659.47	10,773.78	63.79	65.06	115.20	7,178.10	-673.91	547.20	426.97	120.22	4.552	
17,700.00	10,541.47	17,759.47	10,774.11	64.62	65.86	115.17	7,278.10	-674.03	547.04	425.31	121.72	4.494	
17,800.00	10,542.18	17,859.46	10,774.44	65.45	66.66	115.13	7,378.09	-674.14	546.87	423.65	123.23	4.438	
17,900.00	10,542.89	17,959.46	10,774.77	66.27	67.47	115.10	7,478.09	-674.26	546.71	421.98	124.73	4.383	
18,000.00	10,543.60	18,059.46	10,775.10	67.10	68.27	115.06	7,578.09	-674.38	546.55	420.31	126.24	4.329	
18,100.00	10,544.32	18,159.46	10,775.44	67.93	69.08	115.02	7,678.09	-674.50	546.39	418.64	127.75	4.277	
18,200.00	10,545.03	18,259.46	10,775.77	68.76	69.89	114.99	7,778.09	-674.62	546.23	416.96	129.27	4.226	
18,300.00	10,545.74	18,359.46	10,776.10	69.59	70.70	114.95	7,878.09	-674.73	546.07	415.28	130.78	4.175	
18,400.00	10,546.45	18,459.46	10,776.43	70.42	71.51	114.92	7,978.09	-674.85	545.90	413.60	132.30	4.126	
18,500.00	10,547.16	18,559.46	10,776.76	71.25	72.32	114.88	8,078.09	-674.97	545.74	411.92	133.82	4.078	
18,600.00	10,547.88	18,659.46	10,777.09	72.08	73.13	114.84	8,178.08	-675.09	545.58	410.24	135.35	4.031	
18,700.00	10,548.59	18,759.46	10,777.42	72.91	73.94	114.81	8,278.08	-675.20	545.42	408.55	136.87	3.985	
18,800.00	10,549.30	18,859.46	10,777.75	73.75	74.76	114.77	8,378.08	-675.32	545.26	406.86	138.40	3.940	
18,900.00	10,550.01	18,959.46	10,778.08	74.58	75.57	114.73	8,478.08	-675.44	545.10	405.17	139.94	3.895	
19,000.00	10,550.73	19,059.46	10,778.41	75.41	76.39	114.70	8,578.08	-675.56	544.94	403.47	141.47	3.852	
19,100.00	10,551.44	19,159.46	10,778.74	76.25	77.21	114.66	8,678.08	-675.67	544.78	401.78	143.01	3.810	
19,200.00	10,552.15	19,259.45	10,779.08	77.08	78.02	114.62	8,778.08	-675.79	544.62	400.08	144.54	3.768	
19,300.00	10,552.86	19,359.45	10,779.41	77.92	78.84	114.59	8,878.07	-675.91	544.47	398.38	146.08	3.727	
19,400.00	10,553.57	19,459.45	10,779.74	78.75	79.66	114.55	8,978.07	-676.03	544.31	396.68	147.63	3.687	
19,500.00	10,554.29	19,559.45	10,780.07	79.59	80.48	114.51	9,078.07	-676.15	544.15	394.98	149.17	3.648	
19,600.00	10,555.00	19,659.45	10,780.40	80.43	81.30	114.48	9,178.07	-676.26	543.99	393.27	150.72	3.609	
19,700.00	10,555.71	19,759.45	10,780.73	81.26	82.13	114.44	9,278.07	-676.38	543.83	391.57	152.27	3.572	
19,800.00	10,556.42	19,859.45	10,781.06	82.10	82.95	114.41	9,378.07	-676.50	543.67	389.86	153.82	3.535	
19,900.00	10,557.14	19,959.45	10,781.39	82.94	83.77	114.37	9,478.07	-676.62	543.52	388.15	155.37	3.498	
20,000.00	10,557.85	20,059.45	10,781.72	83.78	84.60	114.33	9,578.07	-676.73	543.36	386.44	156.92	3.463	
20,100.00	10,558.56	20,159.45	10,782.05	84.62	85.42	114.30	9,678.06	-676.85	543.20	384.73	158.48	3.428	
20,200.00	10,559.27	20,259.45	10,782.39	85.46	86.25	114.26	9,778.06	-676.97	543.05	383.01	160.03	3.393	
20,300.00	10,559.98	20,359.45	10,782.72	86.30	87.07	114.22	9,878.06	-677.09	542.89	381.30	161.59	3.360	
20,400.00	10,560.70	20,459.45	10,783.05	87.14	87.90	114.19	9,978.06	-677.21	542.73	379.58	163.15	3.327	
20,500.00	10,561.41	20,559.45	10,783.38	87.98	88.73	114.15	10,078.06	-677.32	542.58	377.86	164.72	3.294	
20,600.00	10,562.12	20,659.44	10,783.71	88.82	89.55	114.11	10,178.06	-677.44	542.42	376.14	166.28	3.262	
20,700.00	10,562.83	20,759.44	10,784.04	89.66	90.38	114.07	10,278.06	-677.56	542.26	374.42	167.84	3.231	
20,800.00	10,563.54	20,859.44	10,784.37	90.50	91.21	114.04	10,378.05	-677.68	542.11	372.70	169.41	3.200	
20,900.00	10,564.26	20,959.44	10,784.70	91.34	92.04	114.00	10,478.05	-677.79	541.95	370.97	170.98	3.170	
20,991.54	10,564.91	21,050.14	10,785.00	92.11	92.79	113.97	10,568.75	-677.90	541.81	369.42	172.40	3.143	
21,000.00	10,564.97	21,050.14	10,785.00	92.18	92.79	113.97	10,568.75	-677.90	541.88	369.55	172.32	3.145	
21,004.34	10,565.00	21,050.14	10,785.00	92.22	92.79	113.97	10,568.75	-677.90	541.96	369.69	172.27	3.146	
21,004.86	10,565.00	21,050.14	10,785.00	92.23	92.79	113.97	10,568.75	-677.90	541.98	369.68	172.30	3.146	

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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Reference Depths are relative to RKB=32ft @ 2945.00usft

Offset Depths are relative to Offset Datum

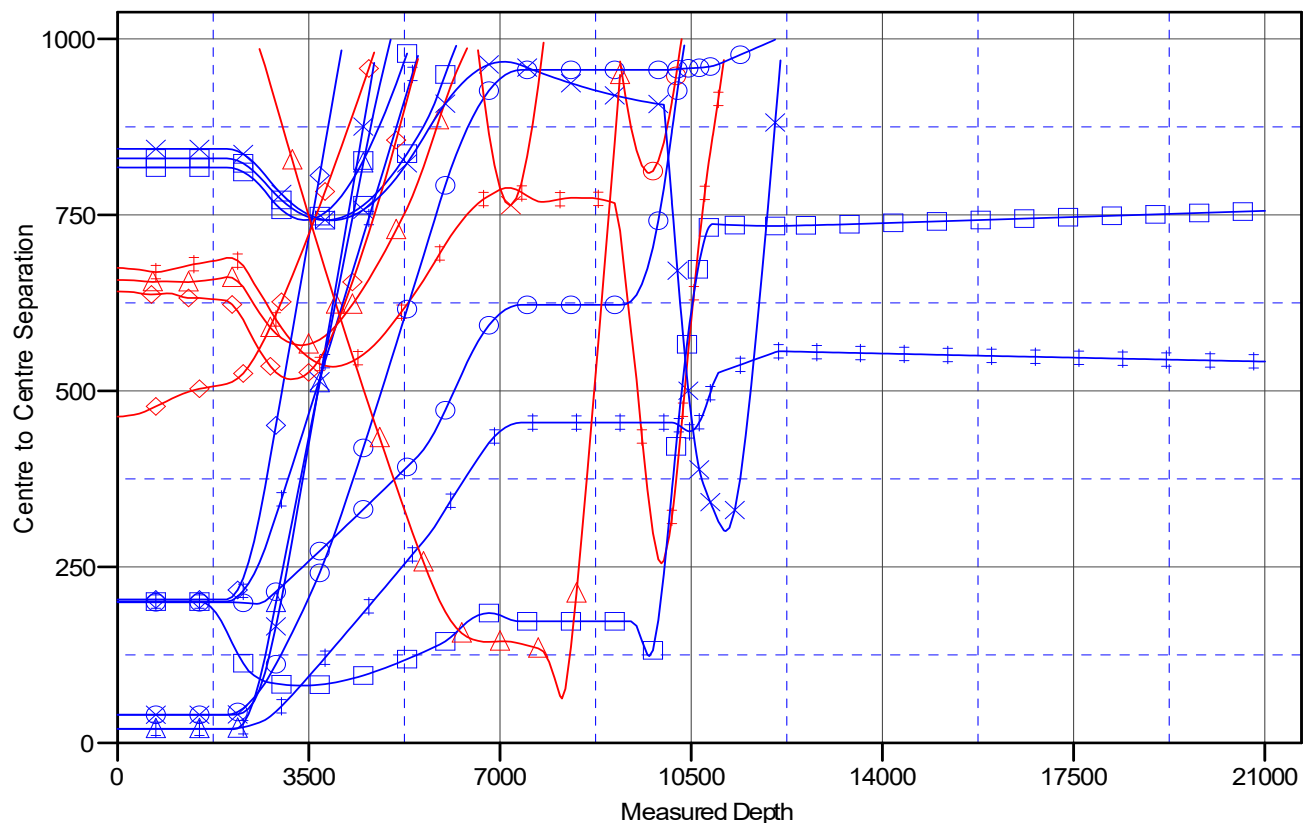
Central Meridian is 104° 20' 0.00W W

Coordinates are relative to: TATER SALAD FEDERAL COM 905H

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

Grid Convergence at Surface is: 0.16°

Ladder Plot



LEGEND

MOMBA FEDERAL COM 702H, OWB, AWP V0	TATER SALAD FEDERAL COM 702H, OWB, PWP2 V0	TATER SALAD FEDERAL COM 703H, OWB, PWP2 V0
MOMBA FEDERAL COM 703H, OWB, AWP V0	TATER SALAD FEDERAL COM 704H, OWB, PWP2 V0	MOMBA FEDERAL COM 701H, OWB, AWP V0
MOMBA FEDERAL COM 901H, OWB, PWP1 V0	TATER SALAD FEDERAL COM 903H, OWB, PWP2 V0	MOMBA FEDERAL COM 903H, OWB, PWP2 V0
MOMBA FEDERAL COM 902H, OWB, PWP2 V0	MOMBA 24 FEDERAL COM 1H(P&A), OWB, AWP V0	MOMBA 24 FEDERAL COM 3H, OWB, AWP V0
TATER SALAD FEDERAL COM 701H, OWB, PWP2 V0	TATER SALAD FEDERAL COM 901H, OWB, PWP2 V0	COTTONMOUTH 13 FEDERAL COM 1H, OWB, AWP V0
DELAWARE RANCH 13 24 WCN FEDERAL COM 1H, OWB, AWP V0	TATER SALAD FEDERAL COM 904H, OWB, PWP2 V0	TATER SALAD FEDERAL COM 902H, OWB, PWP2 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 TATER SALAD FEDERAL COM 905H
Project:	ATLAS PROSPECT_NME	TVD Reference:	RKB=32ft @ 2945.00usft
Reference Site:	TATER SALAD & MOMBA FEDERAL	MD Reference:	RKB=32ft @ 2945.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Reference Depths are relative to RKB=32ft @ 2945.00usft

Offset Depths are relative to Offset Datum

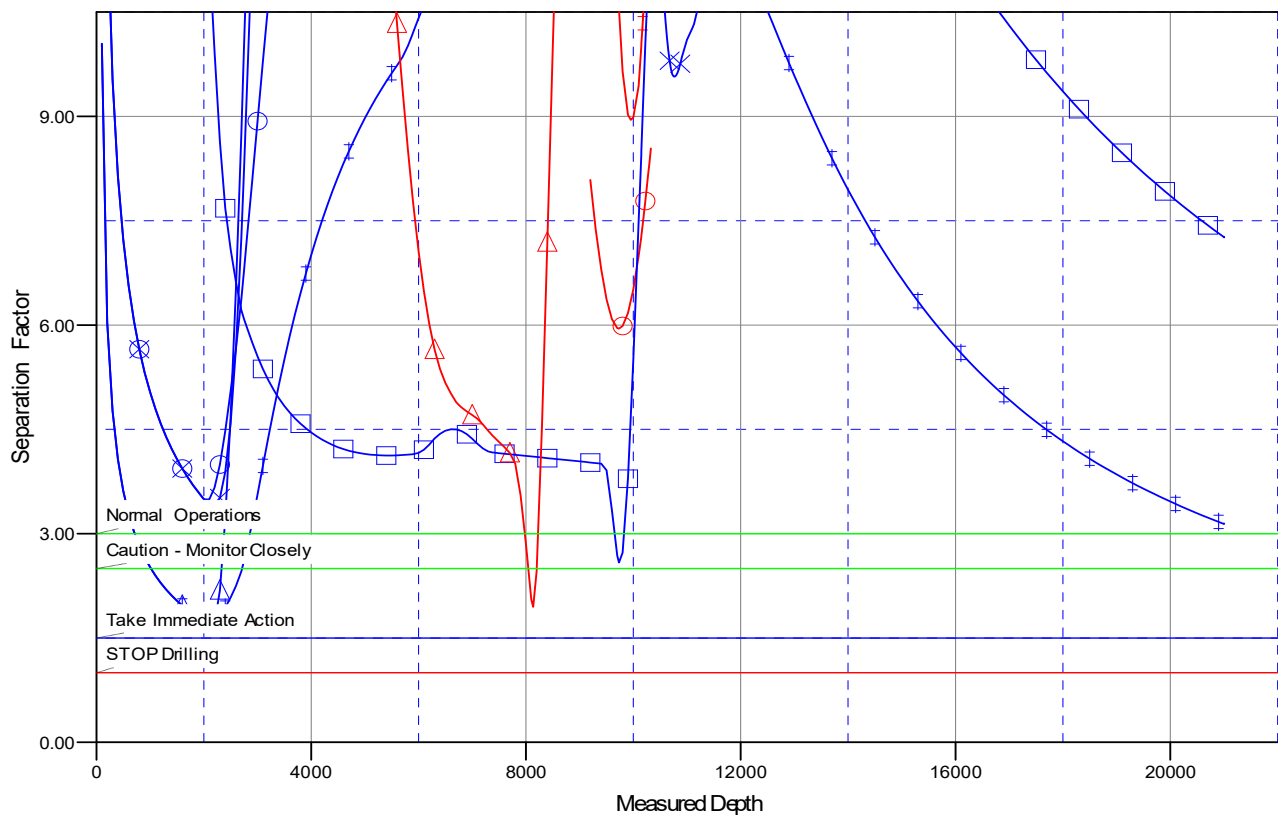
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: TATER SALAD FEDERAL COM 905H

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

Grid Convergence at Surface is: 0.16°

Separation Factor Plot



LEGEND

MOMBA FEDERAL COM 702H, OWB, AWP V0	TATER SALAD FEDERAL COM 702H, OWB, PWP2 V0	TATER SALAD FEDERAL COM 703H, OWB, PWP2 V0
MOMBA FEDERAL COM 703H, OWB, AWP V0	TATER SALAD FEDERAL COM 704H, OWB, PWP2 V0	MOMBA FEDERAL COM 701H, OWB, AWP V0
MOMBA FEDERAL COM 901H, OWB, PWP1 V0	TATER SALAD FEDERAL COM 903H, OWB, PWP2 V0	MOMBA FEDERAL COM 903H, OWB, PWP2 V0
MOMBA FEDERAL COM 902H, OWB, PWP2 V0	MOMBA 24 FEDERAL COM 1H (P&A), OWB, AWP V0	MOMBA 24 FEDERAL COM 3H, OWB, AWP V0
TATER SALAD FEDERAL COM 701H, OWB, PWP2 V0	TATER SALAD FEDERAL COM 901H, OWB, PWP2 V0	COTTONMOUTH 13 FEDERAL COM 1H, OWB, AWP V0
DELAWARE RANCH 13 24 WCN FEDERAL COM 1H, OWB, AWP V0	TATER SALAD FEDERAL COM 904H, OWB, PWP2 V0	TATER SALAD FEDERAL COM 902H, OWB, PWP2 V0

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

DELAWARE BASIN WEST

**ATLAS PROSPECT_NME
TATER SALAD & MOMBA FEDERAL
TATER SALAD FEDERAL COM 905H
300155731500
OWB**

Plan: PWP2

Standard Planning Report

03 February, 2026

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well TATER SALAD FEDERAL COM 905H
Company:	DELAWARE BASIN WEST	TVD Reference:	RKB=32ft @ 2945.00usft
Project:	ATLAS PROSPECT_NME	MD Reference:	RKB=32ft @ 2945.00usft
Site:	TATER SALAD & MOMBA FEDERAL	North Reference:	Grid
Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP2		

Project	ATLAS PROSPECT_NME		
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	TATER SALAD & MOMBA FEDERAL		
Site Position:		Northing:	376,681.58 usft
From:	Map	Easting:	593,463.23 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 2' 6.913 N
		Longitude:	104° 1' 54.189 W

Well	TATER SALAD FEDERAL COM 905H					
Well Position	+N/-S	0.00 usft	Northing:	376,449.40 usft	Latitude:	32° 2' 4.646 N
	+E/-W	0.00 usft	Easting:	592,315.30 usft	Longitude:	104° 2' 7.532 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	2,913.00 usft
Grid Convergence:		0.16 °				

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2025	5/1/2026	6.38	59.49	46,995.18611035

Design	PWP2				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	353.66	

Plan Survey Tool Program	Date	2/3/2026			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	2,000.00	PWP2 (OWB)	r.5 MWD+IFR1+SAG+FDIR OWSG MWD + IFR1 + SAG +	
2	2,000.00	10,148.00	PWP2 (OWB)	r.5 MWD+IFR1+SAG+FDIR OWSG MWD + IFR1 + SAG +	
3	10,148.00	21,004.34	PWP2 (OWB)	r.5 MWD+IFR1+SAG+FDIR OWSG MWD + IFR1 + SAG +	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well TATER SALAD FEDERAL COM 905H
Company:	DELAWARE BASIN WEST	TVD Reference:	RKB=32ft @ 2945.00usft
Project:	ATLAS PROSPECT_NME	MD Reference:	RKB=32ft @ 2945.00usft
Site:	TATER SALAD & MOMBA FEDERAL	North Reference:	Grid
Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP2		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,750.00	15.00	270.00	2,741.46	0.00	-97.62	2.00	2.00	0.00	270.00	
5,885.37	15.00	270.00	5,770.00	0.00	-909.11	0.00	0.00	0.00	0.00	
7,385.37	0.00	0.00	7,252.92	0.00	-1,104.34	1.00	-1.00	0.00	180.00	
10,148.00	0.00	0.00	10,015.55	0.00	-1,104.34	0.00	0.00	0.00	0.00	
10,894.59	89.59	358.00	10,493.00	473.77	-1,120.88	12.00	12.00	0.00	358.00	
12,039.59	89.59	358.00	10,501.15	1,618.04	-1,160.84	0.00	0.00	0.00	0.00	
12,136.22	89.59	359.93	10,501.84	1,714.65	-1,162.59	2.00	0.00	2.00	90.01	
21,004.34	89.59	359.93	10,565.00	10,582.54	-1,173.01	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well TATER SALAD FEDERAL COM 905H
Company:	DELAWARE BASIN WEST	TVD Reference:	RKB=32ft @ 2945.00usft
Project:	ATLAS PROSPECT_NME	MD Reference:	RKB=32ft @ 2945.00usft
Site:	TATER SALAD & MOMBA FEDERAL	North Reference:	Grid
Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	2.00	270.00	2,099.98	0.00	-1.75	0.19	2.00	2.00	0.00
2,200.00	4.00	270.00	2,199.84	0.00	-6.98	0.77	2.00	2.00	0.00
2,300.00	6.00	270.00	2,299.45	0.00	-15.69	1.73	2.00	2.00	0.00
2,400.00	8.00	270.00	2,398.70	0.00	-27.88	3.08	2.00	2.00	0.00
2,500.00	10.00	270.00	2,497.47	0.00	-43.52	4.80	2.00	2.00	0.00
2,600.00	12.00	270.00	2,595.62	0.00	-62.60	6.91	2.00	2.00	0.00
2,700.00	14.00	270.00	2,693.06	0.00	-85.10	9.39	2.00	2.00	0.00
2,750.00	15.00	270.00	2,741.46	0.00	-97.62	10.77	2.00	2.00	0.00
2,800.00	15.00	270.00	2,789.76	0.00	-110.56	12.20	0.00	0.00	0.00
2,900.00	15.00	270.00	2,886.35	0.00	-136.44	15.06	0.00	0.00	0.00
3,000.00	15.00	270.00	2,982.94	0.00	-162.32	17.91	0.00	0.00	0.00
3,100.00	15.00	270.00	3,079.54	0.00	-188.20	20.77	0.00	0.00	0.00
3,200.00	15.00	270.00	3,176.13	0.00	-214.08	23.63	0.00	0.00	0.00
3,300.00	15.00	270.00	3,272.72	0.00	-239.97	26.48	0.00	0.00	0.00
3,400.00	15.00	270.00	3,369.31	0.00	-265.85	29.34	0.00	0.00	0.00
3,500.00	15.00	270.00	3,465.91	0.00	-291.73	32.20	0.00	0.00	0.00
3,600.00	15.00	270.00	3,562.50	0.00	-317.61	35.05	0.00	0.00	0.00
3,700.00	15.00	270.00	3,659.09	0.00	-343.49	37.91	0.00	0.00	0.00
3,800.00	15.00	270.00	3,755.68	0.00	-369.38	40.77	0.00	0.00	0.00
3,900.00	15.00	270.00	3,852.28	0.00	-395.26	43.62	0.00	0.00	0.00
4,000.00	15.00	270.00	3,948.87	0.00	-421.14	46.48	0.00	0.00	0.00
4,100.00	15.00	270.00	4,045.46	0.00	-447.02	49.34	0.00	0.00	0.00
4,200.00	15.00	270.00	4,142.05	0.00	-472.90	52.19	0.00	0.00	0.00
4,300.00	15.00	270.00	4,238.65	0.00	-498.78	55.05	0.00	0.00	0.00
4,400.00	15.00	270.00	4,335.24	0.00	-524.67	57.91	0.00	0.00	0.00
4,500.00	15.00	270.00	4,431.83	0.00	-550.55	60.76	0.00	0.00	0.00
4,600.00	15.00	270.00	4,528.42	0.00	-576.43	63.62	0.00	0.00	0.00
4,700.00	15.00	270.00	4,625.02	0.00	-602.31	66.48	0.00	0.00	0.00
4,800.00	15.00	270.00	4,721.61	0.00	-628.19	69.33	0.00	0.00	0.00
4,900.00	15.00	270.00	4,818.20	0.00	-654.08	72.19	0.00	0.00	0.00
5,000.00	15.00	270.00	4,914.80	0.00	-679.96	75.04	0.00	0.00	0.00
5,100.00	15.00	270.00	5,011.39	0.00	-705.84	77.90	0.00	0.00	0.00
5,200.00	15.00	270.00	5,107.98	0.00	-731.72	80.76	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well TATER SALAD FEDERAL COM 905H
Company:	DELAWARE BASIN WEST	TVD Reference:	RKB=32ft @ 2945.00usft
Project:	ATLAS PROSPECT_NME	MD Reference:	RKB=32ft @ 2945.00usft
Site:	TATER SALAD & MOMBA FEDERAL	North Reference:	Grid
Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP2		

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)	
5,300.00	15.00	270.00	5,204.57	0.00	-757.60	83.61	0.00	0.00	0.00	
5,400.00	15.00	270.00	5,301.17	0.00	-783.49	86.47	0.00	0.00	0.00	
5,500.00	15.00	270.00	5,397.76	0.00	-809.37	89.33	0.00	0.00	0.00	
5,600.00	15.00	270.00	5,494.35	0.00	-835.25	92.18	0.00	0.00	0.00	
5,700.00	15.00	270.00	5,590.94	0.00	-861.13	95.04	0.00	0.00	0.00	
5,800.00	15.00	270.00	5,687.54	0.00	-887.01	97.90	0.00	0.00	0.00	
5,885.37	15.00	270.00	5,770.00	0.00	-909.11	100.34	0.00	0.00	0.00	
5,900.00	14.85	270.00	5,784.13	0.00	-912.88	100.75	1.00	-1.00	0.00	
6,000.00	13.85	270.00	5,881.01	0.00	-937.67	103.49	1.00	-1.00	0.00	
6,100.00	12.85	270.00	5,978.31	0.00	-960.76	106.04	1.00	-1.00	0.00	
6,200.00	11.85	270.00	6,075.99	0.00	-982.16	108.40	1.00	-1.00	0.00	
6,300.00	10.85	270.00	6,174.03	0.00	-1,001.84	110.57	1.00	-1.00	0.00	
6,400.00	9.85	270.00	6,272.40	0.00	-1,019.82	112.55	1.00	-1.00	0.00	
6,500.00	8.85	270.00	6,371.07	0.00	-1,036.07	114.35	1.00	-1.00	0.00	
6,600.00	7.85	270.00	6,470.01	0.00	-1,050.60	115.95	1.00	-1.00	0.00	
6,700.00	6.85	270.00	6,569.18	0.00	-1,063.40	117.36	1.00	-1.00	0.00	
6,800.00	5.85	270.00	6,668.57	0.00	-1,074.46	118.58	1.00	-1.00	0.00	
6,900.00	4.85	270.00	6,768.13	0.00	-1,083.79	119.61	1.00	-1.00	0.00	
7,000.00	3.85	270.00	6,867.84	0.00	-1,091.39	120.45	1.00	-1.00	0.00	
7,100.00	2.85	270.00	6,967.67	0.00	-1,097.23	121.10	1.00	-1.00	0.00	
7,200.00	1.85	270.00	7,067.58	0.00	-1,101.34	121.55	1.00	-1.00	0.00	
7,300.00	0.85	270.00	7,167.55	0.00	-1,103.70	121.81	1.00	-1.00	0.00	
7,385.37	0.00	0.00	7,252.92	0.00	-1,104.34	121.88	1.00	-1.00	0.00	
7,400.00	0.00	0.00	7,267.55	0.00	-1,104.34	121.88	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,367.55	0.00	-1,104.34	121.88	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,467.55	0.00	-1,104.34	121.88	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,567.55	0.00	-1,104.34	121.88	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,667.55	0.00	-1,104.34	121.88	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,767.55	0.00	-1,104.34	121.88	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,867.55	0.00	-1,104.34	121.88	0.00	0.00	0.00	
8,100.00	0.00	0.00	7,967.55	0.00	-1,104.34	121.88	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,067.55	0.00	-1,104.34	121.88	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,167.55	0.00	-1,104.34	121.88	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,267.55	0.00	-1,104.34	121.88	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,367.55	0.00	-1,104.34	121.88	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,467.55	0.00	-1,104.34	121.88	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,567.55	0.00	-1,104.34	121.88	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,667.55	0.00	-1,104.34	121.88	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,767.55	0.00	-1,104.34	121.88	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,867.55	0.00	-1,104.34	121.88	0.00	0.00	0.00	
9,100.00	0.00	0.00	8,967.55	0.00	-1,104.34	121.88	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,067.55	0.00	-1,104.34	121.88	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,167.55	0.00	-1,104.34	121.88	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,267.55	0.00	-1,104.34	121.88	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,367.55	0.00	-1,104.34	121.88	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,467.55	0.00	-1,104.34	121.88	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,567.55	0.00	-1,104.34	121.88	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,667.55	0.00	-1,104.34	121.88	0.00	0.00	0.00	
9,900.00	0.00	0.00	9,767.55	0.00	-1,104.34	121.88	0.00	0.00	0.00	
10,000.00	0.00	0.00	9,867.55	0.00	-1,104.34	121.88	0.00	0.00	0.00	
10,100.00	0.00	0.00	9,967.55	0.00	-1,104.34	121.88	0.00	0.00	0.00	
10,148.00	0.00	0.00	10,015.55	0.00	-1,104.34	121.88	0.00	0.00	0.00	
10,150.00	0.24	358.00	10,017.55	0.00	-1,104.34	121.89	12.00	12.00	0.00	
10,175.00	3.24	358.00	10,042.54	0.76	-1,104.37	122.64	12.00	12.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well TATER SALAD FEDERAL COM 905H
Company:	DELAWARE BASIN WEST	TVD Reference:	RKB=32ft @ 2945.00usft
Project:	ATLAS PROSPECT_NME	MD Reference:	RKB=32ft @ 2945.00usft
Site:	TATER SALAD & MOMBA FEDERAL	North Reference:	Grid
Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP2		

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)	
10,200.00	6.24	358.00	10,067.45	2.83	-1,104.44	124.70	12.00	12.00	0.00	
10,225.00	9.24	358.00	10,092.22	6.19	-1,104.56	128.06	12.00	12.00	0.00	
10,250.00	12.24	358.00	10,116.78	10.85	-1,104.72	132.70	12.00	12.00	0.00	
10,275.00	15.24	358.00	10,141.06	16.78	-1,104.93	138.62	12.00	12.00	0.00	
10,300.00	18.24	358.00	10,165.00	23.98	-1,105.18	145.80	12.00	12.00	0.00	
10,325.00	21.24	358.00	10,188.52	32.41	-1,105.47	154.22	12.00	12.00	0.00	
10,350.00	24.24	358.00	10,211.58	42.07	-1,105.81	163.86	12.00	12.00	0.00	
10,375.00	27.24	358.00	10,234.10	52.92	-1,106.19	174.68	12.00	12.00	0.00	
10,400.00	30.24	358.00	10,256.01	64.93	-1,106.61	186.67	12.00	12.00	0.00	
10,425.00	33.24	358.00	10,277.27	78.07	-1,107.07	199.78	12.00	12.00	0.00	
10,450.00	36.24	358.00	10,297.81	92.31	-1,107.56	213.98	12.00	12.00	0.00	
10,475.00	39.24	358.00	10,317.58	107.60	-1,108.10	229.24	12.00	12.00	0.00	
10,500.00	42.24	358.00	10,336.52	123.91	-1,108.67	245.51	12.00	12.00	0.00	
10,525.00	45.24	358.00	10,354.58	141.18	-1,109.27	262.74	12.00	12.00	0.00	
10,550.00	48.24	358.00	10,371.71	159.37	-1,109.91	280.89	12.00	12.00	0.00	
10,575.00	51.24	358.00	10,387.87	178.44	-1,110.57	299.91	12.00	12.00	0.00	
10,600.00	54.24	358.00	10,403.00	198.32	-1,111.27	319.75	12.00	12.00	0.00	
10,625.00	57.24	358.00	10,417.07	218.97	-1,111.99	340.35	12.00	12.00	0.00	
10,650.00	60.24	358.00	10,430.04	240.32	-1,112.73	361.66	12.00	12.00	0.00	
10,675.00	63.24	358.00	10,441.88	262.33	-1,113.50	383.62	12.00	12.00	0.00	
10,700.00	66.24	358.00	10,452.55	284.92	-1,114.29	406.16	12.00	12.00	0.00	
10,725.00	69.24	358.00	10,462.01	308.04	-1,115.10	429.23	12.00	12.00	0.00	
10,750.00	72.24	358.00	10,470.26	331.62	-1,115.92	452.76	12.00	12.00	0.00	
10,775.00	75.24	358.00	10,477.26	355.61	-1,116.76	476.69	12.00	12.00	0.00	
10,800.00	78.24	358.00	10,482.99	379.92	-1,117.61	500.95	12.00	12.00	0.00	
10,825.00	81.24	358.00	10,487.44	404.50	-1,118.47	525.47	12.00	12.00	0.00	
10,850.00	84.24	358.00	10,490.60	429.29	-1,119.33	550.20	12.00	12.00	0.00	
10,875.00	87.24	358.00	10,492.46	454.20	-1,120.20	575.06	12.00	12.00	0.00	
10,894.59	89.59	358.00	10,493.00	473.77	-1,120.88	594.59	12.00	12.00	0.00	
10,900.00	89.59	358.00	10,493.04	479.17	-1,121.07	599.98	0.00	0.00	0.00	
11,000.00	89.59	358.00	10,493.75	579.11	-1,124.56	699.69	0.00	0.00	0.00	
11,100.00	89.59	358.00	10,494.46	679.05	-1,128.05	799.40	0.00	0.00	0.00	
11,200.00	89.59	358.00	10,495.17	778.98	-1,131.54	899.11	0.00	0.00	0.00	
11,300.00	89.59	358.00	10,495.89	878.92	-1,135.03	998.82	0.00	0.00	0.00	
11,400.00	89.59	358.00	10,496.60	978.86	-1,138.52	1,098.53	0.00	0.00	0.00	
11,500.00	89.59	358.00	10,497.31	1,078.79	-1,142.01	1,198.24	0.00	0.00	0.00	
11,600.00	89.59	358.00	10,498.02	1,178.73	-1,145.50	1,297.95	0.00	0.00	0.00	
11,700.00	89.59	358.00	10,498.74	1,278.67	-1,148.99	1,397.67	0.00	0.00	0.00	
11,800.00	89.59	358.00	10,499.45	1,378.60	-1,152.48	1,497.38	0.00	0.00	0.00	
11,900.00	89.59	358.00	10,500.16	1,478.54	-1,155.97	1,597.09	0.00	0.00	0.00	
12,000.00	89.59	358.00	10,500.87	1,578.48	-1,159.46	1,696.80	0.00	0.00	0.00	
12,039.59	89.59	358.00	10,501.15	1,618.04	-1,160.84	1,736.28	0.00	0.00	0.00	
12,100.00	89.59	359.21	10,501.58	1,678.43	-1,162.32	1,796.46	2.00	0.00	2.00	
12,136.22	89.59	359.93	10,501.84	1,714.65	-1,162.59	1,832.49	2.00	0.00	2.00	
12,200.00	89.59	359.93	10,502.30	1,778.43	-1,162.66	1,895.88	0.00	0.00	0.00	
12,300.00	89.59	359.93	10,503.01	1,878.42	-1,162.78	1,995.28	0.00	0.00	0.00	
12,400.00	89.59	359.93	10,503.72	1,978.42	-1,162.90	2,094.68	0.00	0.00	0.00	
12,500.00	89.59	359.93	10,504.43	2,078.42	-1,163.01	2,194.08	0.00	0.00	0.00	
12,600.00	89.59	359.93	10,505.14	2,178.42	-1,163.13	2,293.48	0.00	0.00	0.00	
12,700.00	89.59	359.93	10,505.86	2,278.41	-1,163.25	2,392.88	0.00	0.00	0.00	
12,800.00	89.59	359.93	10,506.57	2,378.41	-1,163.37	2,492.28	0.00	0.00	0.00	
12,900.00	89.59	359.93	10,507.28	2,478.41	-1,163.48	2,591.68	0.00	0.00	0.00	
13,000.00	89.59	359.93	10,507.99	2,578.41	-1,163.60	2,691.08	0.00	0.00	0.00	
13,100.00	89.59	359.93	10,508.71	2,678.40	-1,163.72	2,790.48	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well TATER SALAD FEDERAL COM 905H
Company:	DELAWARE BASIN WEST	TVD Reference:	RKB=32ft @ 2945.00usft
Project:	ATLAS PROSPECT_NME	MD Reference:	RKB=32ft @ 2945.00usft
Site:	TATER SALAD & MOMBA FEDERAL	North Reference:	Grid
Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP2		

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)	
13,200.00	89.59	359.93	10,509.42	2,778.40	-1,163.84	2,889.88	0.00	0.00	0.00	
13,300.00	89.59	359.93	10,510.13	2,878.40	-1,163.95	2,989.28	0.00	0.00	0.00	
13,400.00	89.59	359.93	10,510.84	2,978.40	-1,164.07	3,088.67	0.00	0.00	0.00	
13,500.00	89.59	359.93	10,511.55	3,078.39	-1,164.19	3,188.07	0.00	0.00	0.00	
13,600.00	89.59	359.93	10,512.27	3,178.39	-1,164.31	3,287.47	0.00	0.00	0.00	
13,700.00	89.59	359.93	10,512.98	3,278.39	-1,164.42	3,386.87	0.00	0.00	0.00	
13,800.00	89.59	359.93	10,513.69	3,378.38	-1,164.54	3,486.27	0.00	0.00	0.00	
13,900.00	89.59	359.93	10,514.40	3,478.38	-1,164.66	3,585.67	0.00	0.00	0.00	
14,000.00	89.59	359.93	10,515.12	3,578.38	-1,164.78	3,685.07	0.00	0.00	0.00	
14,100.00	89.59	359.93	10,515.83	3,678.38	-1,164.89	3,784.47	0.00	0.00	0.00	
14,200.00	89.59	359.93	10,516.54	3,778.37	-1,165.01	3,883.87	0.00	0.00	0.00	
14,300.00	89.59	359.93	10,517.25	3,878.37	-1,165.13	3,983.27	0.00	0.00	0.00	
14,400.00	89.59	359.93	10,517.96	3,978.37	-1,165.25	4,082.67	0.00	0.00	0.00	
14,500.00	89.59	359.93	10,518.68	4,078.37	-1,165.37	4,182.07	0.00	0.00	0.00	
14,600.00	89.59	359.93	10,519.39	4,178.36	-1,165.48	4,281.47	0.00	0.00	0.00	
14,700.00	89.59	359.93	10,520.10	4,278.36	-1,165.60	4,380.87	0.00	0.00	0.00	
14,800.00	89.59	359.93	10,520.81	4,378.36	-1,165.72	4,480.27	0.00	0.00	0.00	
14,900.00	89.59	359.93	10,521.53	4,478.36	-1,165.84	4,579.67	0.00	0.00	0.00	
15,000.00	89.59	359.93	10,522.24	4,578.35	-1,165.95	4,679.07	0.00	0.00	0.00	
15,100.00	89.59	359.93	10,522.95	4,678.35	-1,166.07	4,778.47	0.00	0.00	0.00	
15,200.00	89.59	359.93	10,523.66	4,778.35	-1,166.19	4,877.87	0.00	0.00	0.00	
15,300.00	89.59	359.93	10,524.37	4,878.35	-1,166.31	4,977.26	0.00	0.00	0.00	
15,400.00	89.59	359.93	10,525.09	4,978.34	-1,166.42	5,076.66	0.00	0.00	0.00	
15,500.00	89.59	359.93	10,525.80	5,078.34	-1,166.54	5,176.06	0.00	0.00	0.00	
15,600.00	89.59	359.93	10,526.51	5,178.34	-1,166.66	5,275.46	0.00	0.00	0.00	
15,700.00	89.59	359.93	10,527.22	5,278.34	-1,166.78	5,374.86	0.00	0.00	0.00	
15,800.00	89.59	359.93	10,527.94	5,378.33	-1,166.89	5,474.26	0.00	0.00	0.00	
15,900.00	89.59	359.93	10,528.65	5,478.33	-1,167.01	5,573.66	0.00	0.00	0.00	
16,000.00	89.59	359.93	10,529.36	5,578.33	-1,167.13	5,673.06	0.00	0.00	0.00	
16,100.00	89.59	359.93	10,530.07	5,678.32	-1,167.25	5,772.46	0.00	0.00	0.00	
16,200.00	89.59	359.93	10,530.78	5,778.32	-1,167.36	5,871.86	0.00	0.00	0.00	
16,300.00	89.59	359.93	10,531.50	5,878.32	-1,167.48	5,971.26	0.00	0.00	0.00	
16,400.00	89.59	359.93	10,532.21	5,978.32	-1,167.60	6,070.66	0.00	0.00	0.00	
16,500.00	89.59	359.93	10,532.92	6,078.31	-1,167.72	6,170.06	0.00	0.00	0.00	
16,600.00	89.59	359.93	10,533.63	6,178.31	-1,167.83	6,269.46	0.00	0.00	0.00	
16,700.00	89.59	359.93	10,534.34	6,278.31	-1,167.95	6,368.86	0.00	0.00	0.00	
16,800.00	89.59	359.93	10,535.06	6,378.31	-1,168.07	6,468.26	0.00	0.00	0.00	
16,900.00	89.59	359.93	10,535.77	6,478.30	-1,168.19	6,567.66	0.00	0.00	0.00	
17,000.00	89.59	359.93	10,536.48	6,578.30	-1,168.30	6,667.06	0.00	0.00	0.00	
17,100.00	89.59	359.93	10,537.19	6,678.30	-1,168.42	6,766.46	0.00	0.00	0.00	
17,200.00	89.59	359.93	10,537.91	6,778.30	-1,168.54	6,865.85	0.00	0.00	0.00	
17,300.00	89.59	359.93	10,538.62	6,878.29	-1,168.66	6,965.25	0.00	0.00	0.00	
17,400.00	89.59	359.93	10,539.33	6,978.29	-1,168.77	7,064.65	0.00	0.00	0.00	
17,500.00	89.59	359.93	10,540.04	7,078.29	-1,168.89	7,164.05	0.00	0.00	0.00	
17,600.00	89.59	359.93	10,540.75	7,178.29	-1,169.01	7,263.45	0.00	0.00	0.00	
17,700.00	89.59	359.93	10,541.47	7,278.28	-1,169.13	7,362.85	0.00	0.00	0.00	
17,800.00	89.59	359.93	10,542.18	7,378.28	-1,169.24	7,462.25	0.00	0.00	0.00	
17,900.00	89.59	359.93	10,542.89	7,478.28	-1,169.36	7,561.65	0.00	0.00	0.00	
18,000.00	89.59	359.93	10,543.60	7,578.28	-1,169.48	7,661.05	0.00	0.00	0.00	
18,100.00	89.59	359.93	10,544.32	7,678.27	-1,169.60	7,760.45	0.00	0.00	0.00	
18,200.00	89.59	359.93	10,545.03	7,778.27	-1,169.71	7,859.85	0.00	0.00	0.00	
18,300.00	89.59	359.93	10,545.74	7,878.27	-1,169.83	7,959.25	0.00	0.00	0.00	
18,400.00	89.59	359.93	10,546.45	7,978.27	-1,169.95	8,058.65	0.00	0.00	0.00	
18,500.00	89.59	359.93	10,547.16	8,078.26	-1,170.07	8,158.05	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well TATER SALAD FEDERAL COM 905H
Company:	DELAWARE BASIN WEST	TVD Reference:	RKB=32ft @ 2945.00usft
Project:	ATLAS PROSPECT_NME	MD Reference:	RKB=32ft @ 2945.00usft
Site:	TATER SALAD & MOMBA FEDERAL	North Reference:	Grid
Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP2		

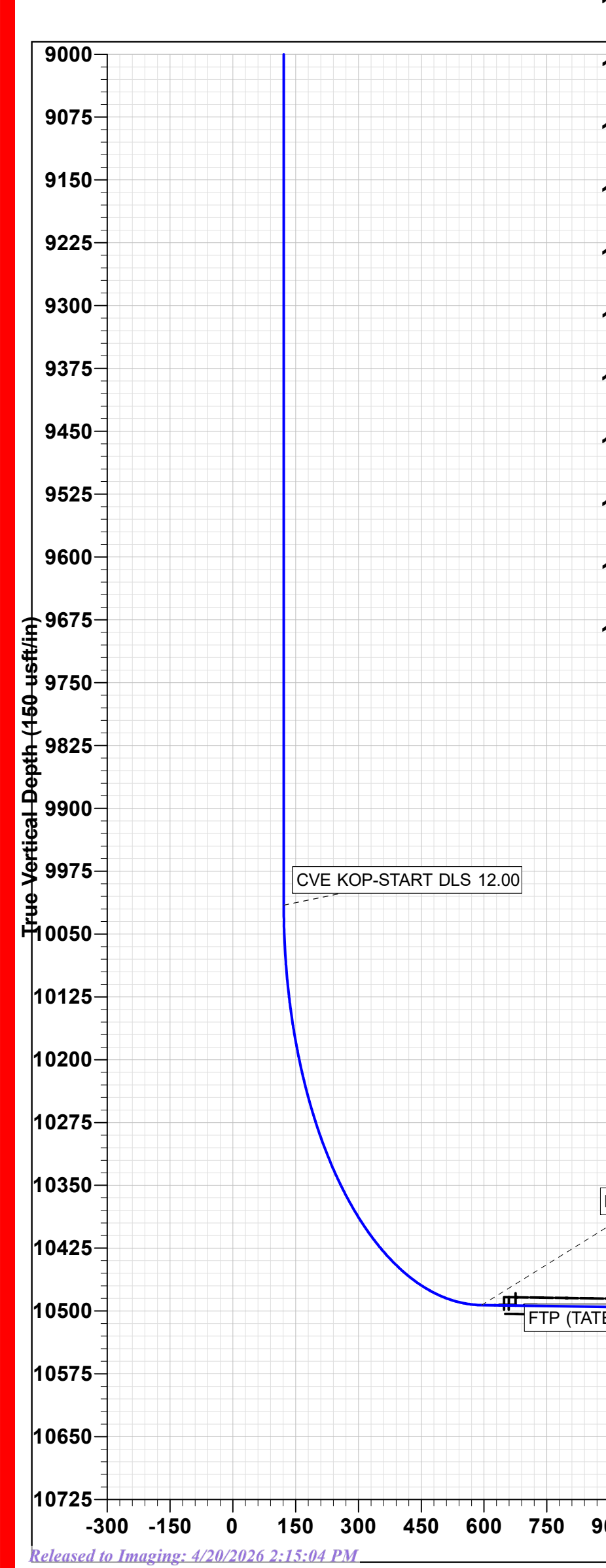
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,600.00	89.59	359.93	10,547.88	8,178.26	-1,170.18	8,257.45	0.00	0.00	0.00
18,700.00	89.59	359.93	10,548.59	8,278.26	-1,170.30	8,356.85	0.00	0.00	0.00
18,800.00	89.59	359.93	10,549.30	8,378.25	-1,170.42	8,456.25	0.00	0.00	0.00
18,900.00	89.59	359.93	10,550.01	8,478.25	-1,170.54	8,555.65	0.00	0.00	0.00
19,000.00	89.59	359.93	10,550.73	8,578.25	-1,170.65	8,655.05	0.00	0.00	0.00
19,100.00	89.59	359.93	10,551.44	8,678.25	-1,170.77	8,754.45	0.00	0.00	0.00
19,200.00	89.59	359.93	10,552.15	8,778.24	-1,170.89	8,853.84	0.00	0.00	0.00
19,300.00	89.59	359.93	10,552.86	8,878.24	-1,171.01	8,953.24	0.00	0.00	0.00
19,400.00	89.59	359.93	10,553.57	8,978.24	-1,171.12	9,052.64	0.00	0.00	0.00
19,500.00	89.59	359.93	10,554.29	9,078.24	-1,171.24	9,152.04	0.00	0.00	0.00
19,600.00	89.59	359.93	10,555.00	9,178.23	-1,171.36	9,251.44	0.00	0.00	0.00
19,700.00	89.59	359.93	10,555.71	9,278.23	-1,171.48	9,350.84	0.00	0.00	0.00
19,800.00	89.59	359.93	10,556.42	9,378.23	-1,171.59	9,450.24	0.00	0.00	0.00
19,900.00	89.59	359.93	10,557.14	9,478.23	-1,171.71	9,549.64	0.00	0.00	0.00
20,000.00	89.59	359.93	10,557.85	9,578.22	-1,171.83	9,649.04	0.00	0.00	0.00
20,100.00	89.59	359.93	10,558.56	9,678.22	-1,171.95	9,748.44	0.00	0.00	0.00
20,200.00	89.59	359.93	10,559.27	9,778.22	-1,172.06	9,847.84	0.00	0.00	0.00
20,300.00	89.59	359.93	10,559.98	9,878.22	-1,172.18	9,947.24	0.00	0.00	0.00
20,400.00	89.59	359.93	10,560.70	9,978.21	-1,172.30	10,046.64	0.00	0.00	0.00
20,500.00	89.59	359.93	10,561.41	10,078.21	-1,172.42	10,146.04	0.00	0.00	0.00
20,600.00	89.59	359.93	10,562.12	10,178.21	-1,172.53	10,245.44	0.00	0.00	0.00
20,700.00	89.59	359.93	10,562.83	10,278.21	-1,172.65	10,344.84	0.00	0.00	0.00
20,800.00	89.59	359.93	10,563.54	10,378.20	-1,172.77	10,444.24	0.00	0.00	0.00
20,900.00	89.59	359.93	10,564.26	10,478.20	-1,172.89	10,543.64	0.00	0.00	0.00
21,004.34	89.59	359.93	10,565.00	10,582.54	-1,173.01	10,647.35	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (TATER SALAD FE - hit/miss target - Shape)	0.00	0.00	10,493.00	550.60	-1,161.60	377,000.00	591,153.70	32° 2' 10.127 N	104° 2' 21.009 W
- plan misses target center by 38.01usft at 10972.79usft MD (10493.56 TVD, 551.92 N, -1123.61 E)									
- Circle (radius 50.00)									
LTP (TATER SALAD FEI - plan misses target center by 0.13usft at 20854.20usft MD (10563.93 TVD, 10432.40 N, -1172.83 E)	0.00	0.00	10,563.93	10,432.40	-1,172.70	386,881.80	591,142.60	32° 3' 47.923 N	104° 2' 20.825 W
- Point									
PBHL (TATER SALAD F - plan misses target center by 0.17usft at 20984.20usft MD (10564.86 TVD, 10562.40 N, -1172.99 E)	-0.41	179.93	10,565.00	10,562.40	-1,172.90	387,011.80	591,142.40	32° 3' 49.209 N	104° 2' 20.823 W
- Rectangle (sides W100.00 H10,034.00 D20.00)									

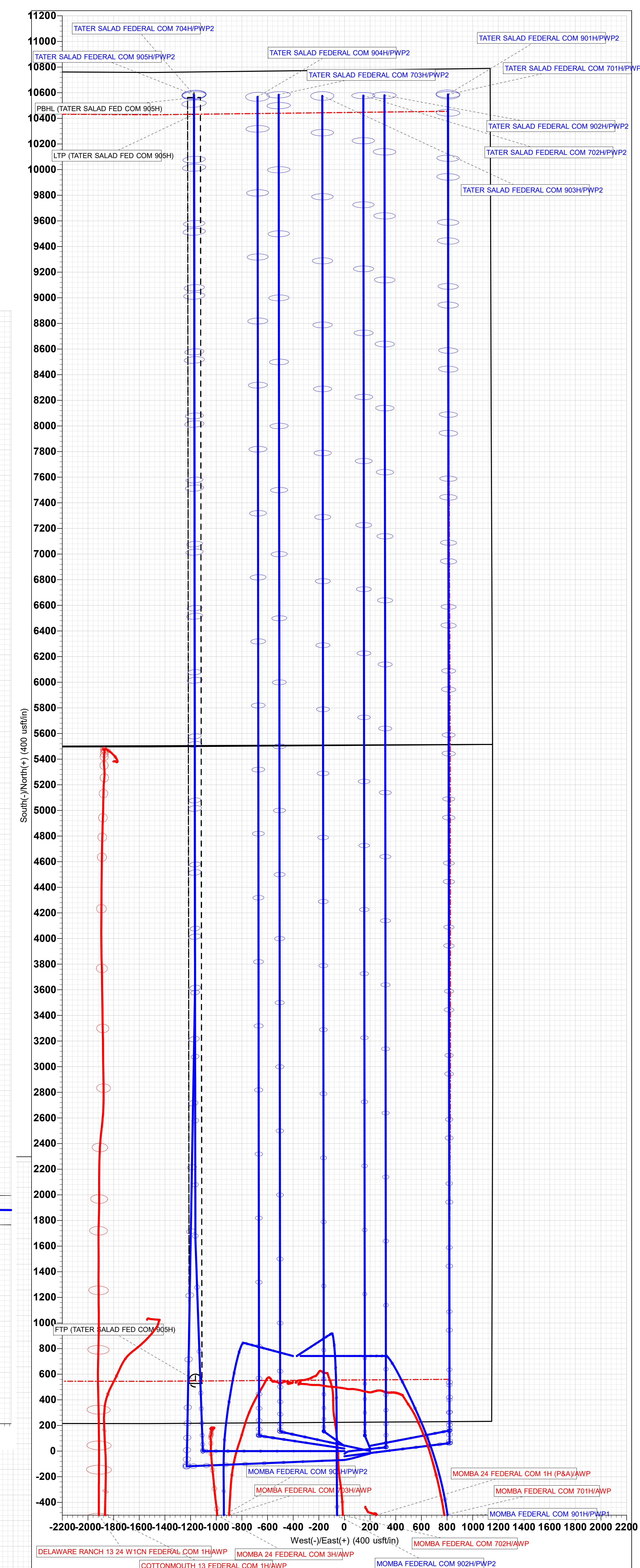
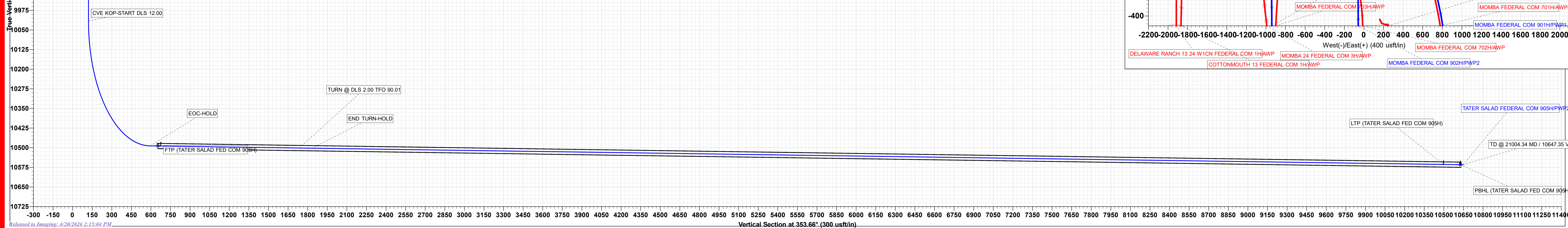
ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well TATER SALAD FEDERAL COM 905H
Company:	DELAWARE BASIN WEST	TVD Reference:	RKB=32ft @ 2945.00usft
Project:	ATLAS PROSPECT_NME	MD Reference:	RKB=32ft @ 2945.00usft
Site:	TATER SALAD & MOMBA FEDERAL	North Reference:	Grid
Well:	TATER SALAD FEDERAL COM 905H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP2		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,000.00	2,000.00	0.00	0.00	NUDGE @ DLS 2.00
2,750.00	2,741.46	0.00	-97.62	HOLD TNGT
5,885.37	5,770.00	0.00	-909.11	END NUDGE
7,385.37	7,252.92	0.00	-1,104.34	HOLD TO CVE KOP
10,148.00	10,015.55	0.00	-1,104.34	CVE KOP-START DLS 12.00
10,894.59	10,493.00	473.77	-1,120.88	EOC-HOLD
12,039.59	10,501.15	1,618.04	-1,160.84	TURN @ DLS 2.00 TFO 90.01
12,136.22	10,501.84	1,714.65	-1,162.59	END TURN-HOLD
21,004.34	10,565.00	10,582.54	-1,173.01	TD @ 21004.34 MD / 10647.35 VS



SECTION DETAILS									
	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00
	2750.00	15.00	270.00	2741.46	0.00	-37.62	2.00	270.00	10.77
	5885.37	15.00	270.00	5770.00	0.00	-909.11	0.00	0.00	100.34
	7385.37	0.00	0.00	7252.92	0.00	-1104.34	1.00	180.00	121.88
	10148.00	0.00	0.00	10015.55	0.00	-1104.34	0.00	0.00	121.88
	10894.59	89.59	358.00	10493.00	473.77	-1120.88	12.00	358.00	594.59
	12039.59	89.59	358.00	10501.15	1618.04	-1160.84	0.00	0.00	1736.28
	12136.22	89.59	359.93	10501.84	1714.65	-1162.59	2.00	90.01	1832.49
	21004.34	89.59	359.93	10565.00	10582.34	-1173.01	0.00	0.00	10647.35



Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No. NMNM12559	
6. If Indian, Allottee or Tribe Name	
7. If Unit of CA/Agreement, Name and/or No.	
8. Well Name and No. TATER SALAD FEDERAL COM/905H	
9. API Well No.	
10. Field and Pool or Exploratory Area PURPLE SAGE/Wolfcamp, Gas	11. Country or Parish, State EDDY/NM

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

2. Name of Operator
COG OPERATING LLC

3a. Address 600 West Illinois Ave, Midland, TX 79701 3b. Phone No. (include area code)
(432) 683-7443

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)
SEC 24/T26S/R28E/NMP

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 requests approval for the following changes to the original approved APD.

API #30-015-57315
APD ID: 10400090941

Summary of changes:
No changes in targets
MD at TD changed to 21,004'
TVD of target changed to 10,493'
7-5/8" casing shoe @ 10,150' MD
Contingency cement program to include bradenhead cement job if severe losses are encountered
Request surface and intermediate cement jobs to be performed offline
Continued on page 3 additional information

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 02/04/2026

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved	Title Petroleum Engineer	Date 02/18/2026
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

Additional Remarks

Request variance to perform BOPE break testing on intermediate skids

Drilling program, directional plan, AC report, bradenhead and break testing.

Location of Well

0. SHL: NENE / 225 FNL / 1150 FEL / TWSP: 26S / RANGE: 28E / SECTION: 24 / LAT: 32.034748 / LONG: -104.03591 (TVD: 0 feet, MD: 0 feet)

PPP: SWSE / 330 FSL / 2310 FEL / TWSP: 26S / RANGE: 28E / SECTION: 13 / LAT: 32.036263 / LONG: -104.039654 (TVD: 10513 feet, MD: 10992 feet)

PPP: SWNE / 1321 FNL / 2310 FEL / TWSP: 26S / RANGE: 28E / SECTION: 13 / LAT: 32.046265 / LONG: -104.039636 (TVD: 10547 feet, MD: 14301 feet)

BHL: NWNE / 200 FNL / 2310 FEL / TWSP: 26S / RANGE: 28E / SECTION: 12 / LAT: 32.063793 / LONG: -104.039603 (TVD: 10570 feet, MD: 21081 feet)

CONFIDENTIAL

Well Name: TATER SALAD FEDERAL COM	Well Location: T26S / R28E / SEC 24 / NENE / 32.034748 / -104.03591	County or Parish/State: EDDY / NM
Well Number: 905H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM12559	Unit or CA Name:	Unit or CA Number:
US Well Number:	Operator: COG OPERATING LLC	

Notice of Intent

Sundry ID: 2894387

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 02/04/2026	Time Sundry Submitted: 01:22
Date proposed operation will begin: 02/04/2026	

Procedure Description: COG Operating LLC, respectfully requests approval for the following changes to the original approved APD. API #30-015-57315 APD ID: 10400090941 Summary of changes: • No changes in targets • MD at TD changed to 21,004' • TVD of target changed to 10,493' • 7-5/8" casing shoe @ 10,150' MD • Contingency cement program to include bradenhead cement job if severe losses are encountered • Request surface and intermediate cement jobs to be performed offline • Request variance to perform BOPE break testing on intermediate skids Drilling program, directional plan, AC report, bradenhead and break testing.

NOI Attachments

Procedure Description

- COP_Offline_Bradenhead_Intermediate_Documentation_20260204131904.pdf
- TATER_SALAD_FEDERAL_COM_905H_PWP2_AC_RPT_20260204131903.pdf
- TATER_SALAD_FEDERAL_COM_905H_PWP2_PPLOT_20260204131903.pdf
- Tater_Salad_Federal_Com_905H_Drilling_Program_20260204131903.pdf
- TATER_SALAD_FEDERAL_COM_905H_PWP2_DIR_RPT_20260204131903.pdf
- COP_BOP_Break_Testing_Documentation_20260204131901.pdf

Received by OCD: 2/20/2026 8:33:23 AM

Page 81 of 98

Well Name: TATER SALAD FEDERAL COM	Well Location: T26S / R28E / SEC 24 / NENE / 32.034748 / -104.03591	County or Parish/State: EDDY / NM
Well Number: 905H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM12559	Unit or CA Name:	Unit or CA Number:
US Well Number:	Operator: COG OPERATING LLC	

Conditions of Approval

Additional

TATER_SALAD_FED_COM_905H_COAs_20260211145814.pdf

SEC24_T26S_R28E_TATER_SALAD_FED_COM_Eddy_CONOCOPHILLIPS_COMPANY_46064_JS_20260211145814.pdf

SEC24_T26S_R28E_TATER_SALAD_FED_COM_Eddy_CONOCOPHILLIPS_COMPANY_46064_JS_B_20260211145814.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: FEB 04, 2026 01:19 PM

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: 02/18/2026

Signature: Chris Walls

ConocoPhillips Company - TATER SALAD FED COM 905H

1. Geologic Formations

TVD of target	10,493' EOL	Pilot hole depth	NA
MD at TD:	21,004'	Deepest expected fresh water:	0'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	465	Water	
Top of Salt	595	Salt	
Base of Salt	2458	Salt	
Lamar	2658	Salt Water	
Bell Canyon	2709	Salt Water	
Cherry Canyon	3519	Oil/Gas	
Brushy Canyon	4866	Oil/Gas	
Bone Spring	6361	Oil/Gas	
1st Bone Spring Sand	7261	Oil/Gas	
2nd Bone Spring Sand	7944	Oil/Gas	
3rd Bone Spring Sand	9100	Oil/Gas	
Wolfcamp	9454	Oil/Gas	
Wolfcamp A	9564	Oil/Gas	
Wolfcamp B	9911	Oil/Gas	
Wolfcamp C	10442	Target	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	450	10.75"	45.5	J55	BTC	10.15	1.14	34.92	38.88
9.875"	0	7500	7.625"	29.7	L80-ICY	BTC	1.51	1.16	3.26	3.29
8.750"	7500	10150	7.625"	29.7	P110-ICY	W513	1.39	1.75	3.54	2.13
6.75"	0	9950	5.5"	23	P110-CY	BTC	2.08	2.43	3.19	3.19
6.75"	9950	21,004	5.5"	23	P110-CY	W441	1.97	2.30	3.02	2.74
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

2b. Contingency 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	450	13.375"	54.5	J55	BTC	5.49	2.54	34.78	37.06
12.25"	0	2560	9.625"	40	L80-IC	BTC	2.91	1.45	8.95	9.25
8.75"	2360	10150	7.625"	29.7	P110-ICY	W513	1.39	1.75	3.54	2.13
6.75"	0	9950	5.5"	23	P110-CY	BTC	2.08	2.43	3.19	3.19
6.75"	9950	21,004	5.5"	23	P110-CY	W441	1.97	2.30	3.02	2.74
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

Contingency program will be run if large water flows are encountered.

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.

February 4, 2026

1

ConocoPhillips Company - TATER SALAD FED COM 905H

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

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3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	220	12.8	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	740	10.3	3.3	22	24	Halliburton tuned light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	630	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	830	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

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

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

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

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
Production	9,650'	20% OH in Lateral (KOP to EOL)

3b. Contingency Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	270	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Int. #1	300	12.8	1.75	9.21	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	390	14.8	1.35	6.6	8	Tail: Class C + 2% CaCl ₂
Inter. #2 (Liner)	300	10.5	3.3	22	24	Tuned light
	90	14.8	1.35	6.6	8	Tail: Class H
Prod	510	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	830	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

Contingency program will be run if large water flows are encountered.

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
2 nd Intermediate	2,360'	20%
Production	9,900'	20% OH in Lateral (KOP to EOL)

If conditions dictate, an offline bradenhead cement job will be performed to ensure cement to surface. A CBL will be ran Offline to verify TOC after 2nd Stage Bradenhead.

ConocoPhillips Company - TATER SALAD FED COM 905H**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" or 9-7/8"	13-5/8"	5M	Annular	x	2500psi
			Blind Ram	x	5000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		
6-3/4"	13-5/8"	10M	5M Annular	x	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. 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	7-5/8" Int shoe	Brine Diesel Emulsion	8.4 - 10	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 13.5	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
---	-----------------------------

5b. Contingency Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	9-5/8" Int shoe	Brine	8.4 - 10	28-34	N/C
9-5/8" Int shoe	7-5/8" Int shoe	Brine	8.4 - 10	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 13.5	35-45	<20

6. Logging and Testing Procedures

Logging, Coring and Testing.	
Y	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
Y	No Logs are planned based on well control or offset log information.
N	Drill stem test? If yes, explain.
N	Coring? If yes, explain.

Additional logs planned		Interval
N	Resistivity	Pilot Hole TD to ICP
N	Density	Pilot Hole TD to ICP
Y	CBL	Production casing (If cement not circulated to surface)
Y	Mud log	Intermediate shoe to TD
N	PEX	

ConocoPhillips Company - TATER SALAD FED COM 905H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	7370 psi at 10493' TVD
Abnormal Temperature	NO 160 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?
Y	Is it a batch drilling operation?

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

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
WELL NAME & NO.:	TATER SALAD FED COM 905H
LOCATION:	Section 24, T.26 S., R.28 E., NMP
COUNTY:	Eddy County, New Mexico

COA

H2S	☒ Yes	☐ No	
Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☐ Low	☒ Medium	☐ High
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☒ Multibowl	☐ Both
Wellhead Variance	☐ Diverter		
Other	☐ 4 String	☐ Capitan Reef	☐ WIPP
Other	☒ Fluid Filled	☐ Pilot Hole	☐ Open Annulus
Cementing	☒ Contingency Cement Squeeze	☒ EchoMeter	☐ Primary Cement Squeeze
Special Requirements	☐ Water Disposal	☒ COM	☐ Unit
Special Requirements	☐ Batch Sundry		
Special Requirements Variance	☒ Break Testing	☒ Offline Cementing	☒ Casing Clearance

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.

B. CASING

Primary Casing Design:

1. The **10-3/4** inch surface casing shall be set at approximately **450 feet** (a minimum of 70 feet (Eddy 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. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
- Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Contingency Squeeze:

Operator has proposed to pump down 10-3/4" X 7-5/8" annulus. Operator must top out cement after the bradenhead squeeze and verify cement to surface. Operator can also check TOC with Echo-meter. CBL must be run from TD of the 7-5/8" casing to surface if confidence is lacking on the quality of the bradenhead squeeze cement job. Submit results to BLM.

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must run one CBL per Well Pad.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
 - **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

Contingency Casing Design:

4. The **13-3/8** inch surface casing shall be set at approximately **450 feet** (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - e. 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.
 - f. 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)
 - g. 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.
 - h. If cement falls back, remedial cementing will be done prior to drilling out that string.
5. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
 - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
6. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the **7-5/8** inch intermediate liner is:
 - Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Contingency Squeeze:

Operator has proposed to pump down 9-5/8" X 7-5/8" annulus. Operator must top out cement after the bradenhead squeeze and verify cement to surface. Operator

can also check TOC with Echo-meter. CBL must be run from TD of the 7-5/8" casing to surface if confidence is lacking on the quality of the bradenhead squeeze cement job. Submit results to BLM.

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must run one CBL per Well Pad.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

7. The minimum required fill of cement behind the 5-1/2 inch production casing is:

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
- **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst 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 10-3/4 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)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in Onshore Order 1 and 2.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

(Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system)

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 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 (575-361-2822 Eddy 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 Onshore Oil and Gas Order No. 2.
- 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)

☒ 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 2/11/2026

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

CONDITIONS

Action 556240

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 556240
	Action Type: [C-103A] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing.	4/20/2026
ward.rikala	Post Bradenhead cement squeeze, a CBL will be required. If zonal isolation was not achieved per OCD requirements, then remedial work is required before operations can continue.	4/20/2026
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	4/20/2026