

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

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

1a. Type of work: ☐ DRILL ☐ REENTER 1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. 100133 [333084]	
2. Name of Operator [229137]		9. API Well No. 30-025-50380	
3a. Address		3b. Phone No. (include area code)	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		10. Field and Pool, or Exploratory [98248] 11. Sec., T. R. M. or Blk. and Survey or Area	
14. Distance in miles and direction from nearest town or post office*		12. County or Parish 13. State	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)		16. No of acres in lease	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.		17. Spacing Unit dedicated to this well 20. BLM/BIA Bond No. in file	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		22. Approximate date work will start*	
23. Estimated duration		24. Attachments	
The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)			
1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).		4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the BLM.	
25. Signature		Name (Printed/Typed)	
Title		Date	
Approved by (Signature)		Name (Printed/Typed)	
Title		Office	
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached.			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.			

NGMP Rec 06/23/2022

SL

(Continued on page 2)



Approval Date: 06/22/2022

 KZ
 07/26/2022

*(Instructions on page 2)

Additional Operator Remarks

Location of Well

0. SHL: NENE / 685 FNL / 1245 FEL / TWSP: 24S / RANGE: 32E / SECTION: 30 / LAT: 32.193747 / LONG: -103.709261 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 100 FNL / 1254 FEL / TWSP: 24S / RANGE: 32E / SECTION: 30 / LAT: 32.195355 / LONG: -103.709288 (TVD: 11949 feet, MD: 12019 feet)

BHL: SESE / 50 FSL / 1254 FEL / TWSP: 24S / RANGE: 32E / SECTION: 31 / LAT: 32.166739 / LONG: -103.709237 (TVD: 12067 feet, MD: 22357 feet)

BLM Point of Contact

Name: Gavin Mickwee

Title: Land Law Examiner

Phone: (575) 234-5972

Email: gmickwee@blm.gov

CONFIDENTIAL

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG
LEASE NO.:	NMNM120908
LOCATION:	Section 30, T.24S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:	Windward Fed 702H
SURFACE HOLE FOOTAGE:	685'/N & 1245'/E
BOTTOM HOLE FOOTAGE:	50'/S & 1254'/E

COA

H2S	☐ Yes	☒ No	
Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☒ Low	☐ Medium	☐ High
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☒ Multibowl	☐ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☐ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☐ COM	☐ Unit

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **10-3/4** inch surface casing shall be set at approximately **805** feet (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8**

hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
- Cement to surface. If cement does not circulate see B.1.a, c-d above.
- Wait on cement (WOC) time for a primary cement job is to include the tail cement slurry due to cave/karst.**
3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

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

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including

lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

ZS 051722

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3480 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

WC-025 G-08

API Number 30-025- 50380	Pool Code 98252 98248	Pool Name Mesa Verde Wolfcamp S243217P;UPR WC
Property Code 333084	Property Name WINDWARD FEDERAL	Well Number 702H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3550.5'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	30	24-S	32-E		685	NORTH	1245	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	31	24-S	32-E		50	SOUTH	1254	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
640			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

100' FNL & 1254' FEL Y=435364.7 N X=734374.4 E LAT.=32.195355° N LONG.=103.709288° W GRID AZ. TO FTP 358°49'49" POINT LEGEND <table border="1"> <tr><td>1</td><td>Y=435477.4 N X=735627.9 E</td></tr> <tr><td>2</td><td>Y=432838.9 N X=735641.2 E</td></tr> <tr><td>3</td><td>Y=430198.2 N X=735662.0 E</td></tr> <tr><td>4</td><td>Y=427560.0 N X=735684.2 E</td></tr> <tr><td>5</td><td>Y=424920.7 N X=735705.1 E</td></tr> <tr><td>6</td><td>Y=424886.2 N X=733080.2 E</td></tr> <tr><td>7</td><td>Y=430176.4 N X=733021.2 E</td></tr> <tr><td>8</td><td>Y=435450.5 N X=732978.6 E</td></tr> </table> 100' FSL & 1254' FEL Y=425004.6 N X=734450.4 E LAT.=32.166876° N LONG.=103.709237° W	1	Y=435477.4 N X=735627.9 E	2	Y=432838.9 N X=735641.2 E	3	Y=430198.2 N X=735662.0 E	4	Y=427560.0 N X=735684.2 E	5	Y=424920.7 N X=735705.1 E	6	Y=424886.2 N X=733080.2 E	7	Y=430176.4 N X=733021.2 E	8	Y=435450.5 N X=732978.6 E	LOT 1 46.01 Ac LOT 2 46.13 Ac LOT 3 46.22 Ac LOT 4 46.30 Ac SECTION 30 SECTION 31 LOT 1 46.43 Ac LOT 2 46.52 Ac LOT 3 46.55 Ac LOT 4 46.76 Ac	8 S.L. 685 1245' 179°34'47" GRID AZ. - 104°10'4" HORZ. DIST. - 104°10'4" 7 50' B.H. 1254' 5 NAD 83 NME SURFACE LOCATION Y=434779.7 N X=734386.4 E LAT.=32.193747° N LONG.=103.709261° W	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Stan Wagner</i> 1/7/2021 Signature Date Stan Wagner Printed Name E-mail Address SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. NOVEMBER 20, 2020 Date of Survey Signature & Seal of Professional Surveyor <i>Chad L. Hargrow</i> 12/4/20 Certificate No. CHAD HARGCROW 17777 W.O. # 20-1595 DRAWN BY: WN
1	Y=435477.4 N X=735627.9 E																		
2	Y=432838.9 N X=735641.2 E																		
3	Y=430198.2 N X=735662.0 E																		
4	Y=427560.0 N X=735684.2 E																		
5	Y=424920.7 N X=735705.1 E																		
6	Y=424886.2 N X=733080.2 E																		
7	Y=430176.4 N X=733021.2 E																		
8	Y=435450.5 N X=732978.6 E																		

Intent ☒ As Drilled ☐

API # 30-025		
Operator Name: COG Operating LLC	Property Name: Winward Federal	Well Number 702H

Kick Off Point (KOP)

UL A	Section 30	Township 24S	Range 32E	Lot	Feet	From N/S	Feet	From E/W	County Lea
Latitude					Longitude				NAD 83

First Take Point (FTP)

UL A	Section 30	Township 24S	Range 32E	Lot	Feet 100	From N/S North	Feet 1254	From E/W East	County Lea
Latitude 32.195355					Longitude -103.709288				NAD 83

Last Take Point (LTP)

UL P	Section 31	Township 24S	Range 32E	Lot	Feet 100	From N/S South	Feet 1254	From E/W East	County Lea
Latitude 32.166876					Longitude -103.709237				NAD 83

Is this well the defining well for the Horizontal Spacing Unit?

☒ Yes

Is this well an infill well?

☐ No

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API # 30-025-		
Operator Name: COG Operating LLC	Property Name: Winward Federal	Well Number 702H

KZ 06/29/2018

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division

1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: COG Operating LLC

OGRID: 229137

Date: 06/22/2022

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Windward Federal 701H	30-025-	A-30-24S-32E	685 FNL & 1215 FEL	± 1801	± 5071	± 2019
Windward Federal 702H	30-025-	A-30-24S-32E	685 FNL & 1245 FEL	± 1801	± 5071	± 2019
Windward Federal 703H	30-025-	A-30-24S-32E	685 FNL & 1275 FEL	± 1801	± 5071	± 2019
Windward Federal 704H	30-025-	1-30-24S-32E	710 FNL & 760 FWL	± 1801	± 5071	± 2019
Windward Federal 705H	30-025-	1-30-24S-32E	710 FNL & 730 FWL	± 1801	± 5071	± 2019
Windward Federal 706H	30-025-	1-30-24S-32E	710 FNL & 700 FWL	± 1801	± 5071	± 2019

IV. Central Delivery Point Name: Windward Federal 30 C CTB NE/NW 30-24S-32E [See 19.15.27.9(D)(1) NMAC]

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Windward Federal	Pending	± 6/1/2024	± 25 days from spud	TBD	TBD	TBD
701H, 702H, 703H, 704H, 705H, 706H						

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

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

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

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

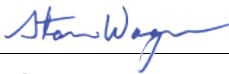
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

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

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

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

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

Signature: 
Printed Name: Stan Wagner
Title: Regulatory Advisor
E-mail Address: stan.s.wagner@conocophillips.com
Date: 06/23/2022
Phone: 432-253-9685
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment

How Operator will size separation equipment to optimize gas capture:

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

VII. Operational Practices

Actions Operator will take to comply with the requirements below:

B. Drilling Operations

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

C. Completion Operations

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

D. Venting and flaring during production operations

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

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

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

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

F. Measurement of vented and flared natural gas.

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

VIII. Best Management Practices

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

COG Operating, LLC - Windward Federal Com #702H

1. Geologic Formations

TVD of target	12,067' EOL	Pilot hole depth	NA
MD at TD:	22,358'	Deepest expected fresh water:	380'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	763	Water	
Top of Salt	1060	Salt	
Base of Salt	4385	Salt	
Lamar	4628	Salt Water	
Bell Canyon	4658	Salt Water	
Cherry Canyon	5568	Oil/Gas	
Brushy Canyon	6876	Oil/Gas	
Bone Spring Lime	8521	Oil/Gas	
1st Bone Spring Sand	9628	Oil/Gas	
2nd Bone Spring Sand	10230	Oil/Gas	
3rd Bone Spring Sand	11503	Oil/Gas	
Wolfcamp	11944	Target Oil/Gas	
Wolfcamp B	12430	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	1010	10.75"	45.5	N80	BTC	5.47	1.58	22.63	23.87
9.875"	0	8500	7.625"	29.7	HCL80	BTC	1.50	1.16	2.88	2.90
8.750"	8500	11473	7.625"	29.7	HCP 110	TL-FJ	1.26	1.20	2.76	1.93
6.75"	0	11273	5.5"	23	P110	BTC	1.93	2.30	2.63	2.61
6.75"	11273	22,358	5.5"	23	P110	Talon HTQ	1.93	2.30	2.63	2.55
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. Intermediate burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface.

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

COG Operating, LLC - Windward Federal Com #702H

	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.	N
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?	

COG Operating, LLC - Windward Federal Com #702H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft ³ / sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	410	13.5	1.75	9	12	Lead: Class C + 4% Gel
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter.	1400	11	2.8	19	48	Lead: NeoCem
	300	16.4	1.1	5	8	Tail: Class H
5.5 Prod	750	12.7	2	10.6	16	Lead: 35:65:6 H Blend
	1200	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

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	8,000'	35%

COG Operating, LLC - Windward Federal Com #702H

4. Pressure Control Equipment

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

BOP and BOPE will be installed per Onshore Order #2 requirements prior to drilling below the surface casing and will be rated to the above pressure rating or greater, see attached diagrams. Required safety valves, with appropriate wrenches and subs for the drill string being utilized, will be in the open position and accessible on the rig floor.

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

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

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

COG Operating, LLC - Windward Federal Com #702H

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.4 - 8.6	28-29	N/C
Surf csg	Int shoe	Diesel Brine Emul	8.6 - 9.4	30-40	N/C
Int shoe	Lateral TD	OBM	10.5 - 12	30-40	20

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
---	-----------------------------

6. Logging and Testing Procedures

Logging, Coring and Testing.	
Y	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
N	Are 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	

COG Operating, LLC - Windward Federal Com #702H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	7530 psi at 12067' TVD
Abnormal Temperature	NO 175 Deg. F.

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

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

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

8. Other Facets of Operation

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

x	H ₂ S Plan.
x	BOP & Choke Schematics.
x	Directional Plan
x	5M Annular Variance

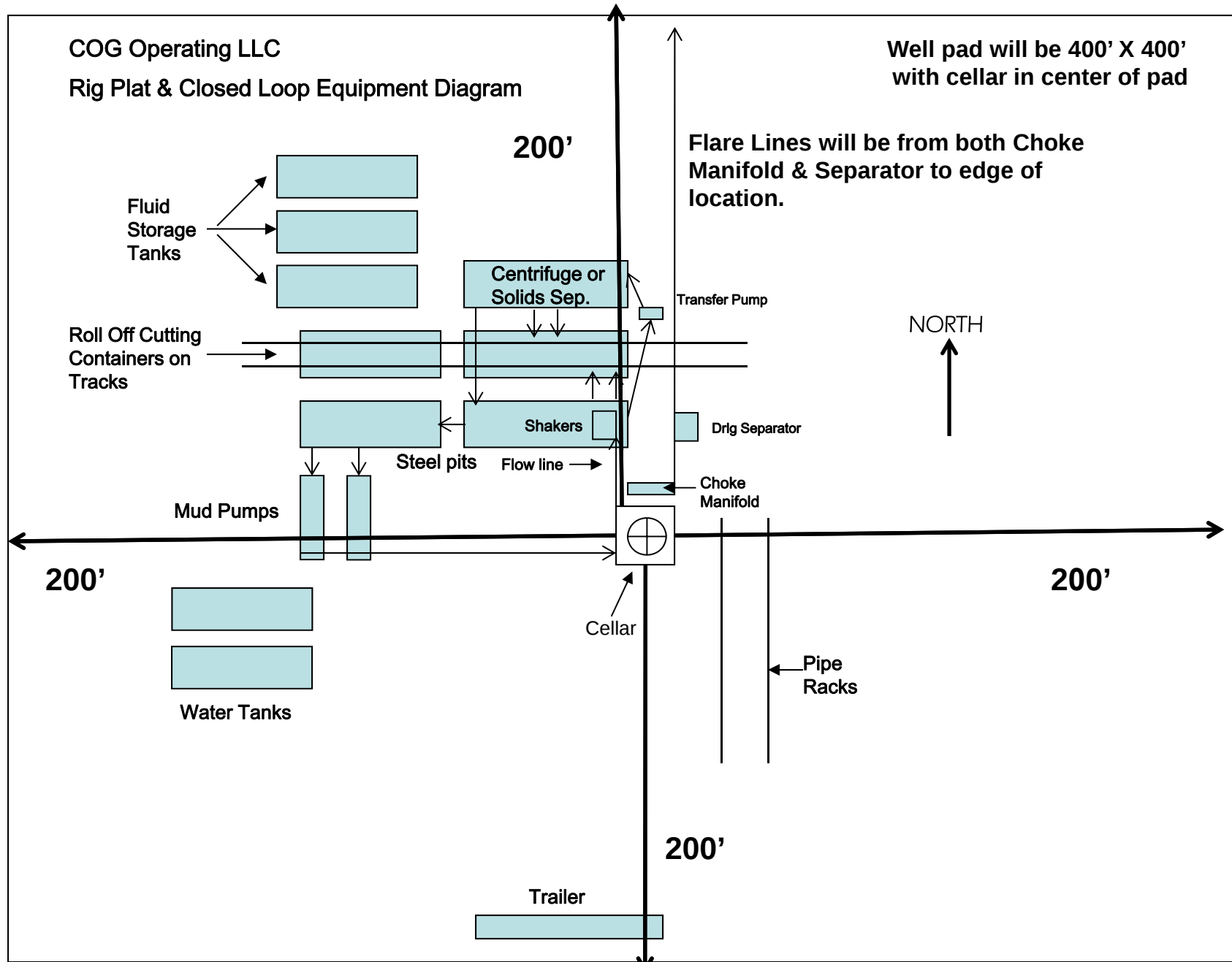


Exhibit 1

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

DELAWARE BASIN EAST
BULLDOG PROSPECT (NM-E)
WINDWARD FEDERAL PROJECT (BULLDOG 2432)
WINDWARD FED #702H

OWB
PWP1

Anticollision Report

11 December, 2020

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference	PWP1
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	Stations
Depth Range:	Unlimited
Results Limited by:	Maximum ellipse separation of 2,000.0 usft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Pedal Curve
Casing Method:	Not applied

Survey Tool Program		Date	12/11/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,557.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
11,557.0	22,357.7	PWP1 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction	

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						
WINDWARD FEDERAL PROJECT (BULLDOG 2432)						
PADUCA 30 FEDERAL #1 - OWB - INC ONLY - WELLPA	13,825.8	12,056.9	730.6	398.2	2.198	CC, ES, SF
WINDWARD FED #701H - OWB - PWP1	2,500.0	2,499.5	30.0	23.1	4.349	CC, ES, SF
WINDWARD FED #703H - OWB - PWP1	2,539.2	2,539.0	30.0	17.2	2.338	CC
WINDWARD FED #703H - OWB - PWP1	2,600.0	2,599.8	30.0	17.0	2.299	ES
WINDWARD FED #703H - OWB - PWP1	2,700.0	2,699.6	30.7	17.2	2.276	SF
WINDWARD FEDERAL #10H - OWB - ACTUAL WELLP	8,238.2	8,221.9	680.7	666.7	48.672	CC
WINDWARD FEDERAL #10H - OWB - ACTUAL WELLP	8,300.0	8,282.7	680.7	666.6	48.302	ES
WINDWARD FEDERAL #10H - OWB - ACTUAL WELLP	9,500.0	9,133.1	874.6	849.1	34.277	SF
WINDWARD FEDERAL #11H - OWB - ACTUAL WELLP	8,752.7	8,741.3	439.9	421.5	23.965	CC, ES
WINDWARD FEDERAL #11H - OWB - ACTUAL WELLP	9,200.0	9,060.5	503.3	481.8	23.393	SF
WINDWARD FEDERAL #12H - OWB - ACTUAL WELLP	8,624.3	8,606.0	718.9	704.4	49.596	CC, ES
WINDWARD FEDERAL #12H - OWB - ACTUAL WELLP	9,642.4	9,077.0	1,025.7	1,001.1	41.813	SF
WINDWARD FEDERAL #4H - OWB - ACTUAL WELLPA	8,909.7	8,890.6	796.3	756.8	20.136	CC, ES
WINDWARD FEDERAL #4H - OWB - ACTUAL WELLPA	22,200.0	20,361.0	1,780.4	1,586.5	9.181	SF
WINDWARD FEDERAL #9H - OWB - ACTUAL WELLPA	8,601.5	8,586.0	775.9	761.2	52.869	CC
WINDWARD FEDERAL #9H - OWB - ACTUAL WELLPA	8,700.0	8,652.4	777.7	761.1	46.836	ES
WINDWARD FEDERAL #9H - OWB - ACTUAL WELLPA	9,300.0	8,909.0	923.1	900.4	40.595	SF

WINDWARD FEDERAL PROJECT (BULLDOG 2432) - PADUCA 30 FEDERAL #1 - OWB - INC ONLY -											Offset Site Error:		0.0 usft	
Survey Program: 285-INC-ONLY											Offset Well Error:		3.0 usft	
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	3.0	3.0	-150.78	-1,302.4	-728.6	1,492.5					
100.0	100.0	75.4	75.4	3.0	3.1	-150.78	-1,302.4	-728.6	1,492.3	1,486.3	6.07	245.701		
200.0	200.0	175.4	175.4	3.0	3.4	-150.78	-1,302.4	-728.6	1,492.3	1,486.0	6.38	233.799		
300.0	300.0	275.4	275.4	3.0	3.9	-150.78	-1,302.4	-728.6	1,492.3	1,485.5	6.88	216.904		
400.0	400.0	375.4	375.4	3.0	5.2	-150.78	-1,302.4	-728.6	1,492.3	1,484.2	8.18	182.421		
500.0	500.0	475.4	475.4	3.1	6.7	-150.78	-1,302.4	-728.6	1,492.3	1,482.6	9.78	152.540		
539.6	539.6	514.8	514.8	3.1	7.4	-150.77	-1,302.2	-728.6	1,492.1	1,481.7	10.45	142.798		
600.0	600.0	574.5	574.5	3.1	8.4	-150.77	-1,302.2	-728.6	1,492.2	1,480.7	11.48	129.978		
700.0	700.0	673.2	673.2	3.1	10.1	-150.78	-1,302.3	-728.6	1,492.3	1,479.0	13.23	112.815		

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - PADUCA 30 FEDERAL #1 - OWB - INC ONLY -												Offset Site Error:	0.0 usft
Survey Program: 285-INC-ONLY												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
800.0	800.0	775.4	775.4	3.2	12.0	-150.78	-1,302.4	-728.6	1,492.3	1,477.2	15.16	98.440	
900.0	900.0	875.4	875.4	3.2	14.0	-150.78	-1,302.4	-728.6	1,492.3	1,475.2	17.15	87.027	
936.5	936.5	911.1	911.1	3.2	14.7	-150.77	-1,301.9	-728.6	1,491.8	1,474.0	17.86	83.517	
1,000.0	1,000.0	971.7	971.7	3.2	15.9	-150.77	-1,302.0	-728.6	1,491.9	1,472.9	19.08	78.193	
1,100.0	1,100.0	1,075.5	1,075.4	3.3	17.9	-150.78	-1,302.4	-728.6	1,492.3	1,471.2	21.18	70.466	
1,200.0	1,200.0	1,175.5	1,175.4	3.4	20.0	-150.78	-1,302.4	-728.6	1,492.3	1,469.0	23.30	64.060	
1,293.7	1,293.7	1,269.0	1,268.9	3.4	21.9	-150.76	-1,301.6	-728.6	1,491.6	1,466.3	25.28	58.994	
1,300.0	1,300.0	1,274.9	1,274.9	3.4	22.1	-150.76	-1,301.6	-728.6	1,491.6	1,466.2	25.41	58.698	
1,400.0	1,400.0	1,369.5	1,369.4	3.5	24.0	-150.77	-1,301.8	-728.6	1,491.8	1,464.4	27.43	54.384	
1,500.0	1,500.0	1,475.5	1,475.4	3.5	26.2	-150.78	-1,302.4	-728.6	1,492.3	1,462.6	29.70	50.250	
1,600.0	1,600.0	1,575.5	1,575.4	3.6	28.3	-150.78	-1,302.4	-728.6	1,492.3	1,460.5	31.86	46.841	
1,700.0	1,700.0	1,675.5	1,675.4	3.7	30.4	-150.78	-1,302.4	-728.6	1,492.3	1,458.3	34.03	43.860	
1,739.8	1,739.8	1,714.4	1,714.2	3.7	31.3	-150.76	-1,301.4	-728.6	1,491.5	1,456.6	34.87	42.774	
1,800.0	1,800.0	1,771.8	1,771.6	3.8	32.5	-150.76	-1,301.5	-728.6	1,491.6	1,455.4	36.12	41.299	
1,900.0	1,900.0	1,867.1	1,867.0	3.9	34.5	-150.77	-1,302.0	-728.6	1,492.0	1,453.8	38.19	39.065	
2,000.0	2,000.0	1,971.1	1,970.9	3.9	36.7	-150.78	-1,302.3	-728.6	1,492.3	1,451.8	40.49	36.857	
2,100.0	2,100.0	2,075.6	2,075.4	4.0	39.6	-150.78	-1,302.4	-728.6	1,492.3	1,448.9	43.43	34.366	
2,200.0	2,200.0	2,175.6	2,175.4	4.1	42.4	-150.78	-1,302.4	-728.6	1,492.3	1,446.0	46.36	32.187	
2,238.0	2,238.0	2,212.0	2,211.8	4.1	43.5	-150.76	-1,301.3	-728.6	1,491.4	1,444.0	47.44	31.441	
2,300.0	2,300.0	2,269.9	2,269.7	4.2	45.1	-150.76	-1,301.5	-728.6	1,491.6	1,442.4	49.14	30.351	
2,400.0	2,400.0	2,363.3	2,363.1	4.3	47.8	-150.77	-1,302.1	-728.6	1,492.2	1,440.3	51.90	28.752	
2,500.0	2,500.0	2,475.9	2,475.4	4.4	51.7	-150.78	-1,302.4	-728.6	1,492.3	1,436.5	55.88	26.706	
2,568.9	2,568.9	2,544.8	2,544.2	4.5	54.2	-149.66	-1,300.4	-728.6	1,491.3	1,432.8	58.45	25.514	
2,600.0	2,600.0	2,570.3	2,569.7	4.5	55.1	-149.67	-1,300.4	-728.6	1,492.1	1,432.7	59.41	25.117	
2,700.0	2,699.8	2,652.2	2,651.6	4.6	58.1	-149.71	-1,301.4	-728.6	1,497.6	1,435.2	62.47	23.972	
2,750.0	2,749.7	2,726.0	2,725.1	4.6	60.9	-149.81	-1,302.4	-728.6	1,501.8	1,436.4	65.32	22.990	
2,800.0	2,799.5	2,775.9	2,774.9	4.7	63.0	-149.89	-1,302.4	-728.6	1,505.5	1,438.1	67.41	22.334	
2,900.0	2,899.1	2,875.7	2,874.5	4.8	67.2	-150.06	-1,302.4	-728.6	1,513.1	1,441.3	71.77	21.083	
3,000.0	2,998.7	2,972.8	2,971.5	4.9	71.3	-150.20	-1,301.7	-728.6	1,520.0	1,444.1	75.95	20.014	
3,100.0	3,098.4	3,073.7	3,072.2	5.0	75.7	-150.36	-1,301.6	-728.6	1,527.5	1,447.0	80.44	18.990	
3,200.0	3,198.0	3,165.2	3,163.5	5.1	79.7	-150.52	-1,302.0	-728.6	1,535.4	1,450.9	84.50	18.172	
3,300.0	3,297.6	3,274.9	3,273.0	5.2	84.3	-150.70	-1,302.4	-728.6	1,543.4	1,454.2	89.25	17.293	
3,400.0	3,397.2	3,374.7	3,372.6	5.3	88.6	-150.86	-1,302.4	-728.6	1,551.0	1,457.5	93.57	16.576	
3,500.0	3,496.8	3,472.2	3,470.0	5.4	92.7	-151.00	-1,301.9	-728.6	1,558.2	1,460.4	97.78	15.936	
3,600.0	3,596.4	3,573.9	3,571.5	5.5	97.1	-151.15	-1,301.5	-728.6	1,565.4	1,463.2	102.25	15.310	
3,700.0	3,696.1	3,674.1	3,671.5	5.6	101.3	-151.32	-1,302.4	-728.6	1,573.9	1,467.3	106.63	14.761	
3,800.0	3,795.7	3,773.9	3,771.1	5.7	105.5	-151.47	-1,302.4	-728.6	1,581.6	1,470.7	110.94	14.256	
3,900.0	3,895.3	3,853.6	3,850.7	5.8	109.0	-151.58	-1,301.8	-728.6	1,588.8	1,474.3	114.49	13.877	
4,000.0	3,994.9	3,953.5	3,950.4	5.9	113.4	-151.73	-1,301.9	-728.6	1,596.6	1,477.6	119.02	13.415	
4,100.0	4,094.5	4,060.4	4,057.1	6.0	118.0	-151.89	-1,301.5	-728.6	1,603.9	1,480.2	123.71	12.965	
4,200.0	4,194.2	4,173.0	4,169.6	6.2	122.5	-152.06	-1,302.4	-728.6	1,612.3	1,484.0	128.34	12.563	
4,300.0	4,293.8	4,272.8	4,269.2	6.3	126.3	-152.21	-1,302.4	-728.6	1,620.1	1,487.8	132.24	12.251	
4,400.0	4,393.4	4,354.6	4,351.0	6.4	129.1	-152.32	-1,301.9	-728.6	1,627.4	1,492.3	135.10	12.046	
4,500.0	4,493.0	4,472.1	4,468.4	6.5	132.9	-152.49	-1,302.4	-728.6	1,635.5	1,496.4	139.07	11.761	
4,600.0	4,592.6	4,551.8	4,548.1	6.6	135.5	-152.60	-1,302.1	-728.6	1,643.1	1,501.3	141.75	11.591	
4,700.0	4,692.3	4,671.5	4,667.7	6.7	139.4	-152.77	-1,302.4	-728.6	1,651.0	1,505.2	145.76	11.327	
4,800.0	4,791.9	4,754.0	4,750.1	6.8	142.1	-152.87	-1,301.5	-728.6	1,658.0	1,509.5	148.54	11.162	
4,900.0	4,891.5	4,870.9	4,866.9	7.0	145.7	-153.05	-1,302.4	-728.6	1,666.5	1,514.3	152.22	10.948	
5,000.0	4,991.1	4,964.4	4,960.3	7.1	148.3	-153.16	-1,301.4	-728.6	1,673.4	1,518.4	155.01	10.795	
5,100.0	5,090.7	5,070.3	5,066.1	7.2	151.4	-153.32	-1,302.4	-728.6	1,682.1	1,524.0	158.15	10.636	
5,200.0	5,190.4	5,169.9	5,165.8	7.3	154.1	-153.45	-1,302.4	-728.6	1,689.9	1,528.9	161.00	10.496	

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

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COMPASS 5000.15 Build 91E

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - PADUCA 30 FEDERAL #1 - OWB - INC ONLY -													Offset Site Error:	0.0 usft
Survey Program: 285-INC-ONLY													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
				(usft)	(usft)			+N/-S (usft)	+E/-W (usft)					
5,300.0	5,290.0	5,268.5	5,264.3	7.4	156.8	-153.56	-1,300.9	-728.6	1,696.3	1,532.5	163.82	10.355		
5,400.0	5,389.6	5,357.7	5,353.5	7.5	159.3	-153.68	-1,301.3	-728.6	1,704.5	1,538.1	166.38	10.245		
5,500.0	5,489.2	5,469.0	5,464.6	7.7	162.3	-153.84	-1,302.4	-728.6	1,713.3	1,543.8	169.54	10.106		
5,600.0	5,588.8	5,568.6	5,564.2	7.8	164.9	-153.97	-1,302.4	-728.6	1,721.2	1,548.9	172.27	9.991		
5,700.0	5,688.5	5,668.2	5,663.9	7.9	167.5	-154.09	-1,302.4	-728.6	1,729.0	1,554.0	175.00	9.880		
5,800.0	5,788.1	5,760.8	5,756.4	8.0	170.0	-154.19	-1,300.8	-728.6	1,735.4	1,557.9	177.54	9.775		
5,900.0	5,887.7	5,851.0	5,846.6	8.1	172.3	-154.31	-1,301.5	-728.6	1,743.9	1,563.9	180.02	9.687		
6,000.0	5,987.3	5,967.2	5,962.7	8.3	175.3	-154.47	-1,302.4	-728.6	1,752.6	1,569.5	183.09	9.572		
6,100.0	6,086.9	6,066.9	6,062.3	8.4	177.6	-154.59	-1,302.4	-728.6	1,760.5	1,574.9	185.57	9.487		
6,200.0	6,186.6	6,158.2	6,153.7	8.5	179.8	-154.69	-1,301.5	-728.6	1,767.5	1,579.7	187.86	9.409		
6,300.0	6,286.2	6,266.2	6,261.6	8.6	182.4	-154.83	-1,302.4	-728.6	1,776.2	1,585.7	190.55	9.322		
6,400.0	6,385.8	6,365.8	6,361.2	8.7	184.7	-154.95	-1,302.4	-728.6	1,784.1	1,591.1	193.04	9.242		
6,500.0	6,485.4	6,465.0	6,460.3	8.9	187.1	-155.05	-1,301.3	-728.6	1,791.0	1,595.5	195.52	9.160		
6,600.0	6,585.0	6,564.4	6,551.8	9.0	189.3	-155.16	-1,301.6	-728.6	1,799.2	1,601.4	197.82	9.095		
6,700.0	6,684.7	6,664.8	6,660.1	9.1	191.9	-155.30	-1,302.4	-728.6	1,807.9	1,607.4	200.52	9.016		
6,800.0	6,784.3	6,764.4	6,759.7	9.2	194.2	-155.41	-1,302.4	-728.6	1,815.8	1,612.8	203.02	8.944		
6,900.0	6,883.9	6,863.6	6,858.9	9.3	196.6	-155.51	-1,301.1	-728.6	1,822.5	1,617.0	205.50	8.869		
7,000.0	6,983.5	6,953.4	6,948.6	9.5	198.7	-155.62	-1,301.4	-728.6	1,830.8	1,623.0	207.76	8.812		
7,100.0	7,083.1	7,063.4	7,058.5	9.6	201.4	-155.75	-1,302.4	-728.6	1,839.6	1,629.1	210.50	8.739		
7,200.0	7,182.7	7,163.0	7,158.1	9.7	203.4	-155.86	-1,302.4	-728.6	1,847.6	1,634.9	212.64	8.689		
7,300.0	7,282.4	7,262.2	7,257.3	9.8	205.4	-155.96	-1,301.3	-728.6	1,854.6	1,639.8	214.77	8.635		
7,400.0	7,382.0	7,353.2	7,348.3	10.0	207.2	-156.06	-1,301.6	-728.6	1,862.8	1,646.0	216.73	8.595		
7,500.0	7,481.6	7,461.9	7,457.0	10.1	209.4	-156.19	-1,302.4	-728.6	1,871.5	1,652.4	219.04	8.544		
7,600.0	7,581.2	7,561.6	7,556.6	10.2	211.2	-156.30	-1,302.4	-728.6	1,879.5	1,658.5	220.95	8.506		
7,700.0	7,680.8	7,661.2	7,656.2	10.3	213.0	-156.40	-1,302.4	-728.6	1,887.5	1,664.6	222.86	8.469		
7,800.0	7,780.5	7,757.3	7,752.4	10.5	214.7	-156.50	-1,301.7	-728.6	1,894.8	1,670.1	224.71	8.432		
7,900.0	7,880.1	7,852.2	7,847.2	10.6	216.4	-156.60	-1,302.0	-728.6	1,903.1	1,676.6	226.54	8.401		
8,000.0	7,979.7	7,960.1	7,955.1	10.7	218.3	-156.72	-1,302.4	-728.6	1,911.5	1,682.9	228.56	8.363		
8,100.0	8,079.3	8,059.7	8,054.7	10.8	220.0	-156.82	-1,302.4	-728.6	1,919.5	1,689.1	230.37	8.332		
8,200.0	8,178.9	8,156.8	8,151.8	10.9	221.6	-156.91	-1,301.8	-728.6	1,926.9	1,694.8	232.13	8.301		
8,300.0	8,278.6	8,250.7	8,245.8	11.1	223.2	-157.01	-1,302.1	-728.6	1,935.2	1,701.4	233.84	8.276		
8,400.0	8,378.2	8,358.6	8,353.6	11.2	225.0	-157.12	-1,302.4	-728.6	1,943.6	1,707.8	235.74	8.244		
8,500.0	8,477.8	8,458.2	8,453.2	11.3	226.6	-157.22	-1,302.4	-728.6	1,951.6	1,714.1	237.45	8.219		
8,600.0	8,577.4	8,556.2	8,551.2	11.4	228.1	-157.32	-1,302.0	-728.6	1,959.2	1,720.1	239.13	8.193		
8,700.0	8,677.0	8,652.1	8,647.1	11.6	229.7	-157.41	-1,302.2	-728.6	1,967.5	1,726.7	240.78	8.171		
8,800.0	8,776.7	8,757.1	8,752.1	11.7	231.3	-157.52	-1,302.4	-728.6	1,975.7	1,733.2	242.53	8.146		
8,900.0	8,876.3	8,856.7	8,851.7	11.8	232.8	-157.61	-1,302.4	-728.6	1,983.8	1,739.7	244.14	8.126		
9,000.0	8,975.9	8,956.3	8,951.3	11.9	234.3	-157.71	-1,302.4	-728.6	1,991.9	1,746.1	245.75	8.105		
9,100.0	9,075.5	9,052.7	9,047.7	12.1	235.7	-157.80	-1,302.0	-728.6	1,999.5	1,752.2	247.32	8.085		
11,900.0	11,858.1	11,839.4	11,833.5	15.3	305.0	25.11	-1,302.4	-728.6	1,993.1	1,673.4	319.68	6.235		
11,925.0	11,878.8	11,860.1	11,854.2	15.3	305.7	26.08	-1,302.4	-728.6	1,980.0	1,659.6	320.43	6.179		
11,950.0	11,898.7	11,880.0	11,874.1	15.3	306.4	27.19	-1,302.4	-728.6	1,965.9	1,644.8	321.14	6.122		
11,975.0	11,917.7	11,899.0	11,893.1	15.4	307.1	28.45	-1,302.4	-728.6	1,950.9	1,629.1	321.83	6.062		
12,000.0	11,935.9	11,917.2	11,911.3	15.4	307.7	29.88	-1,302.4	-728.6	1,935.0	1,612.5	322.48	6.000		
12,025.0	11,953.2	11,934.5	11,928.6	15.4	308.4	31.52	-1,302.4	-728.6	1,918.3	1,595.2	323.11	5.937		
12,050.0	11,969.5	11,950.2	11,944.2	15.4	308.9	33.43	-1,298.0	-728.6	1,896.7	1,573.1	323.67	5.860		
12,075.0	11,984.8	11,963.7	11,957.7	15.5	309.4	35.50	-1,298.0	-728.6	1,878.5	1,554.3	324.16	5.795		
12,100.0	11,999.0	11,976.3	11,970.3	15.5	309.8	37.86	-1,298.1	-728.6	1,859.6	1,535.0	324.61	5.729		
12,125.0	12,012.2	11,988.0	11,982.0	15.5	310.2	40.53	-1,298.1	-728.6	1,840.1	1,515.1	325.04	5.661		
12,150.0	12,024.2	11,998.7	11,992.7	15.5	310.6	43.56	-1,298.1	-728.6	1,820.0	1,494.6	325.42	5.593		
12,175.0	12,035.0	12,008.4	12,002.4	15.5	311.0	46.99	-1,298.2	-728.6	1,799.5	1,473.7	325.77	5.524		

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

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COMPASS 5000.15 Build 91E

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - PADUCA 30 FEDERAL #1 - OWB - INC ONLY -													Offset Site Error:	0.0 usft
Survey Program: 285-INC-ONLY													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,200.0	12,044.6	12,017.1	12,011.0	15.6	311.3	50.85		-1,298.2	-728.6	1,778.5	1,452.4	326.08	5.454	
12,225.0	12,053.1	12,024.7	12,018.6	15.6	311.5	55.16		-1,298.3	-728.6	1,757.1	1,430.7	326.35	5.384	
12,250.0	12,060.3	12,031.2	12,025.2	15.6	311.8	59.94		-1,298.3	-728.6	1,735.4	1,408.8	326.59	5.314	
12,275.0	12,066.2	12,036.6	12,030.6	15.6	312.0	65.15		-1,298.3	-728.6	1,713.4	1,386.6	326.78	5.243	
12,300.0	12,070.8	12,041.0	12,034.9	15.6	312.1	70.75		-1,298.4	-728.6	1,691.3	1,364.3	326.93	5.173	
12,325.0	12,074.2	12,044.1	12,038.1	15.6	312.2	76.64		-1,298.4	-728.6	1,669.0	1,341.9	327.04	5.103	
12,350.0	12,076.2	12,046.1	12,040.1	15.6	312.3	82.67		-1,298.4	-728.6	1,646.6	1,319.5	327.11	5.034	
12,377.2	12,077.0	12,047.0	12,040.9	15.6	312.3	89.22		-1,298.4	-728.6	1,622.4	1,295.2	327.13	4.959	
12,400.0	12,076.9	12,047.1	12,041.1	15.6	312.3	89.23		-1,298.4	-728.6	1,602.0	1,274.9	327.13	4.897	
12,500.0	12,076.8	12,047.8	12,041.7	15.7	312.4	89.28		-1,298.4	-728.6	1,513.7	1,186.6	327.14	4.627	
12,600.0	12,076.7	12,048.4	12,042.3	15.7	312.4	89.33		-1,298.4	-728.6	1,426.9	1,099.8	327.15	4.362	
12,700.0	12,076.6	12,049.0	12,043.0	15.7	312.4	89.38		-1,298.4	-728.6	1,342.0	1,014.8	327.19	4.102	
12,800.0	12,076.5	12,049.7	12,043.6	15.8	312.4	89.43		-1,298.4	-728.6	1,259.3	932.1	327.26	3.848	
12,900.0	12,076.4	12,050.3	12,044.3	15.8	312.5	89.48		-1,298.4	-728.6	1,179.3	851.9	327.36	3.602	
13,000.0	12,076.3	12,051.0	12,045.0	15.8	312.5	89.53		-1,298.4	-728.6	1,102.5	775.0	327.52	3.366	
13,100.0	12,076.2	12,051.7	12,045.6	15.9	312.5	89.59		-1,298.5	-728.6	1,029.8	702.0	327.75	3.142	
13,200.0	12,076.1	12,052.4	12,046.3	15.9	312.5	89.64		-1,298.5	-728.6	961.9	633.9	328.07	2.932	
13,300.0	12,076.0	12,053.1	12,047.0	16.0	312.6	89.69		-1,298.5	-728.6	900.1	571.6	328.49	2.740	
13,400.0	12,075.9	12,053.8	12,047.7	16.7	312.6	89.75		-1,298.5	-728.6	845.6	516.5	329.05	2.570	
13,500.0	12,075.8	12,054.5	12,048.4	17.4	312.6	89.81		-1,298.5	-728.6	799.9	470.2	329.73	2.426	
13,600.0	12,075.7	12,055.2	12,049.2	18.1	312.6	89.86		-1,298.5	-728.6	764.7	434.1	330.52	2.314	
13,700.0	12,075.6	12,056.0	12,049.9	18.8	312.7	89.92		-1,298.5	-728.6	741.3	410.0	331.36	2.237	
13,800.0	12,075.5	12,056.7	12,050.7	19.5	312.7	89.98		-1,298.5	-728.6	731.0	398.8	332.19	2.201	
13,825.8	12,075.5	12,056.9	12,050.9	19.7	312.7	90.00		-1,298.5	-728.6	730.6	398.2	332.39	2.198	CC, ES, SF
13,900.0	12,075.4	12,057.5	12,051.4	20.3	312.7	90.04		-1,298.5	-728.6	734.3	401.4	332.93	2.206	
14,000.0	12,075.3	12,058.3	12,052.2	21.0	312.7	90.10		-1,298.5	-728.6	751.1	417.6	333.52	2.252	
14,100.0	12,075.2	12,059.1	12,053.0	21.8	312.8	90.16		-1,298.5	-728.6	780.4	446.4	333.94	2.337	
14,200.0	12,075.1	12,059.9	12,053.8	22.5	312.8	90.23		-1,298.5	-728.6	820.9	486.6	334.20	2.456	
14,300.0	12,075.0	12,060.7	12,054.6	23.3	312.8	90.29		-1,298.5	-728.6	871.0	536.7	334.34	2.605	
14,400.0	12,074.9	12,061.5	12,055.5	24.1	312.9	90.36		-1,298.5	-728.6	929.2	594.9	334.38	2.779	
14,500.0	12,074.8	12,062.3	12,056.3	24.9	312.9	90.42		-1,298.5	-728.6	994.1	659.8	334.36	2.973	
14,600.0	12,074.7	12,063.2	12,057.2	25.7	312.9	90.49		-1,298.6	-728.6	1,064.5	730.2	334.31	3.184	
14,700.0	12,074.6	12,064.1	12,058.0	26.4	312.9	90.56		-1,298.6	-728.6	1,139.3	805.1	334.24	3.409	
14,800.0	12,074.5	12,065.0	12,058.9	27.2	313.0	90.63		-1,298.6	-728.6	1,217.7	883.5	334.17	3.644	
14,900.0	12,074.4	12,065.9	12,059.8	28.0	313.0	90.70		-1,298.6	-728.6	1,299.1	965.0	334.10	3.888	
15,000.0	12,074.3	12,066.8	12,060.7	28.9	313.0	90.77		-1,298.6	-728.6	1,382.9	1,048.9	334.05	4.140	
15,100.0	12,074.2	12,067.7	12,061.7	29.7	313.1	90.84		-1,298.6	-728.6	1,468.8	1,134.8	334.00	4.398	
15,200.0	12,074.1	12,068.7	12,062.6	30.5	313.1	90.92		-1,298.6	-728.6	1,556.3	1,222.4	333.97	4.660	
15,300.0	12,074.0	12,069.6	12,063.6	31.3	313.1	90.99		-1,298.6	-728.6	1,645.3	1,311.3	333.95	4.927	
15,400.0	12,073.9	12,070.6	12,064.6	32.1	313.2	91.07		-1,298.6	-728.6	1,735.5	1,401.5	333.94	5.197	
15,500.0	12,073.8	12,071.6	12,065.6	32.9	313.2	91.15		-1,298.6	-728.6	1,826.7	1,492.7	333.95	5.470	
15,600.0	12,073.7	12,072.6	12,066.6	33.7	313.2	91.23		-1,298.6	-728.6	1,918.7	1,584.8	333.96	5.745	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FED #701H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11520-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	89.43	0.3	30.0	30.0				
100.0	100.0	99.5	99.5	3.0	3.0	89.43	0.3	30.0	30.0	24.0	6.00	5.000	
200.0	200.0	199.5	199.5	3.0	3.0	89.43	0.3	30.0	30.0	24.0	6.00	4.998	
300.0	300.0	299.5	299.5	3.0	3.0	89.43	0.3	30.0	30.0	24.0	6.01	4.993	
400.0	400.0	399.5	399.5	3.0	3.0	89.43	0.3	30.0	30.0	24.0	6.02	4.985	
500.0	500.0	499.5	499.5	3.1	3.1	89.43	0.3	30.0	30.0	24.0	6.03	4.975	
600.0	600.0	599.5	599.5	3.1	3.1	89.43	0.3	30.0	30.0	24.0	6.05	4.962	
700.0	700.0	699.5	699.5	3.1	3.1	89.43	0.3	30.0	30.0	23.9	6.07	4.946	
800.0	800.0	799.5	799.5	3.2	3.2	89.43	0.3	30.0	30.0	23.9	6.09	4.928	
900.0	900.0	899.5	899.5	3.2	3.2	89.43	0.3	30.0	30.0	23.9	6.11	4.908	
1,000.0	1,000.0	999.5	999.5	3.2	3.2	89.43	0.3	30.0	30.0	23.9	6.14	4.885	
1,100.0	1,100.0	1,099.5	1,099.5	3.3	3.3	89.43	0.3	30.0	30.0	23.8	6.17	4.861	
1,200.0	1,200.0	1,199.5	1,199.5	3.4	3.4	89.43	0.3	30.0	30.0	23.8	6.21	4.834	
1,300.0	1,300.0	1,299.5	1,299.5	3.4	3.4	89.43	0.3	30.0	30.0	23.8	6.24	4.805	
1,400.0	1,400.0	1,399.5	1,399.5	3.5	3.5	89.43	0.3	30.0	30.0	23.7	6.28	4.775	
1,500.0	1,500.0	1,499.5	1,499.5	3.5	3.5	89.43	0.3	30.0	30.0	23.7	6.33	4.742	
1,600.0	1,600.0	1,599.5	1,599.5	3.6	3.6	89.43	0.3	30.0	30.0	23.6	6.37	4.708	
1,700.0	1,700.0	1,699.5	1,699.5	3.7	3.7	89.43	0.3	30.0	30.0	23.6	6.42	4.673	
1,800.0	1,800.0	1,799.5	1,799.5	3.8	3.8	89.43	0.3	30.0	30.0	23.5	6.47	4.636	
1,900.0	1,900.0	1,899.5	1,899.5	3.9	3.9	89.43	0.3	30.0	30.0	23.5	6.53	4.598	
2,000.0	2,000.0	1,999.5	1,999.5	3.9	3.9	89.43	0.3	30.0	30.0	23.4	6.58	4.559	
2,100.0	2,100.0	2,099.5	2,099.5	4.0	4.0	89.43	0.3	30.0	30.0	23.4	6.64	4.518	
2,200.0	2,200.0	2,199.5	2,199.5	4.1	4.1	89.43	0.3	30.0	30.0	23.3	6.70	4.477	
2,300.0	2,300.0	2,299.5	2,299.5	4.2	4.2	89.43	0.3	30.0	30.0	23.2	6.76	4.435	
2,400.0	2,400.0	2,399.5	2,399.5	4.3	4.3	89.43	0.3	30.0	30.0	23.2	6.83	4.393	
2,500.0	2,500.0	2,499.5	2,499.5	4.4	4.4	89.43	0.3	30.0	30.0	23.1	6.90	4.349 CC, ES, SF	
2,600.0	2,600.0	2,598.5	2,598.5	4.5	4.5	92.32	1.0	31.5	31.6	24.6	6.97	4.534	
2,700.0	2,699.8	2,697.5	2,697.3	4.6	4.5	96.78	3.2	36.1	36.5	29.4	7.05	5.175	
2,750.0	2,749.7	2,747.3	2,747.1	4.6	4.6	99.92	4.6	39.0	39.8	32.7	7.12	5.590	
2,800.0	2,799.5	2,797.2	2,796.8	4.7	4.6	103.19	6.0	41.9	43.3	36.1	7.19	6.015	
2,900.0	2,899.1	2,896.8	2,896.2	4.8	4.7	108.35	8.7	47.7	50.6	43.2	7.36	6.873	
3,000.0	2,998.7	2,996.4	2,995.7	4.9	4.7	112.19	11.5	53.5	58.2	50.7	7.52	7.733	
3,100.0	3,098.4	3,096.1	3,095.1	5.0	4.8	115.13	14.3	59.3	66.0	58.3	7.68	8.588	
3,200.0	3,198.0	3,195.7	3,194.5	5.1	4.9	117.44	17.0	65.1	73.9	66.1	7.84	9.432	
3,300.0	3,297.6	3,295.4	3,294.0	5.2	4.9	119.30	19.8	70.9	82.0	74.0	7.99	10.261	
3,400.0	3,397.2	3,395.0	3,393.4	5.3	5.0	120.83	22.5	76.7	90.1	81.9	8.13	11.074	
3,500.0	3,496.8	3,494.7	3,492.9	5.4	5.1	122.11	25.3	82.5	98.2	90.0	8.28	11.867	
3,600.0	3,596.4	3,594.3	3,592.3	5.5	5.2	123.19	28.0	88.3	106.5	98.0	8.42	12.641	
3,700.0	3,696.1	3,694.0	3,691.7	5.6	5.3	124.11	30.8	94.1	114.7	106.1	8.56	13.395	
3,800.0	3,795.7	3,793.6	3,791.2	5.7	5.3	124.91	33.6	99.9	123.0	114.2	8.70	14.128	
3,900.0	3,895.3	3,893.2	3,890.6	5.8	5.4	125.61	36.3	105.7	131.2	122.4	8.84	14.840	
4,000.0	3,994.9	3,992.9	3,990.0	5.9	5.5	126.23	39.1	111.4	139.5	130.6	8.98	15.530	
4,100.0	4,094.5	4,092.5	4,089.5	6.0	5.6	126.78	41.8	117.2	147.9	138.7	9.13	16.200	
4,200.0	4,194.2	4,192.2	4,188.9	6.2	5.7	127.26	44.6	123.0	156.2	146.9	9.27	16.848	
4,300.0	4,293.8	4,291.8	4,288.4	6.3	5.8	127.70	47.4	128.8	164.5	155.1	9.41	17.476	
4,400.0	4,393.4	4,391.5	4,387.8	6.4	5.9	128.10	50.1	134.6	172.9	163.3	9.56	18.084	
4,500.0	4,493.0	4,491.1	4,487.2	6.5	6.0	128.46	52.9	140.4	181.2	171.5	9.71	18.672	
4,600.0	4,592.6	4,590.7	4,586.7	6.6	6.1	128.79	55.6	146.2	189.6	179.7	9.85	19.241	
4,700.0	4,692.3	4,690.4	4,686.1	6.7	6.2	129.09	58.4	152.0	197.9	187.9	10.00	19.790	
4,800.0	4,791.9	4,790.0	4,785.5	6.8	6.3	129.37	61.2	157.8	206.3	196.2	10.15	20.321	
4,900.0	4,891.5	4,889.7	4,885.0	7.0	6.4	129.62	63.9	163.6	214.7	204.4	10.30	20.834	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FED #701H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11520-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,991.1	4,989.3	4,984.4	7.1	6.5	129.86	66.7	169.4	223.1	212.6	10.46	21.329	
5,100.0	5,090.7	5,089.0	5,083.9	7.2	6.6	130.08	69.4	175.2	231.4	220.8	10.61	21.808	
5,200.0	5,190.4	5,188.6	5,183.3	7.3	6.7	130.28	72.2	181.0	239.8	229.1	10.77	22.269	
5,300.0	5,290.0	5,288.3	5,282.7	7.4	6.8	130.47	75.0	186.8	248.2	237.3	10.93	22.715	
5,400.0	5,389.6	5,387.9	5,382.2	7.5	6.9	130.65	77.7	192.6	256.6	245.5	11.09	23.144	
5,500.0	5,489.2	5,487.5	5,481.6	7.7	7.0	130.81	80.5	198.4	265.0	253.8	11.25	23.559	
5,600.0	5,588.8	5,587.2	5,581.0	7.8	7.1	130.97	83.2	204.2	273.4	262.0	11.41	23.959	
5,700.0	5,688.5	5,686.8	5,680.5	7.9	7.2	131.12	86.0	210.0	281.8	270.2	11.58	24.345	
5,800.0	5,788.1	5,786.5	5,779.9	8.0	7.3	131.25	88.8	215.8	290.2	278.5	11.74	24.717	
5,900.0	5,887.7	5,886.1	5,879.4	8.1	7.4	131.38	91.5	221.5	298.6	286.7	11.91	25.076	
6,000.0	5,987.3	5,985.8	5,978.8	8.3	7.5	131.51	94.3	227.3	307.0	294.9	12.08	25.422	
6,100.0	6,086.9	6,085.4	6,078.2	8.4	7.7	131.62	97.0	233.1	315.4	303.2	12.25	25.756	
6,200.0	6,186.6	6,185.1	6,177.7	8.5	7.8	131.73	99.8	238.9	323.8	311.4	12.42	26.077	
6,300.0	6,286.2	6,284.7	6,277.1	8.6	7.9	131.84	102.6	244.7	332.2	319.6	12.59	26.387	
6,400.0	6,385.8	6,384.3	6,376.5	8.7	8.0	131.94	105.3	250.5	340.6	327.9	12.76	26.686	
6,500.0	6,485.4	6,484.0	6,476.0	8.9	8.1	132.03	108.1	256.3	349.0	336.1	12.94	26.975	
6,600.0	6,585.0	6,583.6	6,575.4	9.0	8.2	132.12	110.8	262.1	357.4	344.3	13.12	27.252	
6,700.0	6,684.7	6,683.3	6,674.8	9.1	8.3	132.21	113.6	267.9	365.8	352.5	13.29	27.520	
6,800.0	6,784.3	6,782.9	6,774.3	9.2	8.4	132.29	116.3	273.7	374.3	360.8	13.47	27.778	
6,900.0	6,883.9	6,882.6	6,873.7	9.3	8.6	132.37	119.1	279.5	382.7	369.0	13.65	28.027	
7,000.0	6,983.5	6,982.2	6,973.2	9.5	8.7	132.45	121.9	285.3	391.1	377.2	13.84	28.267	
7,100.0	7,083.1	7,081.9	7,072.6	9.6	8.8	132.52	124.6	291.1	399.5	385.5	14.02	28.498	
7,200.0	7,182.7	7,181.5	7,172.0	9.7	8.9	132.59	127.4	296.9	407.9	393.7	14.20	28.720	
7,300.0	7,282.4	7,281.1	7,271.5	9.8	9.0	132.66	130.1	302.7	416.3	401.9	14.39	28.935	
7,400.0	7,382.0	7,380.8	7,370.9	10.0	9.1	132.72	132.9	308.5	424.7	410.2	14.57	29.142	
7,500.0	7,481.6	7,480.4	7,470.3	10.1	9.3	132.78	135.7	314.3	433.1	418.4	14.76	29.341	
7,600.0	7,581.2	7,580.1	7,569.8	10.2	9.4	132.84	138.4	320.1	441.6	426.6	14.95	29.533	
7,700.0	7,680.8	7,679.7	7,669.2	10.3	9.5	132.90	141.2	325.9	450.0	434.8	15.14	29.718	
7,800.0	7,780.5	7,779.4	7,768.7	10.5	9.6	132.95	143.9	331.6	458.4	443.1	15.33	29.896	
7,900.0	7,880.1	7,879.0	7,868.1	10.6	9.7	133.00	146.7	337.4	466.8	451.3	15.53	30.068	
8,000.0	7,979.7	7,978.7	7,967.5	10.7	9.8	133.06	149.5	343.2	475.2	459.5	15.72	30.233	
8,100.0	8,079.3	8,078.3	8,067.0	10.8	10.0	133.10	152.2	349.0	483.6	467.7	15.91	30.392	
8,200.0	8,178.9	8,177.9	8,166.4	10.9	10.1	133.15	155.0	354.8	492.1	475.9	16.11	30.546	
8,300.0	8,278.6	8,277.6	8,265.8	11.1	10.2	133.20	157.7	360.6	500.5	484.2	16.31	30.694	
8,400.0	8,378.2	8,377.2	8,365.3	11.2	10.3	133.24	160.5	366.4	508.9	492.4	16.50	30.836	
8,500.0	8,477.8	8,476.9	8,464.7	11.3	10.4	133.28	163.3	372.2	517.3	500.6	16.70	30.973	
8,600.0	8,577.4	8,576.5	8,564.2	11.4	10.6	133.33	166.0	378.0	525.7	508.8	16.90	31.105	
8,700.0	8,677.0	8,676.2	8,663.6	11.6	10.7	133.37	168.8	383.8	534.1	517.0	17.10	31.232	
8,800.0	8,776.7	8,775.8	8,763.0	11.7	10.8	133.41	171.5	389.6	542.6	525.3	17.30	31.354	
8,900.0	8,876.3	8,875.5	8,862.5	11.8	10.9	133.44	174.3	395.4	551.0	533.5	17.51	31.472	
9,000.0	8,975.9	8,975.1	8,961.9	11.9	11.0	133.48	177.1	401.2	559.4	541.7	17.71	31.585	
9,100.0	9,075.5	9,074.7	9,061.3	12.1	11.2	133.52	179.8	407.0	567.8	549.9	17.92	31.694	
9,200.0	9,175.1	9,174.4	9,160.8	12.2	11.3	133.55	182.6	412.8	576.2	558.1	18.12	31.799	
9,300.0	9,274.8	9,274.0	9,260.2	12.3	11.4	133.58	185.3	418.6	584.7	566.3	18.33	31.900	
9,400.0	9,374.4	9,373.7	9,359.7	12.5	11.5	133.62	188.1	424.4	593.1	574.5	18.54	31.997	
9,500.0	9,474.0	9,473.3	9,459.1	12.6	11.6	133.65	190.9	430.2	601.5	582.8	18.74	32.090	
9,600.0	9,573.6	9,573.0	9,558.5	12.7	11.8	133.68	193.6	436.0	609.9	591.0	18.95	32.180	
9,642.4	9,615.8	9,615.2	9,600.7	12.8	11.8	133.69	196.4	438.4	613.5	594.4	19.04	32.217	
9,700.0	9,673.3	9,672.6	9,658.0	12.8	11.9	133.72	199.4	441.7	618.1	599.0	19.16	32.259	
9,800.0	9,773.0	9,772.4	9,757.5	13.0	12.0	133.68	199.1	447.5	625.3	605.9	19.36	32.295	
9,900.0	9,872.9	9,872.2	9,857.1	13.1	12.1	133.51	201.9	453.4	631.2	611.7	19.54	32.296	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FED #701H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11520-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,000.0	9,972.8	9,972.0	9,956.7	13.2	12.3	133.23	204.7	459.2	635.9	616.2	19.71	32.260	
10,100.0	10,072.8	10,071.8	10,056.3	13.3	12.4	132.83	207.4	465.0	639.5	619.6	19.88	32.176	
10,142.4	10,115.2	10,114.1	10,098.5	13.4	12.4	131.54	208.6	467.4	640.7	620.7	19.94	32.127	
10,200.0	10,172.8	10,171.6	10,155.9	13.5	12.5	131.23	210.2	470.8	642.1	622.1	20.03	32.056	
10,300.0	10,272.8	10,271.4	10,255.5	13.6	12.6	130.71	213.0	476.6	644.7	624.5	20.19	31.934	
10,400.0	10,372.8	10,371.2	10,355.1	13.7	12.8	130.19	215.7	482.4	647.4	627.0	20.35	31.816	
10,500.0	10,472.8	10,471.0	10,454.7	13.8	12.9	129.67	218.5	488.2	650.0	629.5	20.51	31.701	
10,600.0	10,572.8	10,570.8	10,554.3	14.0	13.0	129.16	221.2	494.0	652.8	632.1	20.67	31.589	
10,700.0	10,672.8	10,670.6	10,653.9	14.1	13.1	128.65	224.0	499.8	655.6	634.8	20.83	31.480	
10,800.0	10,772.8	10,770.4	10,753.4	14.2	13.2	128.15	226.8	505.6	658.4	637.4	20.99	31.374	
10,900.0	10,872.8	10,870.2	10,853.0	14.4	13.4	127.65	229.5	511.4	661.3	640.2	21.15	31.270	
11,000.0	10,972.8	10,969.9	10,952.6	14.5	13.5	127.15	232.3	517.2	664.3	642.9	21.31	31.170	
11,100.0	11,072.8	11,069.7	11,052.2	14.6	13.6	126.66	235.1	523.0	667.2	645.8	21.47	31.072	
11,200.0	11,172.8	11,169.5	11,151.8	14.7	13.7	126.18	237.8	528.8	670.3	648.7	21.64	30.977	
11,300.0	11,272.8	11,269.3	11,251.4	14.9	13.9	125.70	240.6	534.6	673.4	651.6	21.80	30.884	
11,400.0	11,372.8	11,369.1	11,351.0	15.0	14.0	125.22	243.4	540.4	676.5	654.5	21.97	30.794	
11,500.0	11,472.8	11,468.9	11,450.5	15.1	14.1	124.75	246.1	546.2	679.7	657.6	22.14	30.706	
11,600.0	11,572.8	11,568.7	11,550.1	15.2	14.2	124.28	248.9	552.0	682.9	660.7	22.18	30.792	
11,626.7	11,599.5	11,595.3	11,576.7	15.2	14.2	124.15	249.6	553.6	683.8	661.6	22.19	30.814	
11,650.0	11,622.8	11,618.6	11,599.9	15.2	14.2	-55.53	250.3	554.9	684.2	662.0	22.19	30.834	
11,675.0	11,647.7	11,625.0	11,606.3	15.2	14.2	-55.59	250.4	555.3	684.3	662.0	22.24	30.769	
11,700.0	11,672.5	11,641.7	11,622.9	15.2	14.2	-55.80	250.5	556.5	684.0	661.7	22.27	30.706	
11,725.0	11,697.1	11,650.0	11,631.2	15.2	14.2	-55.97	250.3	557.1	683.5	661.1	22.39	30.531	
11,750.0	11,721.5	11,663.8	11,645.0	15.2	14.2	-56.27	249.7	558.4	682.8	660.3	22.48	30.371	
11,775.0	11,745.4	11,675.0	11,656.1	15.2	14.2	-56.58	249.0	559.5	681.9	659.3	22.63	30.138	
11,800.0	11,769.0	11,685.8	11,666.7	15.2	14.3	-56.93	248.0	560.7	680.8	658.0	22.80	29.859	
11,825.0	11,792.2	11,700.0	11,680.8	15.3	14.3	-57.42	246.5	562.5	679.6	656.7	22.94	29.623	
11,850.0	11,814.8	11,707.5	11,688.2	15.3	14.3	-57.77	245.5	563.5	678.1	654.9	23.21	29.211	
11,875.0	11,836.8	11,718.3	11,698.7	15.3	14.3	-58.26	243.9	565.0	676.6	653.1	23.45	28.852	
11,900.0	11,858.1	11,725.0	11,705.3	15.3	14.3	-58.65	242.8	565.9	674.9	651.1	23.79	28.364	
11,925.0	11,878.8	11,739.6	11,719.5	15.3	14.3	-59.35	240.1	568.2	673.0	649.0	23.96	28.089	
11,950.0	11,898.7	11,750.0	11,729.5	15.3	14.3	-59.95	238.0	569.9	671.1	646.8	24.23	27.692	
11,975.0	11,917.7	11,760.6	11,739.6	15.4	14.3	-60.59	235.6	571.8	669.1	644.6	24.50	27.306	
12,000.0	11,935.9	11,775.0	11,753.3	15.4	14.3	-61.43	232.0	574.5	667.0	642.4	24.66	27.048	
12,025.0	11,953.2	11,775.0	11,753.3	15.4	14.3	-61.65	232.0	574.5	665.0	639.7	25.24	26.345	
12,050.0	11,969.5	11,791.4	11,768.7	15.4	14.3	-62.66	227.4	577.7	662.8	637.5	25.32	26.182	
12,075.0	11,984.8	11,800.0	11,776.7	15.5	14.3	-63.31	224.9	579.5	660.8	635.1	25.62	25.790	
12,100.0	11,999.0	11,811.3	11,787.2	15.5	14.3	-64.13	221.3	581.9	658.8	632.9	25.82	25.512	
12,125.0	12,012.2	11,825.0	11,799.7	15.5	14.3	-65.11	216.6	585.0	656.8	630.9	25.93	25.336	
12,150.0	12,024.2	11,825.0	11,799.7	15.5	14.3	-65.30	216.6	585.0	655.1	628.6	26.47	24.751	
12,175.0	12,035.0	11,840.3	11,813.4	15.5	14.3	-66.40	211.1	588.6	653.3	626.9	26.47	24.687	
12,200.0	12,044.6	11,850.0	11,822.1	15.6	14.3	-67.18	207.3	591.0	651.8	625.2	26.63	24.481	
12,225.0	12,053.1	11,858.7	11,829.8	15.6	14.3	-67.89	203.8	593.2	650.6	623.8	26.79	24.281	
12,250.0	12,060.3	11,867.7	11,837.6	15.6	14.3	-68.61	200.0	595.5	649.5	622.6	26.92	24.126	
12,275.0	12,066.2	11,875.0	11,843.9	15.6	14.3	-69.19	196.9	597.4	648.7	621.6	27.07	23.960	
12,300.0	12,070.8	11,885.1	11,852.5	15.6	14.3	-69.96	192.4	600.1	648.2	621.1	27.10	23.917	
12,325.0	12,074.2	11,893.4	11,859.6	15.6	14.3	-70.59	188.6	602.4	648.0	620.9	27.16	23.863	
12,325.1	12,074.2	11,893.5	11,859.6	15.6	14.3	-70.59	188.5	602.5	648.0	620.9	27.16	23.862	
12,350.0	12,076.2	11,900.0	11,865.0	15.6	14.3	-71.05	185.5	604.3	648.2	621.0	27.24	23.799	
12,377.2	12,077.0	11,910.1	11,873.3	15.6	14.3	-71.75	180.6	607.2	648.8	621.6	27.20	23.856	
12,400.0	12,076.9	11,917.3	11,879.2	15.6	14.3	-72.29	177.0	609.3	649.9	622.7	27.20	23.896	

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

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COMPASS 5000.15 Build 91E

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FED #701H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11520-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
12,500.0	12,076.8	11,950.0	11,905.1	15.7	14.3	-74.73	159.6	619.3	662.2	634.9	27.30	24.253	
12,600.0	12,076.7	11,997.0	11,939.7	15.7	14.4	-78.00	131.9	634.8	685.7	658.4	27.33	25.087	
12,700.0	12,076.6	12,051.7	11,975.9	15.7	14.4	-81.37	95.8	654.3	718.1	690.6	27.53	26.080	
12,800.0	12,076.5	12,119.3	12,013.7	15.8	14.5	-84.80	46.3	680.3	756.7	728.9	27.87	27.148	
12,900.0	12,076.4	12,201.2	12,048.5	15.8	14.6	-87.79	-19.8	713.9	798.8	770.4	28.38	28.149	
13,000.0	12,076.3	12,296.2	12,072.3	15.8	14.8	-89.71	-102.1	754.3	841.7	812.7	29.02	29.003	
13,100.0	12,076.2	12,434.8	12,078.0	15.9	15.2	-90.13	-227.7	812.2	883.4	853.6	29.77	29.677	
13,200.0	12,076.1	12,691.5	12,077.7	15.9	16.1	-90.12	-472.2	889.2	912.9	882.1	30.74	29.694	
13,300.0	12,076.0	12,968.9	12,077.4	16.0	17.2	-90.11	-747.2	922.0	924.0	892.2	31.88	28.983	
13,400.0	12,075.9	13,082.4	12,077.3	16.7	17.6	-90.11	-860.7	923.0	924.1	891.0	33.06	27.953	
13,500.0	12,075.8	13,182.4	12,077.2	17.4	18.1	-90.11	-960.7	923.7	924.1	889.8	34.28	26.956	
13,600.0	12,075.7	13,282.4	12,077.1	18.1	18.6	-90.11	-1,060.7	924.4	924.1	888.5	35.55	25.997	
13,700.0	12,075.6	13,382.4	12,077.0	18.8	19.1	-90.11	-1,160.7	925.1	924.1	887.2	36.85	25.078	
13,800.0	12,075.5	13,482.4	12,076.9	19.5	19.6	-90.11	-1,260.7	925.9	924.1	885.9	38.18	24.202	
13,900.0	12,075.4	13,582.4	12,076.8	20.3	20.2	-90.11	-1,360.7	926.6	924.1	884.5	39.55	23.367	
14,000.0	12,075.3	13,682.4	12,076.7	21.0	20.7	-90.11	-1,460.7	927.3	924.1	883.1	40.94	22.572	
14,100.0	12,075.2	13,782.4	12,076.5	21.8	21.3	-90.11	-1,560.7	928.0	924.1	881.7	42.36	21.817	
14,200.0	12,075.1	13,882.4	12,076.4	22.5	22.0	-90.11	-1,660.7	928.8	924.1	880.3	43.79	21.101	
14,300.0	12,075.0	13,982.4	12,076.3	23.3	22.6	-90.11	-1,760.7	929.5	924.1	878.8	45.25	20.421	
14,400.0	12,074.9	14,082.4	12,076.2	24.1	23.3	-90.11	-1,860.7	930.2	924.1	877.3	46.73	19.776	
14,500.0	12,074.8	14,182.4	12,076.1	24.9	23.9	-90.11	-1,960.7	930.9	924.1	875.9	48.22	19.164	
14,600.0	12,074.7	14,282.4	12,076.0	25.7	24.6	-90.11	-2,060.7	931.7	924.1	874.3	49.73	18.583	
14,700.0	12,074.6	14,382.4	12,075.9	26.4	25.3	-90.11	-2,160.7	932.4	924.1	872.8	51.25	18.031	
14,800.0	12,074.5	14,482.4	12,075.8	27.2	26.0	-90.11	-2,260.7	933.1	924.1	871.3	52.78	17.507	
14,900.0	12,074.4	14,582.4	12,075.7	28.0	26.7	-90.11	-2,360.7	933.9	924.1	869.7	54.33	17.009	
15,000.0	12,074.3	14,682.4	12,075.6	28.9	27.5	-90.11	-2,460.7	934.6	924.1	868.2	55.88	16.535	
15,100.0	12,074.2	14,782.4	12,075.5	29.7	28.2	-90.11	-2,560.7	935.3	924.1	866.6	57.45	16.085	
15,200.0	12,074.1	14,882.4	12,075.4	30.5	28.9	-90.11	-2,660.7	936.0	924.1	865.0	59.02	15.656	
15,300.0	12,074.0	14,982.4	12,075.3	31.3	29.7	-90.11	-2,760.7	936.8	924.1	863.5	60.61	15.247	
15,400.0	12,073.9	15,082.4	12,075.2	32.1	30.4	-90.11	-2,860.7	937.5	924.1	861.9	62.20	14.857	
15,500.0	12,073.8	15,182.4	12,075.1	32.9	31.2	-90.11	-2,960.7	938.2	924.1	860.3	63.79	14.485	
15,600.0	12,073.7	15,282.4	12,075.0	33.7	32.0	-90.11	-3,060.7	938.9	924.1	858.7	65.40	14.130	
15,700.0	12,073.6	15,382.4	12,074.9	34.6	32.7	-90.11	-3,160.7	939.7	924.1	857.1	67.01	13.790	
15,800.0	12,073.5	15,482.4	12,074.8	35.4	33.5	-90.11	-3,260.7	940.4	924.1	855.4	68.62	13.466	
15,900.0	12,073.4	15,582.4	12,074.7	36.2	34.3	-90.11	-3,360.7	941.1	924.1	853.8	70.24	13.155	
16,000.0	12,073.3	15,682.4	12,074.6	37.0	35.1	-90.11	-3,460.7	941.8	924.1	852.2	71.87	12.857	
16,100.0	12,073.2	15,782.4	12,074.5	37.9	35.9	-90.11	-3,560.7	942.6	924.1	850.6	73.50	12.572	
16,200.0	12,073.1	15,882.4	12,074.4	38.7	36.7	-90.11	-3,660.7	943.3	924.1	848.9	75.13	12.299	
16,300.0	12,073.0	15,982.4	12,074.3	39.5	37.5	-90.11	-3,760.7	944.0	924.1	847.3	76.77	12.036	
16,400.0	12,072.9	16,082.4	12,074.2	40.4	38.3	-90.11	-3,860.7	944.7	924.0	845.6	78.41	11.784	
16,500.0	12,072.8	16,182.4	12,074.1	41.2	39.1	-90.11	-3,960.7	945.5	924.0	844.0	80.06	11.542	
16,600.0	12,072.7	16,282.4	12,074.0	42.0	39.9	-90.11	-4,060.7	946.2	924.0	842.3	81.71	11.309	
16,700.0	12,072.6	16,382.4	12,073.9	42.9	40.7	-90.11	-4,160.7	946.9	924.0	840.7	83.36	11.085	
16,800.0	12,072.5	16,482.4	12,073.8	43.7	41.5	-90.11	-4,260.7	947.6	924.0	839.0	85.01	10.869	
16,900.0	12,072.4	16,582.4	12,073.6	44.6	42.3	-90.11	-4,360.7	948.4	924.0	837.4	86.67	10.662	
17,000.0	12,072.3	16,682.4	12,073.5	45.4	43.1	-90.11	-4,460.6	949.1	924.0	835.7	88.33	10.461	
17,100.0	12,072.2	16,782.4	12,073.4	46.2	43.9	-90.10	-4,560.6	949.8	924.0	834.0	89.99	10.268	
17,200.0	12,072.1	16,882.4	12,073.3	47.1	44.7	-90.10	-4,660.6	950.5	924.0	832.4	91.66	10.081	
17,300.0	12,072.0	16,982.4	12,073.2	47.9	45.6	-90.10	-4,760.6	951.3	924.0	830.7	93.32	9.901	
17,400.0	12,071.9	17,082.4	12,073.1	48.8	46.4	-90.10	-4,860.6	952.0	924.0	829.0	94.99	9.727	
17,500.0	12,071.8	17,182.4	12,073.0	49.6	47.2	-90.10	-4,960.6	952.7	924.0	827.4	96.66	9.559	

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

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COMPASS 5000.15 Build 91E

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FED #701H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11520-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
17,600.0	12,071.7	17,282.4	12,072.9	50.5	48.0	-90.10	-5,060.6	953.4	924.0	825.7	98.34	9.397	
17,700.0	12,071.7	17,382.4	12,072.8	51.3	48.9	-90.10	-5,160.6	954.2	924.0	824.0	100.01	9.239	
17,800.0	12,071.6	17,482.4	12,072.7	52.1	49.7	-90.10	-5,260.6	954.9	924.0	822.3	101.69	9.087	
17,900.0	12,071.5	17,582.4	12,072.6	53.0	50.5	-90.10	-5,360.6	955.6	924.0	820.7	103.36	8.940	
18,000.0	12,071.4	17,682.4	12,072.5	53.8	51.3	-90.10	-5,460.6	956.3	924.0	819.0	105.04	8.797	
18,100.0	12,071.3	17,782.4	12,072.4	54.7	52.2	-90.10	-5,560.6	957.1	924.0	817.3	106.72	8.658	
18,200.0	12,071.2	17,882.4	12,072.3	55.5	53.0	-90.10	-5,660.6	957.8	924.0	815.6	108.41	8.524	
18,300.0	12,071.1	17,982.4	12,072.2	56.4	53.8	-90.10	-5,760.6	958.5	924.0	813.9	110.09	8.393	
18,400.0	12,071.0	18,082.4	12,072.1	57.2	54.7	-90.10	-5,860.6	959.2	924.0	812.2	111.77	8.267	
18,500.0	12,070.9	18,182.4	12,072.0	58.1	55.5	-90.10	-5,960.6	960.0	924.0	810.6	113.46	8.144	
18,600.0	12,070.8	18,282.4	12,071.9	58.9	56.3	-90.10	-6,060.6	960.7	924.0	808.9	115.15	8.025	
18,700.0	12,070.7	18,382.4	12,071.8	59.8	57.2	-90.10	-6,160.6	961.4	924.0	807.2	116.83	7.909	
18,800.0	12,070.6	18,482.4	12,071.7	60.6	58.0	-90.10	-6,260.6	962.1	924.0	805.5	118.52	7.796	
18,900.0	12,070.5	18,582.4	12,071.6	61.5	58.9	-90.10	-6,360.6	962.9	924.0	803.8	120.21	7.687	
19,000.0	12,070.4	18,682.4	12,071.5	62.3	59.7	-90.10	-6,460.6	963.6	924.0	802.1	121.90	7.580	
19,100.0	12,070.3	18,782.4	12,071.4	63.2	60.5	-90.10	-6,560.6	964.3	924.0	800.4	123.60	7.476	
19,200.0	12,070.2	18,882.4	12,071.3	64.0	61.4	-90.10	-6,660.6	965.0	924.0	798.7	125.29	7.375	
19,300.0	12,070.1	18,982.4	12,071.2	64.9	62.2	-90.10	-6,760.6	965.8	924.0	797.0	126.98	7.277	
19,400.0	12,070.0	19,082.4	12,071.1	65.7	63.0	-90.10	-6,860.6	966.5	924.0	795.3	128.68	7.181	
19,500.0	12,069.9	19,182.4	12,071.0	66.6	63.9	-90.10	-6,960.6	967.2	924.0	793.6	130.37	7.088	
19,600.0	12,069.8	19,282.4	12,070.9	67.4	64.7	-90.10	-7,060.6	967.9	924.0	791.9	132.07	6.996	
19,700.0	12,069.7	19,382.4	12,070.7	68.3	65.6	-90.10	-7,160.6	968.7	924.0	790.2	133.76	6.908	
19,800.0	12,069.6	19,482.4	12,070.6	69.1	66.4	-90.10	-7,260.6	969.4	924.0	788.5	135.46	6.821	
19,900.0	12,069.5	19,582.4	12,070.5	70.0	67.3	-90.10	-7,360.6	970.1	924.0	786.8	137.16	6.737	
20,000.0	12,069.4	19,682.4	12,070.4	70.8	68.1	-90.10	-7,460.6	970.8	924.0	785.1	138.86	6.654	
20,100.0	12,069.3	19,782.4	12,070.3	71.7	69.0	-90.10	-7,560.6	971.6	924.0	783.4	140.56	6.574	
20,200.0	12,069.2	19,882.4	12,070.2	72.5	69.8	-90.10	-7,660.6	972.3	924.0	781.7	142.26	6.495	
20,300.0	12,069.1	19,982.4	12,070.1	73.4	70.6	-90.10	-7,760.6	973.0	924.0	780.0	143.96	6.419	
20,400.0	12,069.0	20,082.4	12,070.0	74.3	71.5	-90.10	-7,860.6	973.7	924.0	778.3	145.66	6.344	
20,500.0	12,068.9	20,182.4	12,069.9	75.1	72.3	-90.10	-7,960.6	974.5	924.0	776.6	147.36	6.270	
20,600.0	12,068.8	20,282.4	12,069.8	76.0	73.2	-90.10	-8,060.6	975.2	924.0	774.9	149.06	6.199	
20,700.0	12,068.7	20,382.4	12,069.7	76.8	74.0	-90.10	-8,160.5	975.9	924.0	773.2	150.76	6.129	
20,800.0	12,068.6	20,482.4	12,069.6	77.7	74.9	-90.10	-8,260.5	976.6	924.0	771.5	152.47	6.060	
20,900.0	12,068.5	20,582.4	12,069.5	78.5	75.7	-90.10	-8,360.5	977.4	924.0	769.8	154.17	5.993	
21,000.0	12,068.4	20,682.4	12,069.4	79.4	76.6	-90.10	-8,460.5	978.1	924.0	768.1	155.87	5.928	
21,100.0	12,068.3	20,782.4	12,069.3	80.2	77.4	-90.10	-8,560.5	978.8	924.0	766.4	157.58	5.864	
21,200.0	12,068.2	20,882.4	12,069.2	81.1	78.3	-90.10	-8,660.5	979.5	924.0	764.7	159.28	5.801	
21,300.0	12,068.1	20,982.4	12,069.1	81.9	79.1	-90.10	-8,760.5	980.3	924.0	763.0	160.99	5.739	
21,400.0	12,068.0	21,082.4	12,069.0	82.8	80.0	-90.09	-8,860.5	981.0	924.0	761.3	162.69	5.679	
21,500.0	12,067.9	21,182.4	12,068.9	83.7	80.8	-90.09	-8,960.5	981.7	924.0	759.6	164.40	5.620	
21,600.0	12,067.8	21,282.4	12,068.8	84.5	81.7	-90.09	-9,060.5	982.4	924.0	757.9	166.11	5.563	
21,700.0	12,067.7	21,382.4	12,068.7	85.4	82.5	-90.09	-9,160.5	983.2	924.0	756.2	167.81	5.506	
21,800.0	12,067.6	21,482.4	12,068.6	86.2	83.4	-90.09	-9,260.5	983.9	924.0	754.5	169.52	5.450	
21,900.0	12,067.5	21,582.4	12,068.5	87.1	84.2	-90.09	-9,360.5	984.6	924.0	752.7	171.23	5.396	
22,000.0	12,067.4	21,682.4	12,068.4	87.9	85.1	-90.09	-9,460.5	985.3	924.0	751.0	172.94	5.343	
22,100.0	12,067.3	21,782.4	12,068.3	88.8	85.9	-90.09	-9,560.5	986.1	924.0	749.3	174.64	5.291	
22,200.0	12,067.2	21,882.4	12,068.2	89.6	86.8	-90.09	-9,660.5	986.8	924.0	747.6	176.35	5.239	
22,300.0	12,067.1	21,982.4	12,068.1	90.5	87.6	-90.09	-9,760.5	987.5	924.0	745.9	178.06	5.189	
22,350.9	12,067.0	22,033.3	12,068.0	90.9	88.1	-90.09	-9,811.4	987.9	924.0	745.0	178.93	5.164	
22,357.7	12,067.0	22,034.6	12,068.0	91.0	88.1	-90.09	-9,812.7	987.9	924.0	745.0	179.02	5.161	

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

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COMPASS 5000.15 Build 91E

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design		WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FED #703H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	-90.57	-0.3	-30.0	30.0					
100.0	100.0	99.8	99.8	3.0	3.0	-90.57	-0.3	-30.0	30.0	24.0	6.00	4.998		
200.0	200.0	199.8	199.8	3.0	3.0	-90.57	-0.3	-30.0	30.0	24.0	6.04	4.966		
300.0	300.0	299.8	299.8	3.0	3.1	-90.57	-0.3	-30.0	30.0	23.9	6.12	4.900		
400.0	400.0	399.8	399.8	3.0	3.2	-90.57	-0.3	-30.0	30.0	23.8	6.24	4.806		
500.0	500.0	499.8	499.8	3.1	3.4	-90.57	-0.3	-30.0	30.0	23.6	6.40	4.688		
600.0	600.0	599.8	599.8	3.1	3.6	-90.57	-0.3	-30.0	30.0	23.4	6.59	4.554		
700.0	700.0	699.8	699.8	3.1	3.8	-90.57	-0.3	-30.0	30.0	23.2	6.80	4.410		
800.0	800.0	799.8	799.8	3.2	4.0	-90.57	-0.3	-30.0	30.0	23.0	7.04	4.261		
900.0	900.0	899.8	899.8	3.2	4.2	-90.57	-0.3	-30.0	30.0	22.7	7.30	4.110		
1,000.0	1,000.0	999.8	999.8	3.2	4.5	-90.57	-0.3	-30.0	30.0	22.4	7.57	3.961		
1,100.0	1,100.0	1,099.8	1,099.8	3.3	4.8	-90.57	-0.3	-30.0	30.0	22.1	7.86	3.816		
1,200.0	1,200.0	1,199.8	1,199.8	3.4	5.1	-90.57	-0.3	-30.0	30.0	21.8	8.16	3.675		
1,300.0	1,300.0	1,299.8	1,299.8	3.4	5.4	-90.57	-0.3	-30.0	30.0	21.5	8.48	3.540		
1,400.0	1,400.0	1,399.8	1,399.8	3.5	5.7	-90.57	-0.3	-30.0	30.0	21.2	8.80	3.411		
1,500.0	1,500.0	1,499.8	1,499.8	3.5	6.0	-90.57	-0.3	-30.0	30.0	20.9	9.12	3.288		
1,600.0	1,600.0	1,599.8	1,599.8	3.6	6.3	-90.57	-0.3	-30.0	30.0	20.5	9.46	3.172		
1,700.0	1,700.0	1,699.8	1,699.8	3.7	6.6	-90.57	-0.3	-30.0	30.0	20.2	9.80	3.061		
1,800.0	1,800.0	1,799.8	1,799.8	3.8	6.9	-90.57	-0.3	-30.0	30.0	19.9	10.15	2.957		
1,900.0	1,900.0	1,899.8	1,899.8	3.9	7.2	-90.57	-0.3	-30.0	30.0	19.5	10.50	2.858		
2,000.0	2,000.0	1,999.8	1,999.8	3.9	7.6	-90.57	-0.3	-30.0	30.0	19.1	10.85	2.764		
2,100.0	2,100.0	2,099.8	2,099.8	4.0	7.9	-90.57	-0.3	-30.0	30.0	18.8	11.21	2.675		
2,200.0	2,200.0	2,199.8	2,199.8	4.1	8.2	-90.57	-0.3	-30.0	30.0	18.4	11.58	2.591		
2,300.0	2,300.0	2,299.8	2,299.8	4.2	8.6	-90.57	-0.3	-30.0	30.0	18.1	11.94	2.512		
2,400.0	2,400.0	2,399.8	2,399.8	4.3	8.9	-90.57	-0.3	-30.0	30.0	17.7	12.31	2.437		
2,500.0	2,500.0	2,499.8	2,499.8	4.4	9.2	-90.57	-0.3	-30.0	30.0	17.3	12.68	2.365		
2,539.2	2,539.2	2,539.0	2,539.0	4.4	9.4	-90.00	-0.3	-30.0	30.0	17.2	12.83	2.338	CC	
2,600.0	2,600.0	2,599.8	2,599.8	4.5	9.6	-92.82	-0.3	-30.0	30.0	17.0	13.06	2.299	ES	
2,700.0	2,699.8	2,699.6	2,699.6	4.6	9.9	-102.58	-0.3	-30.0	30.7	17.2	13.50	2.276	SF	
2,750.0	2,749.7	2,749.5	2,749.5	4.6	10.1	-109.45	-0.3	-30.0	31.8	18.1	13.78	2.310		
2,800.0	2,799.5	2,799.3	2,799.3	4.7	10.3	-116.46	-0.3	-30.0	33.5	19.5	14.08	2.381		
2,900.0	2,899.1	2,898.9	2,898.9	4.8	10.6	-128.21	-0.3	-30.0	38.2	23.5	14.71	2.599		
3,000.0	2,998.7	2,998.5	2,998.5	4.9	10.9	-137.11	-0.3	-30.0	44.2	28.9	15.31	2.884		
3,100.0	3,098.4	3,098.2	3,098.2	5.0	11.3	-143.79	-0.3	-30.0	50.9	35.0	15.88	3.207		
3,200.0	3,198.0	3,197.8	3,197.8	5.1	11.6	-148.86	-0.3	-30.0	58.2	41.8	16.41	3.546		
3,300.0	3,297.6	3,297.4	3,297.4	5.2	12.0	-152.79	-0.3	-30.0	65.8	48.9	16.92	3.890		
3,400.0	3,397.2	3,397.0	3,397.0	5.3	12.3	-155.89	-0.3	-30.0	73.7	56.3	17.41	4.231		
3,500.0	3,496.8	3,496.6	3,496.6	5.4	12.7	-158.38	-0.3	-30.0	81.7	63.8	17.90	4.565		
3,600.0	3,596.4	3,596.2	3,596.2	5.5	13.0	-160.43	-0.3	-30.0	89.9	71.5	18.38	4.890		
3,700.0	3,696.1	3,695.9	3,695.9	5.6	13.4	-162.13	-0.3	-30.0	98.1	79.3	18.85	5.205		
3,800.0	3,795.7	3,795.5	3,795.5	5.7	13.7	-163.57	-0.3	-30.0	106.5	87.1	19.33	5.509		
3,900.0	3,895.3	3,895.1	3,895.1	5.8	14.1	-164.80	-0.3	-30.0	114.8	95.1	19.80	5.802		
4,000.0	3,994.9	3,994.7	3,994.7	5.9	14.4	-165.86	-0.3	-30.0	123.3	103.0	20.27	6.083		
4,100.0	4,094.5	4,094.3	4,094.3	6.0	14.8	-166.79	-0.3	-30.0	131.8	111.0	20.73	6.354		
4,200.0	4,194.2	4,194.0	4,194.0	6.2	15.1	-167.60	-0.3	-30.0	140.3	119.1	21.20	6.615		
4,300.0	4,293.8	4,293.6	4,293.6	6.3	15.5	-168.32	-0.3	-30.0	148.8	127.1	21.67	6.865		
4,400.0	4,393.4	4,393.2	4,393.2	6.4	15.8	-168.97	-0.3	-30.0	157.3	135.2	22.14	7.106		
4,500.0	4,493.0	4,492.8	4,492.8	6.5	16.2	-169.54	-0.3	-30.0	165.9	143.3	22.61	7.338		
4,600.0	4,592.6	4,592.4	4,592.4	6.6	16.5	-170.06	-0.3	-30.0	174.5	151.4	23.08	7.560		
4,700.0	4,692.3	4,692.1	4,692.1	6.7	16.9	-170.53	-0.3	-30.0	183.1	159.5	23.55	7.774		
4,800.0	4,791.9	4,791.7	4,791.7	6.8	17.2	-170.96	-0.3	-30.0	191.7	167.6	24.02	7.981		

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FED #703H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,900.0	4,891.5	4,891.3	4,891.3	7.0	17.6	-171.35	-0.3	-30.0	200.3	175.8	24.49	8.179		
5,000.0	4,991.1	4,990.9	4,990.9	7.1	17.9	-171.71	-0.3	-30.0	208.9	183.9	24.96	8.371		
5,100.0	5,090.7	5,090.5	5,090.5	7.2	18.3	-172.04	-0.3	-30.0	217.5	192.1	25.43	8.555		
5,200.0	5,190.4	5,190.2	5,190.2	7.3	18.6	-172.35	-0.3	-30.0	226.2	200.3	25.90	8.733		
5,300.0	5,290.0	5,289.8	5,289.8	7.4	19.0	-172.63	-0.3	-30.0	234.8	208.4	26.37	8.904		
5,400.0	5,389.6	5,389.4	5,389.4	7.5	19.3	-172.89	-0.3	-30.0	243.5	216.6	26.84	9.070		
5,500.0	5,489.2	5,489.0	5,489.0	7.7	19.7	-173.14	-0.3	-30.0	252.1	224.8	27.31	9.230		
5,600.0	5,588.8	5,591.7	5,591.7	7.8	20.0	-173.07	0.4	-31.3	260.2	232.4	27.79	9.365		
5,700.0	5,688.5	5,694.9	5,694.7	7.9	20.4	-172.28	2.8	-35.9	267.1	238.8	28.25	9.454		
5,800.0	5,788.1	5,796.9	5,796.4	8.0	20.8	-170.83	6.7	-43.5	272.8	244.1	28.70	9.504		
5,900.0	5,887.7	5,896.5	5,895.5	8.1	21.1	-169.30	11.0	-51.8	278.4	249.2	29.15	9.550		
6,000.0	5,987.3	5,996.1	5,994.7	8.3	21.4	-167.83	15.3	-60.1	284.1	254.6	29.59	9.602		
6,100.0	6,086.9	6,095.6	6,093.8	8.4	21.8	-166.41	19.7	-68.4	290.1	260.1	30.03	9.660		
6,200.0	6,186.6	6,195.2	6,192.9	8.5	22.1	-165.05	24.0	-76.7	296.2	265.8	30.47	9.721		
6,300.0	6,286.2	6,294.8	6,292.1	8.6	22.5	-163.75	28.3	-85.0	302.5	271.6	30.91	9.787		
6,400.0	6,385.8	6,394.4	6,391.2	8.7	22.8	-162.51	32.6	-93.3	308.9	277.6	31.35	9.856		
6,500.0	6,485.4	6,493.9	6,490.3	8.9	23.2	-161.31	36.9	-101.6	315.5	283.7	31.78	9.927		
6,600.0	6,585.0	6,593.5	6,589.5	9.0	23.5	-160.16	41.2	-109.9	322.2	290.0	32.22	10.001		
6,700.0	6,684.7	6,693.1	6,688.6	9.1	23.9	-159.06	45.5	-118.2	329.1	296.4	32.65	10.077		
6,800.0	6,784.3	6,792.6	6,787.7	9.2	24.2	-158.01	49.8	-126.5	336.0	302.9	33.09	10.155		
6,900.0	6,883.9	6,892.2	6,886.8	9.3	24.6	-156.99	54.1	-134.8	343.1	309.5	33.52	10.234		
7,000.0	6,983.5	6,991.8	6,986.0	9.5	24.9	-156.02	58.5	-143.1	350.2	316.3	33.96	10.314		
7,100.0	7,083.1	7,091.3	7,085.1	9.6	25.3	-155.09	62.8	-151.4	357.5	323.1	34.39	10.395		
7,200.0	7,182.7	7,190.9	7,184.2	9.7	25.6	-154.19	67.1	-159.7	364.8	330.0	34.82	10.476		
7,300.0	7,282.4	7,290.5	7,283.4	9.8	26.0	-153.33	71.4	-168.0	372.3	337.0	35.26	10.558		
7,400.0	7,382.0	7,390.1	7,382.5	10.0	26.3	-152.51	75.7	-176.3	379.8	344.1	35.69	10.640		
7,500.0	7,481.6	7,489.6	7,481.6	10.1	26.7	-151.71	80.0	-184.6	387.4	351.2	36.13	10.722		
7,600.0	7,581.2	7,589.2	7,580.8	10.2	27.0	-150.95	84.3	-192.9	395.0	358.5	36.56	10.804		
7,700.0	7,680.8	7,688.8	7,679.9	10.3	27.4	-150.22	88.6	-201.2	402.8	365.8	37.00	10.886		
7,800.0	7,780.5	7,788.3	7,779.0	10.5	27.7	-149.51	92.9	-209.5	410.5	373.1	37.43	10.967		
7,900.0	7,880.1	7,887.9	7,878.1	10.6	28.1	-148.83	97.3	-217.8	418.4	380.5	37.87	11.048		
8,000.0	7,979.7	7,987.5	7,977.3	10.7	28.5	-148.17	101.6	-226.1	426.3	388.0	38.31	11.128		
8,100.0	8,079.3	8,087.0	8,076.4	10.8	28.8	-147.54	105.9	-234.4	434.3	395.5	38.75	11.207		
8,200.0	8,178.9	8,186.6	8,175.5	10.9	29.2	-146.93	110.2	-242.7	442.3	403.1	39.19	11.286		
8,300.0	8,278.6	8,286.2	8,274.7	11.1	29.5	-146.35	114.5	-251.0	450.3	410.7	39.63	11.364		
8,400.0	8,378.2	8,385.8	8,373.8	11.2	29.9	-145.78	118.8	-259.3	458.4	418.4	40.07	11.442		
8,500.0	8,477.8	8,485.3	8,472.9	11.3	30.2	-145.23	123.1	-267.6	466.6	426.1	40.51	11.518		
8,600.0	8,577.4	8,584.9	8,572.1	11.4	30.6	-144.71	127.4	-275.9	474.8	433.8	40.95	11.594		
8,700.0	8,677.0	8,684.5	8,671.2	11.6	30.9	-144.20	131.7	-284.1	483.0	441.6	41.39	11.669		
8,800.0	8,776.7	8,784.0	8,770.3	11.7	31.3	-143.70	136.1	-292.4	491.3	449.4	41.84	11.742		
8,900.0	8,876.3	8,883.6	8,869.5	11.8	31.6	-143.23	140.4	-300.7	499.6	457.3	42.28	11.815		
9,000.0	8,975.9	8,983.2	8,968.6	11.9	32.0	-142.77	144.7	-309.0	507.9	465.2	42.73	11.887		
9,100.0	9,075.5	9,082.7	9,067.7	12.1	32.4	-142.32	149.0	-317.3	516.3	473.1	43.17	11.958		
9,200.0	9,175.1	9,182.3	9,166.8	12.2	32.7	-141.89	153.3	-325.6	524.7	481.0	43.62	12.028		
9,300.0	9,274.8	9,281.9	9,266.0	12.3	33.1	-141.47	157.6	-333.9	533.1	489.0	44.07	12.097		
9,400.0	9,374.4	9,381.5	9,365.1	12.5	33.4	-141.06	161.9	-342.2	541.5	497.0	44.52	12.164		
9,500.0	9,474.0	9,481.0	9,464.2	12.6	33.8	-140.67	166.2	-350.5	550.0	505.0	44.97	12.231		
9,600.0	9,573.6	9,580.6	9,563.4	12.7	34.1	-140.29	170.5	-358.8	558.5	513.1	45.42	12.297		
9,642.4	9,615.8	9,622.8	9,605.4	12.8	34.3	-140.13	172.4	-362.3	562.1	516.5	45.61	12.325		
9,700.0	9,673.3	9,680.2	9,662.5	12.8	34.5	-139.93	174.9	-367.1	566.8	520.9	45.87	12.358		
9,800.0	9,773.0	9,779.8	9,761.7	13.0	34.8	-139.50	179.2	-375.4	573.9	527.6	46.31	12.394		

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FED #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,900.0	9,872.9	9,879.5	9,860.9	13.1	35.2	-138.96	183.5	-383.7	579.8	533.0	46.73	12.406	
10,000.0	9,972.8	9,979.1	9,960.1	13.2	35.6	-138.30	187.8	-392.0	584.4	537.2	47.14	12.396	
10,100.0	10,072.8	10,078.7	10,059.3	13.3	35.9	-137.54	192.1	-400.3	587.8	540.2	47.54	12.363	
10,142.4	10,115.2	10,120.9	10,101.3	13.4	36.1	-138.27	193.9	-403.8	588.9	541.2	47.71	12.343	
10,200.0	10,172.8	10,178.3	10,158.4	13.5	36.3	-137.76	196.4	-408.6	590.2	542.3	47.94	12.313	
10,300.0	10,272.8	10,277.9	10,257.5	13.6	36.6	-136.89	200.7	-416.9	592.7	544.4	48.33	12.264	
10,400.0	10,372.8	10,377.4	10,356.7	13.7	37.0	-136.02	205.0	-425.2	595.3	546.6	48.72	12.220	
10,500.0	10,472.8	10,477.0	10,455.8	13.8	37.3	-135.16	209.4	-433.5	598.1	549.0	49.10	12.180	
10,600.0	10,572.8	10,576.5	10,554.9	14.0	37.7	-134.31	213.7	-441.8	601.0	551.5	49.49	12.143	
10,700.0	10,672.8	10,676.1	10,654.0	14.1	38.1	-133.47	218.0	-450.1	604.0	554.1	49.87	12.110	
10,800.0	10,772.8	10,775.6	10,753.1	14.2	38.4	-132.64	222.3	-458.4	607.1	556.9	50.26	12.080	
10,900.0	10,872.8	10,875.2	10,852.2	14.4	38.8	-131.81	226.6	-466.7	610.4	559.8	50.64	12.054	
11,000.0	10,972.8	10,974.8	10,951.4	14.5	39.1	-130.99	230.9	-475.0	613.8	562.8	51.02	12.030	
11,100.0	11,072.8	11,074.3	11,050.5	14.6	39.5	-130.19	235.2	-483.3	617.3	565.9	51.40	12.010	
11,200.0	11,172.8	11,173.9	11,149.6	14.7	39.9	-129.39	239.5	-491.6	621.0	569.2	51.78	11.993	
11,300.0	11,272.8	11,273.4	11,248.7	14.9	40.2	-128.60	243.8	-499.9	624.7	572.6	52.16	11.978	
11,400.0	11,372.8	11,373.0	11,347.8	15.0	40.6	-127.82	248.1	-508.2	628.6	576.1	52.53	11.966	
11,500.0	11,472.8	11,472.6	11,447.0	15.1	40.9	-127.05	252.5	-516.5	632.6	579.7	52.91	11.956	
11,600.0	11,572.8	11,572.1	11,546.1	15.2	41.3	-126.29	256.8	-524.8	636.7	583.5	53.18	11.972	
11,626.7	11,599.5	11,598.7	11,572.5	15.2	41.4	-126.09	257.9	-527.0	637.8	584.6	53.26	11.975	
11,650.0	11,622.8	11,621.9	11,595.6	15.2	41.5	54.48	258.9	-528.9	638.5	585.2	53.33	11.972	
11,675.0	11,647.7	11,635.9	11,609.6	15.2	41.5	54.64	259.5	-530.1	638.6	585.3	53.37	11.966	
11,700.0	11,672.5	11,650.0	11,623.6	15.2	41.6	54.87	259.6	-531.5	638.6	585.2	53.41	11.957	
11,725.0	11,697.1	11,658.5	11,632.1	15.2	41.6	55.06	259.6	-532.4	638.3	584.8	53.43	11.945	
11,750.0	11,721.5	11,675.0	11,648.4	15.2	41.7	55.46	259.0	-534.4	637.8	584.3	53.47	11.929	
11,775.0	11,745.4	11,675.0	11,648.4	15.2	41.7	55.53	259.0	-534.4	637.1	583.7	53.49	11.912	
11,800.0	11,769.0	11,692.1	11,665.3	15.2	41.7	56.06	258.0	-536.7	636.2	582.7	53.52	11.888	
11,825.0	11,792.2	11,700.0	11,673.1	15.3	41.7	56.39	257.3	-537.9	635.2	581.7	53.54	11.863	
11,850.0	11,814.8	11,714.1	11,687.0	15.3	41.8	56.95	255.8	-540.1	634.0	580.4	53.57	11.835	
11,875.0	11,836.8	11,725.0	11,697.6	15.3	41.8	57.46	254.3	-541.9	632.7	579.1	53.60	11.804	
11,900.0	11,858.1	11,735.9	11,708.2	15.3	41.9	58.02	252.7	-543.8	631.3	577.7	53.63	11.772	
11,925.0	11,878.8	11,750.0	11,721.9	15.3	41.9	58.74	250.2	-546.4	629.8	576.2	53.65	11.739	
11,950.0	11,898.7	11,757.3	11,728.8	15.3	41.9	59.22	248.8	-547.9	628.2	574.5	53.69	11.702	
11,975.0	11,917.7	11,767.8	11,738.9	15.4	42.0	59.87	246.6	-550.0	626.6	572.9	53.72	11.665	
12,000.0	11,935.9	11,775.0	11,745.8	15.4	42.0	60.39	245.0	-551.5	625.0	571.2	53.76	11.626	
12,025.0	11,953.2	11,788.6	11,758.6	15.4	42.0	61.25	241.7	-554.5	623.3	569.5	53.79	11.589	
12,050.0	11,969.5	11,800.0	11,769.3	15.4	42.1	62.04	238.6	-557.1	621.7	567.9	53.82	11.551	
12,075.0	11,984.8	11,808.9	11,777.5	15.5	42.1	62.70	236.1	-559.2	620.2	566.3	53.87	11.513	
12,100.0	11,999.0	11,818.8	11,786.6	15.5	42.1	63.44	233.1	-561.7	618.7	564.8	53.91	11.476	
12,125.0	12,012.2	11,825.0	11,792.3	15.5	42.2	63.96	231.1	-563.2	617.4	563.4	53.97	11.439	
12,150.0	12,024.2	11,838.2	11,804.3	15.5	42.2	64.93	226.7	-566.6	616.2	562.2	54.02	11.407	
12,175.0	12,035.0	11,850.0	11,814.8	15.5	42.2	65.81	222.5	-569.8	615.2	561.1	54.07	11.378	
12,200.0	12,044.6	11,857.1	11,821.1	15.6	42.2	66.38	219.9	-571.7	614.4	560.3	54.14	11.348	
12,225.0	12,053.1	11,866.2	11,829.1	15.6	42.3	67.09	216.3	-574.3	613.8	559.6	54.21	11.323	
12,250.0	12,060.3	11,875.0	11,836.8	15.6	42.3	67.76	212.8	-576.8	613.6	559.3	54.29	11.302	
12,265.0	12,064.0	11,880.4	11,841.5	15.6	42.3	68.16	210.6	-578.4	613.5	559.2	54.33	11.292	
12,275.0	12,066.2	11,883.9	11,844.4	15.6	42.3	68.41	209.1	-579.5	613.6	559.2	54.37	11.286	
12,300.0	12,070.8	11,892.4	11,851.7	15.6	42.4	69.02	205.5	-582.0	613.9	559.5	54.45	11.275	
12,325.0	12,074.2	11,900.0	11,858.1	15.6	42.4	69.54	202.1	-584.3	614.6	560.1	54.54	11.269	
12,350.0	12,076.2	11,908.7	11,865.3	15.6	42.4	70.11	198.1	-587.1	615.7	561.1	54.63	11.271	
12,377.2	12,077.0	11,917.1	11,872.3	15.6	42.4	70.60	194.1	-589.7	617.3	562.6	54.73	11.280	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design		WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FED #703H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis						Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
12,400.0	12,076.9	11,925.0	11,878.7	15.6	42.4	71.24	190.3	-592.3	619.3	564.5	54.81	11.298		
12,500.0	12,076.8	11,959.6	11,905.9	15.7	42.5	73.98	172.5	-603.9	635.8	580.5	55.27	11.502		
12,600.0	12,076.7	12,003.6	11,938.3	15.7	42.6	77.23	147.1	-619.7	663.8	608.1	55.78	11.902		
12,700.0	12,076.6	12,058.7	11,974.7	15.7	42.8	80.84	111.7	-640.9	700.8	644.5	56.26	12.456		
12,800.0	12,076.5	12,127.7	12,013.2	15.8	42.9	84.52	62.1	-669.2	743.8	687.1	56.71	13.115		
12,900.0	12,076.4	12,212.1	12,048.6	15.8	43.1	87.71	-5.1	-705.9	789.7	732.6	57.15	13.819		
13,000.0	12,076.3	12,311.0	12,072.3	15.8	43.2	89.68	-90.2	-750.0	836.0	778.4	57.61	14.512		
13,100.0	12,076.2	12,463.8	12,076.9	15.9	43.4	90.04	-228.1	-815.3	880.1	822.0	58.11	15.146		
13,200.0	12,076.1	12,717.9	12,076.6	15.9	43.7	90.03	-469.9	-892.0	911.1	852.4	58.70	15.522		
13,300.0	12,076.0	12,994.2	12,076.3	16.0	44.0	90.03	-743.8	-925.6	924.1	864.7	59.42	15.552		
13,400.0	12,075.9	13,124.7	12,076.2	16.7	44.2	90.03	-874.2	-925.4	924.3	864.1	60.22	15.351		
13,500.0	12,075.8	13,224.7	12,076.1	17.4	44.4	90.03	-974.2	-924.7	924.3	863.3	61.05	15.140		
13,600.0	12,075.7	13,324.7	12,076.0	18.1	44.5	90.03	-1,074.2	-924.0	924.3	862.4	61.92	14.927		
13,700.0	12,075.6	13,424.7	12,075.9	18.8	44.7	90.03	-1,174.2	-923.2	924.3	861.5	62.82	14.714		
13,800.0	12,075.5	13,524.7	12,075.8	19.5	44.9	90.03	-1,274.2	-922.5	924.3	860.6	63.75	14.500		
13,900.0	12,075.4	13,624.7	12,075.7	20.3	45.1	90.03	-1,374.2	-921.8	924.3	859.6	64.70	14.287		
14,000.0	12,075.3	13,724.7	12,075.6	21.0	45.3	90.03	-1,474.2	-921.0	924.3	858.7	65.68	14.074		
14,100.0	12,075.2	13,824.7	12,075.5	21.8	45.5	90.03	-1,574.2	-920.3	924.3	857.7	66.68	13.863		
14,200.0	12,075.1	13,924.7	12,075.4	22.5	45.8	90.03	-1,674.2	-919.6	924.3	856.6	67.70	13.653		
14,300.0	12,075.0	14,024.7	12,075.3	23.3	46.1	90.03	-1,774.2	-918.8	924.3	855.6	68.74	13.446		
14,400.0	12,074.9	14,124.7	12,075.2	24.1	46.3	90.03	-1,874.2	-918.1	924.3	854.5	69.81	13.241		
14,500.0	12,074.8	14,224.7	12,075.1	24.9	46.6	90.03	-1,974.2	-917.4	924.3	853.4	70.89	13.038		
14,600.0	12,074.7	14,324.7	12,075.0	25.7	46.9	90.03	-2,074.2	-916.7	924.3	852.3	72.00	12.838		
14,700.0	12,074.6	14,424.7	12,074.9	26.4	47.3	90.03	-2,174.2	-915.9	924.3	851.2	73.12	12.641		
14,800.0	12,074.5	14,524.7	12,074.8	27.2	47.6	90.03	-2,274.2	-915.2	924.3	850.0	74.26	12.447		
14,900.0	12,074.4	14,624.7	12,074.7	28.0	47.9	90.03	-2,374.2	-914.5	924.3	848.9	75.42	12.256		
15,000.0	12,074.3	14,724.7	12,074.6	28.9	48.3	90.03	-2,474.1	-913.7	924.3	847.7	76.59	12.068		
15,100.0	12,074.2	14,824.7	12,074.5	29.7	48.7	90.03	-2,574.1	-913.0	924.3	846.5	77.78	11.883		
15,200.0	12,074.1	14,924.7	12,074.4	30.5	49.1	90.03	-2,674.1	-912.3	924.3	845.3	78.99	11.702		
15,300.0	12,074.0	15,024.7	12,074.3	31.3	49.4	90.03	-2,774.1	-911.6	924.3	844.1	80.21	11.524		
15,400.0	12,073.9	15,124.7	12,074.2	32.1	49.9	90.03	-2,874.1	-910.8	924.3	842.8	81.44	11.349		
15,500.0	12,073.8	15,224.7	12,074.1	32.9	50.3	90.03	-2,974.1	-910.1	924.3	841.6	82.69	11.178		
15,600.0	12,073.7	15,324.7	12,074.0	33.7	50.7	90.03	-3,074.1	-909.4	924.3	840.3	83.95	11.010		
15,700.0	12,073.6	15,424.7	12,073.8	34.6	51.2	90.02	-3,174.1	-908.6	924.3	839.1	85.22	10.846		
15,800.0	12,073.5	15,524.7	12,073.7	35.4	51.6	90.02	-3,274.1	-907.9	924.3	837.8	86.51	10.684		
15,900.0	12,073.4	15,624.7	12,073.6	36.2	52.1	90.02	-3,374.1	-907.2	924.3	836.5	87.81	10.526		
16,000.0	12,073.3	15,724.7	12,073.5	37.0	52.5	90.02	-3,474.1	-906.4	924.3	835.2	89.12	10.372		
16,100.0	12,073.2	15,824.7	12,073.4	37.9	53.0	90.02	-3,574.1	-905.7	924.3	833.8	90.44	10.220		
16,200.0	12,073.1	15,924.7	12,073.3	38.7	53.5	90.02	-3,674.1	-905.0	924.3	832.5	91.77	10.072		
16,300.0	12,073.0	16,024.7	12,073.2	39.5	54.0	90.02	-3,774.1	-904.3	924.3	831.1	93.11	9.926		
16,400.0	12,072.9	16,124.7	12,073.1	40.4	54.5	90.02	-3,874.1	-903.5	924.3	829.8	94.46	9.784		
16,500.0	12,072.8	16,224.7	12,073.0	41.2	55.1	90.02	-3,974.1	-902.8	924.3	828.4	95.83	9.645		
16,600.0	12,072.7	16,324.7	12,072.9	42.0	55.6	90.02	-4,074.1	-902.1	924.2	827.1	97.20	9.509		
16,700.0	12,072.6	16,424.7	12,072.8	42.9	56.1	90.02	-4,174.1	-901.3	924.2	825.7	98.58	9.376		
16,800.0	12,072.5	16,524.7	12,072.7	43.7	56.7	90.02	-4,274.1	-900.6	924.2	824.3	99.97	9.245		
16,900.0	12,072.4	16,624.7	12,072.6	44.6	57.2	90.02	-4,374.1	-899.9	924.2	822.9	101.37	9.118		
17,000.0	12,072.3	16,724.7	12,072.5	45.4	57.8	90.02	-4,474.1	-899.1	924.2	821.5	102.77	8.993		
17,100.0	12,072.2	16,824.7	12,072.4	46.2	58.4	90.02	-4,574.1	-898.4	924.2	820.0	104.19	8.871		
17,200.0	12,072.1	16,924.7	12,072.3	47.1	58.9	90.02	-4,674.1	-897.7	924.2	818.6	105.61	8.751		
17,300.0	12,072.0	17,024.7	12,072.2	47.9	59.5	90.02	-4,774.1	-897.0	924.2	817.2	107.04	8.634		
17,400.0	12,071.9	17,124.7	12,072.1	48.8	60.1	90.02	-4,874.1	-896.2	924.2	815.7	108.48	8.520		

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FED #703H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)						
17,500.0	12,071.8	17,224.7	12,072.0	49.6	60.7	90.02	-4,974.1	-895.5	924.2	814.3	109.92	8.408		
17,600.0	12,071.7	17,324.7	12,071.9	50.5	61.3	90.02	-5,074.1	-894.8	924.2	812.8	111.38	8.298		
17,700.0	12,071.7	17,424.7	12,071.8	51.3	61.9	90.02	-5,174.1	-894.0	924.2	811.4	112.83	8.191		
17,800.0	12,071.6	17,524.7	12,071.7	52.1	62.5	90.02	-5,274.1	-893.3	924.2	809.9	114.30	8.086		
17,900.0	12,071.5	17,624.7	12,071.6	53.0	63.2	90.02	-5,374.1	-892.6	924.2	808.4	115.77	7.983		
18,000.0	12,071.4	17,724.7	12,071.5	53.8	63.8	90.02	-5,474.1	-891.8	924.2	807.0	117.25	7.882		
18,100.0	12,071.3	17,824.7	12,071.4	54.7	64.4	90.02	-5,574.1	-891.1	924.2	805.5	118.73	7.784		
18,200.0	12,071.2	17,924.7	12,071.3	55.5	65.1	90.02	-5,674.1	-890.4	924.2	804.0	120.22	7.688		
18,300.0	12,071.1	18,024.7	12,071.2	56.4	65.7	90.02	-5,774.1	-889.7	924.2	802.5	121.71	7.593		
18,400.0	12,071.0	18,124.7	12,071.1	57.2	66.3	90.02	-5,874.1	-888.9	924.2	801.0	123.21	7.501		
18,500.0	12,070.9	18,224.7	12,071.0	58.1	67.0	90.02	-5,974.1	-888.2	924.2	799.5	124.72	7.410		
18,600.0	12,070.8	18,324.7	12,070.9	58.9	67.7	90.02	-6,074.1	-887.5	924.2	798.0	126.23	7.321		
18,700.0	12,070.7	18,424.7	12,070.8	59.8	68.3	90.02	-6,174.0	-886.7	924.2	796.4	127.74	7.235		
18,800.0	12,070.6	18,524.7	12,070.7	60.6	69.0	90.02	-6,274.0	-886.0	924.2	794.9	129.26	7.150		
18,900.0	12,070.5	18,624.7	12,070.6	61.5	69.6	90.02	-6,374.0	-885.3	924.2	793.4	130.79	7.066		
19,000.0	12,070.4	18,724.7	12,070.5	62.3	70.3	90.02	-6,474.0	-884.5	924.2	791.9	132.32	6.985		
19,100.0	12,070.3	18,824.7	12,070.4	63.2	71.0	90.02	-6,574.0	-883.8	924.2	790.3	133.85	6.905		
19,200.0	12,070.2	18,924.7	12,070.3	64.0	71.7	90.02	-6,674.0	-883.1	924.2	788.8	135.39	6.826		
19,300.0	12,070.1	19,024.7	12,070.1	64.9	72.4	90.02	-6,774.0	-882.4	924.2	787.2	136.93	6.749		
19,400.0	12,070.0	19,124.7	12,070.0	65.7	73.1	90.02	-6,874.0	-881.6	924.2	785.7	138.47	6.674		
19,500.0	12,069.9	19,224.7	12,069.9	66.6	73.8	90.02	-6,974.0	-880.9	924.2	784.1	140.02	6.600		
19,600.0	12,069.8	19,324.7	12,069.8	67.4	74.5	90.02	-7,074.0	-880.2	924.2	782.6	141.57	6.528		
19,700.0	12,069.7	19,424.7	12,069.7	68.3	75.2	90.02	-7,174.0	-879.4	924.1	781.0	143.13	6.457		
19,800.0	12,069.6	19,524.7	12,069.6	69.1	75.9	90.02	-7,274.0	-878.7	924.1	779.5	144.69	6.387		
19,900.0	12,069.5	19,624.7	12,069.5	70.0	76.6	90.02	-7,374.0	-878.0	924.1	777.9	146.25	6.319		
20,000.0	12,069.4	19,724.7	12,069.4	70.8	77.3	90.02	-7,474.0	-877.2	924.1	776.3	147.82	6.252		
20,100.0	12,069.3	19,824.7	12,069.3	71.7	78.0	90.02	-7,574.0	-876.5	924.1	774.7	149.39	6.186		
20,200.0	12,069.2	19,924.7	12,069.2	72.5	78.7	90.02	-7,674.0	-875.8	924.1	773.2	150.96	6.122		
20,300.0	12,069.1	20,024.7	12,069.1	73.4	79.4	90.02	-7,774.0	-875.1	924.1	771.6	152.54	6.058		
20,400.0	12,069.0	20,124.7	12,069.0	74.3	80.1	90.02	-7,874.0	-874.3	924.1	770.0	154.12	5.996		
20,500.0	12,068.9	20,224.7	12,068.9	75.1	80.9	90.02	-7,974.0	-873.6	924.1	768.4	155.70	5.935		
20,600.0	12,068.8	20,324.7	12,068.8	76.0	81.6	90.02	-8,074.0	-872.9	924.1	766.8	157.28	5.876		
20,700.0	12,068.7	20,424.7	12,068.7	76.8	82.3	90.02	-8,174.0	-872.1	924.1	765.2	158.87	5.817		
20,800.0	12,068.6	20,524.7	12,068.6	77.7	83.1	90.02	-8,274.0	-871.4	924.1	763.7	160.46	5.759		
20,900.0	12,068.5	20,624.7	12,068.5	78.5	83.8	90.02	-8,374.0	-870.7	924.1	762.1	162.05	5.703		
21,000.0	12,068.4	20,724.7	12,068.4	79.4	84.5	90.02	-8,474.0	-869.9	924.1	760.5	163.65	5.647		
21,100.0	12,068.3	20,824.7	12,068.3	80.2	85.3	90.02	-8,574.0	-869.2	924.1	758.9	165.25	5.592		
21,200.0	12,068.2	20,924.7	12,068.2	81.1	86.0	90.01	-8,674.0	-868.5	924.1	757.3	166.85	5.539		
21,300.0	12,068.1	21,024.7	12,068.1	81.9	86.8	90.01	-8,774.0	-867.8	924.1	755.6	168.45	5.486		
21,400.0	12,068.0	21,124.7	12,068.0	82.8	87.5	90.01	-8,874.0	-867.0	924.1	754.0	170.05	5.434		
21,500.0	12,067.9	21,224.7	12,067.9	83.7	88.3	90.01	-8,974.0	-866.3	924.1	752.4	171.66	5.383		
21,600.0	12,067.8	21,324.7	12,067.8	84.5	89.0	90.01	-9,074.0	-865.6	924.1	750.8	173.27	5.333		
21,700.0	12,067.7	21,424.7	12,067.7	85.4	89.8	90.01	-9,174.0	-864.8	924.1	749.2	174.88	5.284		
21,800.0	12,067.6	21,524.7	12,067.6	86.2	90.5	90.01	-9,274.0	-864.1	924.1	747.6	176.49	5.236		
21,900.0	12,067.5	21,624.7	12,067.5	87.1	91.3	90.01	-9,374.0	-863.4	924.1	746.0	178.11	5.188		
22,000.0	12,067.4	21,724.7	12,067.4	87.9	92.0	90.01	-9,474.0	-862.7	924.1	744.4	179.72	5.142		
22,100.0	12,067.3	21,824.7	12,067.3	88.8	92.8	90.01	-9,574.0	-861.9	924.1	742.7	181.34	5.096		
22,200.0	12,067.2	21,924.7	12,067.2	89.6	93.6	90.01	-9,674.0	-861.2	924.1	741.1	182.96	5.051		
22,300.0	12,067.1	22,024.7	12,067.1	90.5	94.3	90.01	-9,774.0	-860.5	924.1	739.5	184.53	5.008		
22,357.7	12,067.0	22,082.4	12,067.0	91.0	94.6	90.01	-9,831.6	-860.0	924.1	738.7	185.35	4.986		

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

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COMPASS 5000.15 Build 91E

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #10H - OWB - ACTUAL												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8683-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	3.0	3.0	-56.52	467.8	-707.4	848.1				
100.0	100.0	99.2	99.2	3.0	3.0	-56.52	467.9	-707.4	848.2	842.2	6.00	141.350	
200.0	200.0	197.6	197.6	3.0	3.0	-56.51	468.2	-707.5	848.4	842.4	6.01	141.251	
300.0	300.0	298.5	298.5	3.0	3.0	-56.49	468.5	-707.6	848.6	842.6	6.02	140.997	
400.0	400.0	398.0	398.0	3.0	3.0	-56.48	468.8	-707.7	848.9	842.8	6.04	140.597	
500.0	500.0	497.6	497.6	3.1	3.1	-56.47	469.1	-707.9	849.2	843.1	6.07	139.992	
600.0	600.0	596.7	596.7	3.1	3.1	-56.46	469.4	-708.2	849.6	843.5	6.10	139.217	
700.0	700.0	699.3	699.3	3.1	3.1	-56.46	469.6	-708.4	849.9	843.8	6.15	138.256	
800.0	800.0	803.7	803.7	3.2	3.1	-56.48	469.2	-708.4	849.7	843.5	6.17	137.767	
900.0	900.0	903.1	903.1	3.2	3.1	-56.51	468.6	-708.3	849.3	843.2	6.19	137.173	
992.4	992.4	992.7	992.7	3.2	3.1	-56.55	468.1	-708.5	849.2	843.0	6.22	136.454	
1,000.0	1,000.0	1,000.0	1,000.0	3.2	3.1	-56.55	468.1	-708.6	849.2	843.0	6.23	136.390	
1,089.1	1,089.1	1,089.4	1,089.4	3.3	3.1	-56.59	467.6	-708.8	849.2	842.9	6.26	135.585	
1,100.0	1,100.0	1,100.0	1,100.0	3.3	3.1	-56.59	467.6	-708.9	849.2	842.9	6.27	135.483	
1,200.0	1,200.0	1,200.7	1,200.7	3.4	3.1	-56.63	467.1	-709.2	849.2	842.9	6.31	134.479	
1,252.3	1,252.3	1,252.6	1,252.6	3.4	3.2	-56.64	467.0	-709.2	849.2	842.8	6.34	133.951	
1,300.0	1,300.0	1,299.9	1,299.9	3.4	3.2	-56.65	466.8	-709.4	849.2	842.9	6.37	133.409	
1,400.0	1,400.0	1,398.5	1,398.5	3.5	3.2	-56.69	466.5	-709.8	849.4	843.0	6.42	132.227	
1,500.0	1,500.0	1,497.7	1,497.7	3.5	3.2	-56.71	466.4	-710.2	849.6	843.2	6.49	130.888	
1,600.0	1,600.0	1,596.3	1,596.3	3.6	3.3	-56.71	466.5	-710.6	850.1	843.5	6.57	129.369	
1,700.0	1,700.0	1,696.5	1,696.5	3.7	3.3	-56.69	467.1	-710.9	850.6	844.0	6.65	127.832	
1,800.0	1,800.0	1,794.6	1,794.6	3.8	3.3	-56.63	468.2	-710.9	851.2	844.5	6.74	126.352	
1,900.0	1,900.0	1,894.6	1,894.6	3.9	3.4	-56.54	469.7	-710.7	851.9	845.0	6.82	124.904	
2,000.0	2,000.0	1,996.2	1,996.1	3.9	3.4	-56.40	471.7	-710.0	852.4	845.5	6.90	123.474	
2,100.0	2,100.0	2,095.4	2,095.3	4.0	3.4	-56.23	474.2	-709.0	852.9	845.9	6.99	122.054	
2,200.0	2,200.0	2,203.1	2,203.0	4.1	3.5	-56.17	475.0	-708.6	853.1	846.0	7.07	120.651	
2,300.0	2,300.0	2,306.3	2,306.2	4.2	3.5	-56.18	474.6	-708.3	852.6	845.5	7.13	119.518	
2,400.0	2,400.0	2,409.7	2,409.6	4.3	3.5	-56.12	474.8	-707.1	851.8	844.6	7.20	118.237	
2,500.0	2,500.0	2,508.9	2,508.8	4.4	3.5	-56.03	475.3	-705.6	850.8	843.5	7.28	116.838	
2,600.0	2,600.0	2,610.5	2,610.3	4.5	3.5	-54.95	476.3	-703.6	848.7	841.3	7.37	115.231	
2,700.0	2,699.8	2,710.6	2,710.4	4.6	3.6	-55.13	477.8	-701.0	844.4	837.0	7.45	113.344	
2,750.0	2,749.7	2,760.9	2,760.7	4.6	3.6	-55.30	478.7	-699.7	841.5	834.0	7.49	112.317	
2,800.0	2,799.5	2,811.6	2,811.3	4.7	3.6	-55.44	479.6	-698.3	838.4	830.9	7.54	111.265	
2,900.0	2,899.1	2,908.2	2,907.9	4.8	3.7	-55.75	481.0	-696.0	832.3	824.6	7.62	109.228	
3,000.0	2,998.7	3,006.4	3,006.1	4.9	3.7	-56.19	481.1	-694.9	826.5	818.8	7.70	107.330	
3,100.0	3,098.4	3,104.7	3,104.4	5.0	3.7	-56.64	481.3	-693.9	820.9	813.1	7.79	105.446	
3,200.0	3,198.0	3,205.7	3,205.4	5.1	3.8	-57.10	481.6	-692.8	815.4	807.5	7.87	103.548	
3,300.0	3,297.6	3,304.4	3,304.0	5.2	3.9	-57.50	482.4	-691.3	809.8	801.9	7.97	101.636	
3,400.0	3,397.2	3,401.0	3,400.7	5.3	3.9	-57.84	484.2	-689.7	804.7	796.6	8.07	99.776	
3,500.0	3,496.8	3,497.4	3,497.0	5.4	4.0	-58.23	485.6	-688.6	799.8	791.7	8.16	97.986	
3,600.0	3,596.4	3,599.4	3,599.0	5.5	4.0	-58.78	485.5	-688.5	795.1	786.8	8.26	96.264	
3,700.0	3,696.1	3,705.2	3,704.9	5.6	4.1	-59.30	485.7	-687.6	790.0	781.6	8.36	94.464	
3,800.0	3,795.7	3,812.6	3,812.2	5.7	4.2	-59.74	486.5	-684.8	783.6	775.2	8.47	92.493	
3,900.0	3,895.3	3,898.3	3,897.9	5.8	4.2	-60.14	487.0	-683.5	778.2	769.7	8.57	90.804	
4,000.0	3,994.9	4,002.1	4,001.7	5.9	4.3	-60.61	488.0	-682.3	773.4	764.7	8.68	89.104	
4,100.0	4,094.5	4,104.1	4,103.6	6.0	4.4	-61.03	489.5	-680.6	768.3	759.5	8.79	87.393	
4,200.0	4,194.2	4,217.9	4,217.4	6.2	4.5	-61.49	490.8	-677.4	762.1	753.2	8.92	85.480	
4,300.0	4,293.8	4,315.8	4,315.2	6.3	4.5	-61.97	490.4	-674.0	754.8	745.7	9.03	83.559	
4,400.0	4,393.4	4,401.7	4,401.1	6.4	4.6	-62.61	488.2	-673.8	749.2	740.1	9.13	82.043	
4,500.0	4,493.0	4,501.8	4,501.2	6.5	4.6	-63.39	485.7	-673.9	744.2	735.0	9.24	80.557	
4,600.0	4,592.6	4,596.5	4,595.8	6.6	4.6	-64.11	483.6	-674.0	739.5	730.2	9.34	79.147	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #10H - OWB - ACTUAL													Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8683-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis			Distance								Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,700.0	4,692.3	4,695.5	4,694.9	6.7	4.6	-64.87	481.6	-674.5	735.4	726.0	9.45	77.836		
4,800.0	4,791.9	4,794.9	4,794.2	6.8	4.6	-65.64	479.7	-675.1	731.5	721.9	9.55	76.575		
4,900.0	4,891.5	4,894.7	4,894.0	7.0	4.7	-66.45	477.4	-675.8	727.7	718.0	9.66	75.358		
5,000.0	4,991.1	4,994.2	4,993.5	7.1	4.7	-67.28	474.9	-676.5	724.0	714.2	9.76	74.183		
5,100.0	5,090.7	5,093.0	5,092.2	7.2	4.7	-68.10	472.6	-677.1	720.4	710.5	9.86	73.039		
5,200.0	5,190.4	5,191.7	5,190.9	7.3	4.8	-68.93	470.3	-677.9	717.1	707.2	9.97	71.964		
5,300.0	5,290.0	5,290.8	5,289.9	7.4	4.8	-69.78	468.0	-678.7	714.0	704.0	10.07	70.925		
5,400.0	5,389.6	5,389.6	5,388.7	7.5	4.9	-70.62	465.8	-679.6	711.2	701.0	10.17	69.935		
5,500.0	5,489.2	5,490.0	5,489.1	7.7	4.9	-71.49	463.4	-680.5	708.5	698.2	10.27	68.965		
5,600.0	5,588.8	5,589.3	5,588.4	7.8	5.0	-72.35	461.1	-681.3	705.9	695.5	10.38	68.022		
5,700.0	5,688.5	5,688.3	5,687.3	7.9	5.0	-73.22	458.8	-682.1	703.4	692.9	10.48	67.111		
5,800.0	5,788.1	5,787.1	5,786.0	8.0	5.1	-74.09	456.6	-683.0	701.2	690.6	10.59	66.236		
5,900.0	5,887.7	5,885.8	5,884.8	8.1	5.1	-74.97	454.3	-683.9	699.2	688.5	10.69	65.403		
6,000.0	5,987.3	5,984.8	5,983.7	8.3	5.2	-75.84	452.1	-685.0	697.6	686.8	10.80	64.610		
6,100.0	6,086.9	6,083.1	6,082.0	8.4	5.2	-76.72	449.9	-686.1	696.1	685.2	10.90	63.848		
6,200.0	6,186.6	6,181.9	6,180.8	8.5	5.3	-77.60	447.9	-687.4	695.0	684.0	11.01	63.121		
6,300.0	6,286.2	6,280.4	6,279.2	8.6	5.4	-78.48	445.9	-688.8	694.2	683.1	11.12	62.429		
6,400.0	6,385.8	6,379.1	6,377.9	8.7	5.4	-79.36	443.9	-690.2	693.6	682.4	11.23	61.757		
6,500.0	6,485.4	6,477.8	6,476.6	8.9	5.5	-80.24	441.9	-691.7	693.3	681.9	11.35	61.104		
6,586.8	6,571.9	6,564.0	6,562.7	9.0	5.6	-81.00	440.3	-693.1	693.2	681.7	11.45	60.551		
6,600.0	6,585.0	6,576.7	6,575.4	9.0	5.6	-81.11	440.1	-693.3	693.2	681.7	11.46	60.470		
6,700.0	6,684.7	6,676.4	6,675.2	9.1	5.6	-82.00	438.1	-695.0	693.3	681.7	11.58	59.854		
6,800.0	6,784.3	6,782.4	6,781.1	9.2	5.7	-82.92	436.3	-696.4	693.3	681.6	11.71	59.208		
6,900.0	6,883.9	6,888.1	6,886.8	9.3	5.8	-83.63	436.7	-696.2	692.1	680.3	11.85	58.403		
7,000.0	6,983.5	6,987.3	6,986.0	9.5	5.8	-84.27	437.6	-695.8	690.9	678.9	11.99	57.626		
7,100.0	7,083.1	7,087.8	7,086.5	9.6	5.9	-84.92	438.5	-695.4	689.7	677.6	12.13	56.854		
7,200.0	7,182.7	7,186.4	7,185.0	9.7	5.9	-85.57	439.2	-695.0	688.7	676.4	12.27	56.113		
7,300.0	7,282.4	7,286.3	7,285.0	9.8	5.9	-86.25	439.7	-694.7	687.7	675.3	12.42	55.377		
7,400.0	7,382.0	7,386.5	7,385.2	10.0	6.0	-86.94	440.2	-694.3	686.8	674.3	12.57	54.639		
7,500.0	7,481.6	7,486.3	7,485.0	10.1	6.1	-87.64	440.4	-693.8	685.9	673.2	12.73	53.902		
7,600.0	7,581.2	7,587.2	7,585.9	10.2	6.1	-88.36	440.6	-693.3	685.1	672.2	12.89	53.163		
7,700.0	7,680.8	7,688.0	7,686.7	10.3	6.2	-89.08	440.7	-692.6	684.2	671.1	13.05	52.421		
7,800.0	7,780.5	7,788.1	7,786.7	10.5	6.3	-89.82	440.7	-691.7	683.3	670.1	13.22	51.685		
7,900.0	7,880.1	7,888.0	7,886.7	10.6	6.4	-90.57	440.5	-690.9	682.5	669.1	13.39	50.963		
8,000.0	7,979.7	7,987.2	7,985.8	10.7	6.4	-91.33	440.1	-690.0	681.7	668.1	13.56	50.257		
8,100.0	8,079.3	8,086.9	8,085.6	10.8	6.5	-92.10	439.7	-689.1	681.1	667.4	13.74	49.566		
8,200.0	8,178.9	8,185.2	8,183.8	10.9	6.6	-92.86	439.2	-688.3	680.7	666.8	13.92	48.907		
8,238.2	8,217.0	8,221.9	8,220.6	11.0	6.6	-93.15	439.0	-688.1	680.7	666.7	13.98	48.672 CC		
8,300.0	8,278.6	8,282.7	8,281.3	11.1	6.7	-93.63	438.6	-687.8	680.7	666.6	14.09	48.302 ES		
8,400.0	8,378.2	8,380.6	8,379.2	11.2	6.8	-94.41	437.8	-687.4	681.0	666.7	14.27	47.739		
8,500.0	8,477.8	8,481.2	8,479.8	11.3	6.9	-95.23	436.9	-687.1	681.5	667.1	14.44	47.197		
8,600.0	8,577.4	8,581.2	8,579.8	11.4	6.6	-96.22	433.8	-686.4	682.0	667.3	14.79	46.127		
8,700.0	8,677.0	8,677.8	8,675.6	11.6	11.6	-97.87	422.5	-684.6	683.0	667.5	15.52	44.019		
8,800.0	8,776.7	8,758.5	8,753.5	11.7	12.8	-100.18	401.8	-682.2	686.1	670.0	16.08	42.679		
8,900.0	8,876.3	8,831.9	8,820.6	11.8	13.2	-103.07	372.6	-679.4	693.6	676.8	16.78	41.336		
9,000.0	8,975.9	8,918.0	8,895.2	11.9	13.5	-107.09	329.8	-673.8	705.3	687.5	17.78	39.665		
9,100.0	9,075.5	8,965.0	8,933.8	12.1	13.6	-109.48	303.3	-670.5	723.6	704.6	18.98	38.121		
9,200.0	9,175.1	9,014.2	8,972.1	12.2	13.8	-112.12	272.5	-667.3	750.0	729.6	20.42	36.737		
9,300.0	9,274.8	9,060.0	9,004.5	12.3	14.1	-114.78	240.6	-662.8	783.8	761.7	22.12	35.437		
9,400.0	9,374.4	9,107.0	9,034.2	12.5	14.3	-117.67	204.7	-656.7	825.5	801.6	23.92	34.513		
9,500.0	9,474.0	9,133.1	9,049.3	12.6	14.4	-119.31	183.7	-653.0	874.6	849.1	25.52	34.277 SF		

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #10H - OWB - ACTUAL													Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8683-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,600.0	9,573.6	9,188.6	9,079.1	12.7	14.5	-122.82	137.9	-643.0	929.7	902.7	27.02	34.406		
9,642.4	9,615.8	9,213.6	9,091.8	12.8	14.5	-124.40	117.2	-637.4	954.4	926.8	27.61	34.569		
9,700.0	9,673.3	9,226.3	9,098.1	12.8	14.5	-125.56	106.6	-634.3	989.2	960.9	28.35	34.896		
9,800.0	9,773.0	9,246.0	9,107.5	13.0	14.6	-127.44	89.9	-629.7	1,053.3	1,023.8	29.53	35.669		
9,900.0	9,872.9	9,261.2	9,114.3	13.1	14.6	-129.08	76.8	-626.1	1,121.2	1,090.6	30.59	36.647		
10,000.0	9,972.8	9,277.0	9,121.0	13.2	14.6	-130.77	63.0	-622.4	1,192.4	1,160.9	31.56	37.788		
10,100.0	10,072.8	9,289.6	9,126.2	13.3	14.6	-132.30	51.9	-619.4	1,266.3	1,233.9	32.43	39.047		
10,142.4	10,115.2	9,295.2	9,128.3	13.4	14.6	-134.05	46.9	-618.1	1,298.3	1,265.6	32.78	39.609		
10,200.0	10,172.8	9,309.0	9,133.5	13.5	14.6	-134.80	34.5	-614.9	1,342.7	1,309.4	33.24	40.396		
10,300.0	10,272.8	9,309.0	9,133.5	13.6	14.6	-134.80	34.5	-614.9	1,421.5	1,387.5	33.96	41.853		
10,400.0	10,372.8	9,325.1	9,139.2	13.7	14.7	-135.67	20.0	-611.2	1,502.6	1,467.9	34.65	43.358		
10,500.0	10,472.8	9,340.0	9,144.0	13.8	14.7	-136.47	6.3	-607.6	1,585.7	1,550.4	35.30	44.919		
10,600.0	10,572.8	9,340.0	9,144.0	14.0	14.7	-136.47	6.3	-607.6	1,670.4	1,634.5	35.89	46.544		
10,700.0	10,672.8	9,340.0	9,144.0	14.1	14.7	-136.47	6.3	-607.6	1,756.7	1,720.2	36.44	48.204		
10,800.0	10,772.8	9,356.9	9,149.0	14.2	14.7	-137.37	-9.3	-603.5	1,844.0	1,807.0	37.00	49.838		
10,900.0	10,872.8	9,371.0	9,152.8	14.4	14.7	-138.12	-22.5	-600.0	1,932.7	1,895.2	37.53	51.492		

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

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COMPASS 5000.15 Build 91E

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #11H - OWB - ACTUAL												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8607-MWD												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	54.77	482.0	682.5	835.5				
100.0	100.0	101.1	101.1	3.0	3.0	54.81	481.4	682.6	835.3	829.3	6.00	139.213	
200.0	200.0	200.4	200.4	3.0	3.0	54.86	480.6	682.8	835.0	829.0	6.00	139.049	
300.0	300.0	298.0	298.0	3.0	3.0	54.92	479.7	683.1	834.7	828.7	6.01	138.798	
400.0	400.0	398.2	398.2	3.0	3.0	54.97	479.1	683.3	834.5	828.5	6.03	138.432	
413.7	413.7	411.0	411.0	3.0	3.0	54.97	479.0	683.4	834.5	828.5	6.03	138.382	
500.0	500.0	492.0	492.0	3.1	3.0	55.01	478.7	683.9	834.8	828.8	6.04	138.112	
600.0	600.0	590.8	590.8	3.1	3.1	55.05	478.7	684.9	835.6	829.5	6.07	137.769	
700.0	700.0	690.7	690.7	3.1	3.1	55.10	478.6	686.0	836.5	830.4	6.09	137.281	
800.0	800.0	790.1	790.1	3.2	3.1	55.14	478.5	687.0	837.3	831.1	6.13	136.634	
900.0	900.0	893.5	893.4	3.2	3.1	55.18	478.5	688.0	838.0	831.9	6.17	135.824	
1,000.0	1,000.0	985.8	985.7	3.2	3.2	55.20	478.6	688.7	838.8	832.5	6.22	134.931	
1,100.0	1,100.0	1,083.0	1,083.0	3.3	3.2	55.17	479.9	689.7	840.4	834.1	6.27	133.983	
1,200.0	1,200.0	1,188.7	1,188.6	3.4	3.2	55.12	481.4	690.6	841.9	835.5	6.34	132.825	
1,300.0	1,300.0	1,297.3	1,297.2	3.4	3.2	54.96	483.8	689.7	842.5	836.1	6.40	131.650	
1,400.0	1,400.0	1,398.6	1,398.4	3.5	3.2	54.67	487.0	687.1	842.2	835.8	6.46	130.478	
1,500.0	1,500.0	1,500.9	1,500.6	3.5	3.2	54.41	490.1	684.8	842.1	835.6	6.52	129.246	
1,600.0	1,600.0	1,599.6	1,599.3	3.6	3.2	54.21	492.2	682.8	841.7	835.1	6.58	127.973	
1,700.0	1,700.0	1,700.0	1,699.6	3.7	3.3	54.01	494.4	680.7	841.3	834.6	6.64	126.636	
1,800.0	1,800.0	1,802.3	1,801.9	3.8	3.3	53.79	496.7	678.5	840.9	834.2	6.71	125.244	
1,900.0	1,900.0	1,912.1	1,911.7	3.9	3.3	53.57	498.5	675.5	839.7	832.9	6.79	123.739	
2,000.0	2,000.0	2,015.4	2,014.9	3.9	3.3	53.37	499.8	672.3	837.9	831.1	6.86	122.174	
2,100.0	2,100.0	2,120.5	2,120.0	4.0	3.3	53.31	498.9	669.5	835.2	828.3	6.93	120.532	
2,200.0	2,200.0	2,220.6	2,220.0	4.1	3.4	53.26	497.8	666.9	832.5	825.5	7.01	118.832	
2,300.0	2,300.0	2,315.2	2,314.6	4.2	3.4	53.24	496.7	664.9	830.1	823.0	7.09	117.117	
2,400.0	2,400.0	2,415.5	2,414.9	4.3	3.4	53.21	495.8	662.9	828.0	820.8	7.18	115.366	
2,500.0	2,500.0	2,510.6	2,510.0	4.4	3.5	53.20	494.8	661.5	826.2	818.9	7.27	113.644	
2,600.0	2,600.0	2,611.6	2,610.9	4.5	3.5	54.42	493.9	660.0	823.5	816.1	7.37	111.756	
2,700.0	2,699.8	2,710.2	2,709.5	4.6	3.5	54.79	493.0	658.9	819.0	811.5	7.47	109.678	
2,750.0	2,749.7	2,763.5	2,762.8	4.6	3.6	55.08	492.5	658.2	815.8	808.3	7.52	108.518	
2,800.0	2,799.5	2,816.3	2,815.6	4.7	3.6	55.33	492.0	657.1	812.3	804.7	7.57	107.307	
2,900.0	2,899.1	2,915.8	2,915.1	4.8	3.7	55.77	491.5	654.6	805.0	797.3	7.67	104.891	
3,000.0	2,998.7	3,008.1	3,007.3	4.9	3.7	56.22	490.8	653.0	798.3	790.5	7.78	102.625	
3,100.0	3,098.4	3,103.0	3,102.2	5.0	3.8	56.77	489.6	652.4	792.2	784.3	7.88	100.492	
3,200.0	3,198.0	3,201.4	3,200.6	5.1	3.8	57.36	488.3	652.4	786.7	778.7	7.99	98.499	
3,300.0	3,297.6	3,297.0	3,296.2	5.2	3.9	57.93	487.5	652.5	781.6	773.5	8.09	96.645	
3,400.0	3,397.2	3,395.6	3,394.8	5.3	3.9	58.50	487.0	652.5	776.8	768.6	8.19	94.804	
3,500.0	3,496.8	3,491.2	3,490.4	5.4	3.9	59.12	486.1	653.4	772.6	764.3	8.28	93.323	
3,600.0	3,596.4	3,597.2	3,596.4	5.5	4.0	59.74	485.8	653.7	768.2	759.8	8.38	91.622	
3,700.0	3,696.1	3,695.4	3,694.6	5.6	4.1	60.29	485.7	653.4	763.4	755.0	8.50	89.866	
3,800.0	3,795.7	3,792.8	3,792.0	5.7	4.1	60.94	484.6	653.9	759.1	750.5	8.59	88.375	
3,900.0	3,895.3	3,892.7	3,891.9	5.8	4.2	61.69	482.7	655.2	755.1	746.4	8.68	87.014	
4,000.0	3,994.9	4,001.9	4,001.0	5.9	4.2	62.34	482.2	654.5	750.2	741.4	8.79	85.299	
4,100.0	4,094.5	4,099.1	4,098.2	6.0	4.3	62.78	483.3	652.8	745.1	736.2	8.91	83.642	
4,200.0	4,194.2	4,196.9	4,196.0	6.2	4.3	63.27	484.1	651.7	740.5	731.5	9.02	82.085	
4,300.0	4,293.8	4,300.1	4,299.2	6.3	4.4	63.84	484.3	650.6	735.8	726.7	9.15	80.453	
4,400.0	4,393.4	4,401.3	4,400.4	6.4	4.5	64.43	484.2	649.3	730.8	721.5	9.28	78.776	
4,500.0	4,493.0	4,502.1	4,501.2	6.5	4.6	65.03	483.8	647.9	725.7	716.3	9.41	77.106	
4,600.0	4,592.6	4,603.2	4,602.3	6.6	4.6	65.64	483.5	646.3	720.4	710.9	9.55	75.450	
4,700.0	4,692.3	4,704.8	4,703.8	6.7	4.7	66.25	483.0	644.5	715.1	705.4	9.69	73.808	
4,800.0	4,791.9	4,818.3	4,817.3	6.8	4.8	66.85	483.1	640.5	708.4	698.6	9.84	71.961	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #11H - OWB - ACTUAL												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8607-MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,900.0	4,891.5	4,921.0	4,919.9	7.0	4.9	67.32	483.5	635.6	700.8	690.8	9.99	70.135	
5,000.0	4,991.1	5,029.6	5,028.3	7.1	5.0	67.80	483.9	629.2	692.2	682.0	10.15	68.183	
5,100.0	5,090.7	5,130.3	5,128.8	7.2	5.1	68.21	484.6	622.4	683.0	672.7	10.30	66.292	
5,200.0	5,190.4	5,230.4	5,228.6	7.3	5.2	68.62	485.2	615.6	673.7	663.2	10.45	64.440	
5,300.0	5,290.0	5,329.1	5,327.0	7.4	5.3	69.02	486.0	608.7	664.4	653.8	10.61	62.645	
5,400.0	5,389.6	5,426.8	5,424.5	7.5	5.3	69.43	486.9	602.2	655.5	644.7	10.76	60.935	
5,500.0	5,489.2	5,525.0	5,522.5	7.7	5.4	69.86	487.8	595.8	646.8	635.8	10.91	59.282	
5,600.0	5,588.8	5,623.4	5,620.8	7.8	5.5	70.29	488.9	589.6	638.3	627.2	11.06	57.690	
5,700.0	5,688.5	5,724.0	5,721.1	7.9	5.6	70.71	490.3	583.1	629.8	618.5	11.22	56.107	
5,800.0	5,788.1	5,817.6	5,814.5	8.0	5.7	71.23	490.6	578.0	621.9	610.6	11.37	54.693	
5,900.0	5,887.7	5,917.0	5,913.9	8.1	5.8	71.85	490.6	573.1	614.5	603.0	11.53	53.289	
6,000.0	5,987.3	6,015.4	6,012.1	8.3	5.9	72.45	490.7	568.3	607.2	595.6	11.69	51.944	
6,100.0	6,086.9	6,116.9	6,113.5	8.4	6.0	73.09	490.9	563.2	599.9	588.1	11.86	50.595	
6,200.0	6,186.6	6,216.4	6,212.9	8.5	6.1	73.75	490.8	558.1	592.5	580.5	12.02	49.287	
6,300.0	6,286.2	6,315.4	6,311.8	8.6	6.2	74.44	490.5	553.1	585.2	573.1	12.19	48.021	
6,400.0	6,385.8	6,414.8	6,411.0	8.7	6.3	75.15	490.2	548.1	578.0	565.6	12.35	46.781	
6,500.0	6,485.4	6,514.3	6,510.4	8.9	6.4	75.90	489.8	543.2	570.9	558.4	12.52	45.589	
6,600.0	6,585.0	6,616.2	6,612.1	9.0	6.5	76.66	489.5	537.8	563.7	551.0	12.70	44.382	
6,700.0	6,684.7	6,716.0	6,711.8	9.1	6.7	77.44	489.1	532.5	556.4	543.6	12.87	43.222	
6,800.0	6,784.3	6,815.1	6,810.8	9.2	6.8	78.24	488.6	527.2	549.3	536.2	13.05	42.101	
6,900.0	6,883.9	6,912.4	6,907.9	9.3	6.9	79.05	488.2	522.2	542.4	529.2	13.22	41.040	
7,000.0	6,983.5	7,012.6	7,008.0	9.5	7.0	79.90	487.7	517.2	535.8	522.4	13.40	39.999	
7,100.0	7,083.1	7,111.1	7,106.4	9.6	7.1	80.77	487.1	512.3	529.3	515.7	13.57	39.004	
7,200.0	7,182.7	7,210.5	7,205.6	9.7	7.2	81.67	486.6	507.5	523.1	509.4	13.75	38.042	
7,300.0	7,282.4	7,308.9	7,304.0	9.8	7.3	82.60	486.0	502.8	517.1	503.1	13.93	37.118	
7,400.0	7,382.0	7,409.0	7,403.9	10.0	7.4	83.57	485.3	498.1	511.3	497.2	14.12	36.223	
7,500.0	7,481.6	7,513.7	7,508.5	10.1	7.5	84.56	484.9	492.5	505.0	490.7	14.32	35.264	
7,600.0	7,581.2	7,612.5	7,607.2	10.2	7.7	85.52	484.4	486.8	498.4	483.9	14.51	34.356	
7,700.0	7,680.8	7,710.2	7,704.7	10.3	7.8	86.54	483.6	481.3	492.2	477.5	14.69	33.501	
7,800.0	7,780.5	7,808.0	7,802.4	10.5	7.9	87.61	482.7	476.4	486.6	471.7	14.88	32.707	
7,900.0	7,880.1	7,908.3	7,902.5	10.6	8.0	88.71	481.8	471.3	481.2	466.1	15.07	31.921	
8,000.0	7,979.7	8,009.0	8,003.1	10.7	8.1	89.87	480.7	466.0	475.8	460.5	15.28	31.145	
8,100.0	8,079.3	8,109.3	8,103.2	10.8	8.2	90.95	480.5	460.4	470.2	454.7	15.48	30.372	
8,200.0	8,178.9	8,210.2	8,203.9	10.9	8.4	92.01	480.7	454.6	464.6	448.9	15.69	29.610	
8,300.0	8,278.6	8,309.9	8,303.4	11.1	8.5	93.11	480.7	448.6	459.0	443.1	15.90	28.869	
8,400.0	8,378.2	8,408.1	8,401.5	11.2	8.6	94.24	480.4	442.8	453.7	437.5	16.10	28.169	
8,500.0	8,477.8	8,508.2	8,501.4	11.3	8.7	95.44	480.1	437.2	448.8	432.5	16.32	27.500	
8,600.0	8,577.4	8,607.2	8,600.2	11.4	8.8	96.66	479.7	431.5	444.0	427.5	16.50	26.901	
8,700.0	8,677.0	8,700.0	8,692.7	11.6	10.1	98.49	474.0	426.6	440.5	422.6	17.87	24.643	
8,752.7	8,729.5	8,741.3	8,733.4	11.6	10.6	99.85	467.2	424.6	439.9	421.5	18.35	23.965 CC, ES	
8,800.0	8,776.7	8,781.2	8,771.8	11.7	10.9	101.63	457.0	422.6	440.4	421.9	18.50	23.801	
8,900.0	8,876.3	8,866.2	8,850.3	11.8	11.1	106.69	424.9	417.2	445.2	426.5	18.72	23.782	
9,000.0	8,975.9	8,962.1	8,933.4	11.9	11.5	113.60	378.3	407.1	455.5	436.4	19.10	23.845	
9,100.0	9,075.5	9,018.7	8,978.7	12.1	11.8	118.24	345.7	398.0	472.9	452.9	20.06	23.579	
9,200.0	9,175.1	9,060.5	9,010.5	12.2	12.1	121.73	319.1	392.4	503.3	481.8	21.52	23.393 SF	
9,300.0	9,274.8	9,103.8	9,041.2	12.3	12.3	125.40	289.0	387.1	545.4	522.3	23.11	23.600	
9,400.0	9,374.4	9,154.9	9,074.7	12.5	12.6	129.73	251.2	379.4	596.5	571.9	24.62	24.223	
9,500.0	9,474.0	9,191.6	9,096.9	12.6	12.8	132.87	222.9	372.1	654.8	628.6	26.21	24.986	
9,600.0	9,573.6	9,218.0	9,111.5	12.7	12.9	135.11	201.7	366.4	720.2	692.5	27.71	25.988	
9,642.4	9,615.8	9,218.0	9,111.5	12.8	12.9	135.11	201.7	366.4	749.9	721.5	28.37	26.430	
9,700.0	9,673.3	9,235.2	9,120.3	12.8	13.0	136.97	187.5	362.4	791.5	762.3	29.16	27.144	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #11H - OWB - ACTUAL													Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8607-MWD													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance										Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.0	9,773.0	9,266.0	9,134.4	13.0	13.2	140.22	161.2	355.0	867.3	836.9	30.42	28.508		
9,900.0	9,872.9	9,266.0	9,134.4	13.1	13.2	141.02	161.2	355.0	945.5	914.0	31.55	29.966		
10,000.0	9,972.8	9,266.0	9,134.4	13.2	13.2	141.89	161.2	355.0	1,026.8	994.2	32.53	31.564		
10,100.0	10,072.8	9,287.2	9,142.8	13.3	13.3	144.32	142.4	349.6	1,109.7	1,076.2	33.47	33.153		
10,142.4	10,115.2	9,291.6	9,144.5	13.4	13.4	143.93	138.5	348.5	1,145.4	1,111.5	33.83	33.855		
10,200.0	10,172.8	9,313.0	9,151.7	13.5	13.5	145.38	119.2	342.9	1,194.8	1,160.4	34.37	34.760		
10,300.0	10,272.8	9,313.0	9,151.7	13.6	13.5	145.38	119.2	342.9	1,281.1	1,246.0	35.08	36.516		
10,400.0	10,372.8	9,313.0	9,151.7	13.7	13.5	145.38	119.2	342.9	1,369.3	1,333.5	35.73	38.327		
10,500.0	10,472.8	9,313.0	9,151.7	13.8	13.5	145.38	119.2	342.9	1,459.0	1,422.7	36.32	40.175		
10,600.0	10,572.8	9,335.9	9,158.5	14.0	13.6	146.90	98.1	336.9	1,549.4	1,512.5	36.93	41.962		
10,700.0	10,672.8	9,360.0	9,165.1	14.1	13.8	148.42	75.8	330.7	1,641.2	1,603.7	37.52	43.746		
10,800.0	10,772.8	9,360.0	9,165.1	14.2	13.8	148.42	75.8	330.7	1,733.3	1,695.3	38.02	45.591		
10,900.0	10,872.8	9,360.0	9,165.1	14.4	13.8	148.42	75.8	330.7	1,826.3	1,787.8	38.50	47.437		
11,000.0	10,972.8	9,360.0	9,165.1	14.5	13.8	148.42	75.8	330.7	1,920.0	1,881.1	38.96	49.278		

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

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COMPASS 5000.15 Build 91E

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #12H - OWB - ACTUAL												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8582-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	55.91	482.3	712.5	860.4				
100.0	100.0	95.2	95.2	3.0	3.0	55.89	482.5	712.5	860.5	854.5	6.00	143.411	
200.0	200.0	191.6	191.6	3.0	3.0	55.87	483.0	712.7	861.0	855.0	6.01	143.356	
300.0	300.0	292.1	292.1	3.0	3.0	55.84	483.9	713.0	861.7	855.7	6.02	143.169	
400.0	400.0	387.3	387.3	3.0	3.0	55.81	484.8	713.5	862.7	856.7	6.04	142.857	
500.0	500.0	484.6	484.6	3.1	3.0	55.77	485.9	714.2	864.0	857.9	6.07	142.409	
600.0	600.0	584.3	584.3	3.1	3.1	55.75	487.2	715.4	865.6	859.5	6.10	141.811	
700.0	700.0	716.8	716.8	3.1	3.1	55.70	487.5	714.6	865.3	859.1	6.13	141.184	
800.0	800.0	814.9	814.9	3.2	3.1	55.65	486.9	712.3	863.0	856.9	6.15	140.424	
900.0	900.0	912.3	912.2	3.2	3.1	55.59	486.4	710.2	861.0	854.8	6.17	139.509	
1,000.0	1,000.0	1,012.9	1,012.8	3.2	3.1	55.53	486.2	708.4	859.3	853.1	6.20	138.518	
1,100.0	1,100.0	1,111.7	1,111.5	3.3	3.1	55.48	485.9	706.4	857.5	851.3	6.24	137.341	
1,200.0	1,200.0	1,213.4	1,213.2	3.4	3.2	55.41	485.7	704.3	855.7	849.4	6.29	136.024	
1,300.0	1,300.0	1,313.6	1,313.4	3.4	3.2	55.36	485.4	702.6	854.1	847.7	6.35	134.596	
1,400.0	1,400.0	1,402.6	1,402.5	3.5	3.2	55.38	484.5	701.9	852.9	846.5	6.40	133.189	
1,500.0	1,500.0	1,500.2	1,500.0	3.5	3.2	55.56	482.1	703.0	852.4	845.9	6.46	131.897	
1,600.0	1,600.0	1,600.9	1,600.6	3.6	3.2	55.74	479.5	704.1	851.9	845.4	6.53	130.545	
1,700.0	1,700.0	1,703.5	1,703.2	3.7	3.2	55.94	477.0	705.4	851.6	845.0	6.59	129.185	
1,800.0	1,800.0	1,801.7	1,801.3	3.8	3.3	56.13	474.3	706.7	851.1	844.4	6.66	127.785	
1,900.0	1,900.0	1,901.5	1,901.1	3.9	3.3	56.33	471.6	708.0	850.7	843.9	6.73	126.366	
1,948.5	1,948.5	1,946.4	1,946.0	3.9	3.3	56.41	470.5	708.5	850.5	843.8	6.77	125.694	
2,000.0	2,000.0	1,992.6	1,992.2	3.9	3.3	56.46	470.0	709.1	850.7	843.9	6.80	125.067	
2,100.0	2,100.0	2,093.6	2,093.1	4.0	3.3	56.52	469.7	710.1	851.4	844.5	6.88	123.834	
2,200.0	2,200.0	2,189.4	2,188.9	4.1	3.4	56.59	469.2	711.2	852.1	845.2	6.95	122.601	
2,300.0	2,300.0	2,285.5	2,285.0	4.2	3.4	56.65	469.0	712.7	853.3	846.3	7.03	121.393	
2,400.0	2,400.0	2,385.4	2,384.9	4.3	3.4	56.69	469.4	714.2	854.7	847.6	7.11	120.136	
2,500.0	2,500.0	2,485.1	2,484.7	4.4	3.5	56.71	469.9	715.6	856.2	849.0	7.21	118.825	
2,600.0	2,600.0	2,582.1	2,581.6	4.5	3.5	57.91	470.5	717.4	857.2	849.9	7.30	117.440	
2,700.0	2,699.8	2,679.4	2,678.9	4.6	3.6	58.27	470.9	719.7	856.5	849.1	7.39	115.871	
2,750.0	2,749.7	2,725.7	2,725.2	4.6	3.6	58.54	471.0	720.9	855.7	848.2	7.44	115.057	
2,800.0	2,799.5	2,777.0	2,776.4	4.7	3.6	58.83	471.1	722.3	854.6	847.1	7.49	114.177	
2,900.0	2,899.1	2,876.4	2,875.8	4.8	3.7	59.43	471.3	725.3	852.8	845.2	7.58	112.471	
3,000.0	2,998.7	2,977.2	2,976.6	4.9	3.7	60.01	471.6	727.8	850.6	843.0	7.69	110.687	
3,100.0	3,098.4	3,082.6	3,081.9	5.0	3.8	60.60	472.0	730.0	848.3	840.5	7.80	108.823	
3,200.0	3,198.0	3,185.1	3,184.4	5.1	3.8	61.01	474.2	730.3	845.4	837.5	7.90	106.966	
3,300.0	3,297.6	3,280.1	3,279.3	5.2	3.9	61.39	476.4	730.8	842.8	834.8	8.01	105.218	
3,400.0	3,397.2	3,375.0	3,374.3	5.3	3.9	61.80	478.4	732.0	840.8	832.6	8.12	103.501	
3,500.0	3,496.8	3,508.4	3,507.6	5.4	4.0	62.44	480.1	733.1	838.3	830.1	8.25	101.584	
3,600.0	3,596.4	3,611.0	3,610.2	5.5	4.0	62.96	479.5	731.1	832.4	824.1	8.32	100.050	
3,700.0	3,696.1	3,705.3	3,704.5	5.6	4.0	63.49	478.6	730.1	827.0	818.6	8.39	98.587	
3,800.0	3,795.7	3,801.2	3,800.4	5.7	4.1	64.11	476.9	729.9	822.1	813.6	8.47	97.097	
3,900.0	3,895.3	3,897.5	3,896.7	5.8	4.1	64.82	474.4	730.6	817.8	809.2	8.55	95.614	
4,000.0	3,994.9	4,000.0	3,999.1	5.9	4.2	65.62	471.0	731.3	813.3	804.7	8.64	94.123	
4,100.0	4,094.5	4,088.9	4,087.9	6.0	4.2	66.24	469.5	732.1	809.9	801.1	8.73	92.719	
4,200.0	4,194.2	4,186.2	4,185.3	6.2	4.3	66.86	468.9	733.2	807.2	798.3	8.84	91.267	
4,300.0	4,293.8	4,301.7	4,300.8	6.3	4.4	67.53	468.8	733.0	803.5	794.6	8.94	89.844	
4,400.0	4,393.4	4,402.1	4,401.2	6.4	4.4	68.11	468.4	732.0	799.1	790.1	9.03	88.545	
4,500.0	4,493.0	4,500.0	4,499.1	6.5	4.4	68.68	467.9	731.0	794.8	785.7	9.11	87.253	
4,600.0	4,592.6	4,600.0	4,599.1	6.6	4.5	69.28	467.4	730.1	790.6	781.4	9.20	85.958	
4,700.0	4,692.3	4,699.4	4,698.5	6.7	4.5	69.90	466.6	729.2	786.5	777.2	9.29	84.667	
4,800.0	4,791.9	4,799.1	4,798.2	6.8	4.5	70.54	465.7	728.4	782.4	773.0	9.38	83.370	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #12H - OWB - ACTUAL													Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8582-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.0	4,891.5	4,899.2	4,898.2	7.0	4.6	71.19		464.7	727.5	778.3	768.8	9.48	82.078	
5,000.0	4,991.1	4,996.0	4,995.0	7.1	4.7	71.86		463.3	726.8	774.4	764.8	9.58	80.826	
5,100.0	5,090.7	5,095.3	5,094.3	7.2	4.7	72.56		461.8	726.3	770.8	761.1	9.68	79.599	
5,200.0	5,190.4	5,196.5	5,195.5	7.3	4.8	73.29		460.3	725.8	767.2	757.5	9.79	78.378	
5,300.0	5,290.0	5,296.2	5,295.1	7.4	4.9	74.01		458.7	725.1	763.7	753.8	9.90	77.178	
5,400.0	5,389.6	5,395.6	5,394.6	7.5	4.9	74.70		457.7	724.5	760.4	750.4	10.00	76.007	
5,500.0	5,489.2	5,494.6	5,493.5	7.7	5.0	75.24		458.5	723.4	757.3	747.2	10.12	74.847	
5,600.0	5,588.8	5,594.0	5,593.0	7.8	5.0	75.78		459.5	722.3	754.3	744.1	10.24	73.696	
5,700.0	5,688.5	5,693.4	5,692.3	7.9	5.0	76.32		460.6	721.2	751.4	741.0	10.35	72.571	
5,800.0	5,788.1	5,793.9	5,792.9	8.0	5.1	76.87		461.7	719.9	748.4	737.9	10.47	71.442	
5,900.0	5,887.7	5,894.5	5,893.4	8.1	5.1	77.43		462.6	718.5	745.3	734.7	10.60	70.317	
6,000.0	5,987.3	5,995.4	5,994.2	8.3	5.2	77.99		463.6	717.0	742.2	731.5	10.73	69.201	
6,100.0	6,086.9	6,092.4	6,091.3	8.4	5.2	78.53		464.7	715.8	739.5	728.7	10.85	68.162	
6,200.0	6,186.6	6,190.5	6,189.4	8.5	5.3	79.08		465.8	714.7	737.0	726.0	10.98	67.144	
6,300.0	6,286.2	6,291.6	6,290.4	8.6	5.3	79.65		466.9	713.5	734.4	723.3	11.11	66.111	
6,400.0	6,385.8	6,392.0	6,390.8	8.7	5.4	80.22		468.0	712.4	732.0	720.8	11.24	65.116	
6,500.0	6,485.4	6,489.3	6,488.2	8.9	5.4	80.79		469.0	711.3	729.6	718.3	11.37	64.148	
6,600.0	6,585.0	6,591.7	6,590.5	9.0	5.5	81.39		470.0	710.3	727.5	716.0	11.51	63.183	
6,700.0	6,684.7	6,685.8	6,684.6	9.1	5.6	81.95		470.8	709.3	725.3	713.7	11.65	62.272	
6,800.0	6,784.3	6,781.3	6,780.1	9.2	5.6	82.53		471.8	709.4	724.4	712.6	11.77	61.528	
6,900.0	6,883.9	6,881.1	6,879.9	9.3	5.7	83.12		473.0	709.4	723.4	711.5	11.91	60.764	
7,000.0	6,983.5	6,979.8	6,978.6	9.5	5.7	83.67		474.6	709.4	722.7	710.7	12.04	60.034	
7,100.0	7,083.1	7,079.1	7,077.9	9.6	5.8	84.22		476.4	709.6	722.2	710.0	12.17	59.320	
7,200.0	7,182.7	7,180.7	7,179.4	9.7	5.9	84.80		477.9	709.5	721.4	709.1	12.31	58.587	
7,300.0	7,282.4	7,279.9	7,278.6	9.8	5.9	85.37		479.3	709.6	720.9	708.4	12.45	57.883	
7,400.0	7,382.0	7,378.5	7,377.2	10.0	6.0	85.94		480.6	709.6	720.4	707.8	12.60	57.190	
7,500.0	7,481.6	7,479.1	7,477.8	10.1	6.1	86.53		482.0	709.6	720.0	707.2	12.74	56.511	
7,557.8	7,539.1	7,535.1	7,533.8	10.2	6.1	86.87		482.7	709.8	719.9	707.1	12.82	56.144	
7,600.0	7,581.2	7,577.1	7,575.8	10.2	6.1	87.12		483.1	710.0	719.9	707.0	12.88	55.881	
7,610.0	7,591.2	7,586.9	7,585.6	10.2	6.1	87.18		483.2	710.0	719.9	707.0	12.90	55.819	
7,700.0	7,680.8	7,675.8	7,674.5	10.3	6.2	87.74		484.0	710.4	720.0	706.9	13.03	55.269	
7,800.0	7,780.5	7,775.9	7,774.6	10.5	6.3	88.39		484.6	710.8	720.1	706.9	13.17	54.671	
7,900.0	7,880.1	7,878.1	7,876.8	10.6	6.3	89.11		484.5	711.0	720.2	706.8	13.32	54.069	
7,903.8	7,883.9	7,881.7	7,880.4	10.6	6.3	89.13		484.5	711.0	720.2	706.8	13.32	54.045	
8,000.0	7,979.7	7,978.7	7,977.4	10.7	6.4	89.87		483.7	711.1	720.2	706.7	13.47	53.540	
8,007.5	7,987.2	7,985.9	7,984.6	10.7	6.4	89.93		483.6	711.1	720.2	706.7	13.49	53.404	
8,100.0	8,079.3	8,077.6	8,076.3	10.8	6.4	90.64		482.6	711.2	720.3	706.7	13.63	52.844	
8,178.9	8,158.0	8,158.2	8,156.9	10.9	6.4	91.29		481.5	711.1	720.3	706.5	13.76	52.349	
8,200.0	8,178.9	8,178.8	8,177.5	10.9	6.5	91.46		481.2	711.1	720.3	706.5	13.79	52.221	
8,300.0	8,278.6	8,282.2	8,280.8	11.1	6.5	92.31		479.5	710.8	720.3	706.4	13.96	51.595	
8,400.0	8,378.2	8,383.4	8,382.0	11.2	6.6	93.16		477.6	709.9	719.9	705.7	14.13	50.938	
8,500.0	8,477.8	8,484.6	8,483.2	11.3	6.6	94.02		475.6	708.7	719.4	705.1	14.31	50.276	
8,600.0	8,577.4	8,585.1	8,583.7	11.4	6.7	94.86		473.9	707.5	718.9	704.5	14.46	49.701	
8,624.3	8,601.6	8,606.0	8,604.6	11.5	6.7	95.02		473.6	707.2	718.9	704.4	14.49	49.596 CC, ES	
8,700.0	8,677.0	8,652.2	8,650.7	11.6	8.2	95.54		471.1	707.6	720.4	705.4	15.00	48.027	
8,800.0	8,776.7	8,700.0	8,698.0	11.7	10.2	96.37		464.5	709.7	727.6	712.1	15.55	46.783	
8,900.0	8,876.3	8,755.7	8,751.7	11.8	11.6	97.76		451.0	714.8	741.6	725.6	16.04	46.239	
9,000.0	8,975.9	8,816.7	8,808.5	11.9	11.8	99.64		430.4	723.0	762.1	745.4	16.72	45.576	
9,100.0	9,075.5	8,880.1	8,865.5	12.1	12.1	101.87		404.1	732.2	787.8	770.3	17.47	45.092	
9,200.0	9,175.1	8,936.0	8,913.3	12.2	12.3	104.08		376.3	740.4	818.7	800.3	18.45	44.375	
9,300.0	9,274.8	8,983.0	8,952.2	12.3	12.4	105.99		351.0	747.9	855.4	835.8	19.60	43.634	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #12H - OWB - ACTUAL													Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8582-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,400.0	9,374.4	9,030.0	8,989.7	12.5	12.5	107.92	324.0	756.4	897.9	877.0	20.81	43.142		
9,500.0	9,474.0	9,054.5	9,008.2	12.6	12.6	108.96	308.7	761.1	946.4	924.0	22.36	42.328		
9,600.0	9,573.6	9,077.0	9,024.3	12.7	12.7	109.95	293.7	765.6	1,000.8	976.9	23.86	41.940		
9,642.4	9,615.8	9,077.0	9,024.3	12.8	12.7	109.95	293.7	765.6	1,025.7	1,001.1	24.53	41.813 SF		
9,700.0	9,673.3	9,104.6	9,043.0	12.8	12.8	111.58	274.3	771.5	1,060.3	1,035.0	25.27	41.961		
9,800.0	9,773.0	9,124.0	9,055.6	13.0	12.9	113.19	260.1	775.7	1,123.8	1,097.2	26.61	42.229		
9,900.0	9,872.9	9,172.0	9,085.4	13.1	13.0	116.02	224.0	786.1	1,190.1	1,162.5	27.60	43.117		
10,000.0	9,972.8	9,191.8	9,097.1	13.2	13.0	117.66	208.6	790.3	1,259.0	1,230.3	28.69	43.887		
10,100.0	10,072.8	9,218.0	9,111.8	13.3	13.1	119.57	187.7	796.1	1,330.5	1,300.8	29.66	44.859		
10,142.4	10,115.2	9,218.0	9,111.8	13.4	13.1	118.88	187.7	796.1	1,361.4	1,331.3	30.10	45.228		
10,200.0	10,172.8	9,218.0	9,111.8	13.5	13.1	118.88	187.7	796.1	1,404.3	1,373.6	30.67	45.782		
10,300.0	10,272.8	9,237.1	9,121.8	13.6	13.1	119.59	172.0	800.5	1,480.5	1,448.9	31.59	46.874		
10,400.0	10,372.8	9,266.0	9,135.5	13.7	13.2	120.64	147.7	807.9	1,559.7	1,527.3	32.44	48.076		
10,500.0	10,472.8	9,266.0	9,135.5	13.8	13.2	120.64	147.7	807.9	1,640.0	1,606.8	33.25	49.322		
10,600.0	10,572.8	9,266.0	9,135.5	14.0	13.2	120.64	147.7	807.9	1,722.4	1,688.4	34.00	50.657		
10,700.0	10,672.8	9,266.0	9,135.5	14.1	13.2	120.64	147.7	807.9	1,806.6	1,771.9	34.70	52.061		
10,800.0	10,772.8	9,266.0	9,135.5	14.2	13.2	120.64	147.7	807.9	1,892.3	1,856.9	35.36	53.518		
10,900.0	10,872.8	9,286.5	9,144.1	14.4	13.3	121.37	130.0	813.7	1,978.6	1,942.5	36.07	54.857		

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

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COMPASS 5000.15 Build 91E

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #4H - OWB - ACTUAL												Offset Site Error:	0.0 usft
Survey Program: 100-GYRO-NS, 9967-MWD												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	58.22	503.3	812.5	955.8				
100.0	100.0	99.7	99.7	3.0	3.0	58.21	503.4	812.4	955.7	949.7	6.01	159.108	
200.0	200.0	199.7	199.7	3.0	3.1	58.18	503.8	812.1	955.7	949.6	6.08	157.068	
300.0	300.0	299.5	299.5	3.0	3.3	58.15	504.3	811.8	955.7	949.5	6.22	153.703	
301.4	301.4	300.9	300.9	3.0	3.3	58.15	504.3	811.8	955.7	949.5	6.22	153.649	
400.0	400.0	397.8	397.8	3.0	3.5	58.11	504.9	811.6	955.8	949.4	6.39	149.461	
500.0	500.0	494.1	494.1	3.1	3.7	58.06	505.8	811.4	956.2	949.5	6.62	144.497	
600.0	600.0	591.0	590.9	3.1	3.9	58.01	506.9	811.6	956.9	950.0	6.87	139.193	
700.0	700.0	690.5	690.5	3.1	4.2	57.97	508.0	812.0	957.8	950.7	7.16	133.824	
800.0	800.0	789.4	789.4	3.2	4.4	57.93	509.1	812.4	958.8	951.4	7.45	128.681	
900.0	900.0	899.5	899.4	3.2	4.7	57.88	510.1	812.6	959.4	951.6	7.77	123.467	
1,000.0	1,000.0	1,002.7	1,002.7	3.2	5.0	57.86	510.3	812.2	959.2	951.2	8.03	119.461	
1,100.0	1,100.0	1,100.0	1,100.0	3.3	5.2	57.86	510.2	812.1	959.0	950.7	8.34	114.975	
1,200.0	1,200.0	1,199.8	1,199.8	3.4	5.5	57.86	510.1	812.0	959.0	950.3	8.68	110.525	
1,300.0	1,300.0	1,299.7	1,299.7	3.4	5.8	57.86	510.1	812.0	959.0	950.0	9.02	106.360	
1,400.0	1,400.0	1,400.7	1,400.7	3.5	6.1	57.86	510.1	812.0	958.9	949.5	9.36	102.473	
1,500.0	1,500.0	1,500.0	1,500.0	3.5	6.4	57.86	510.0	811.9	958.8	949.1	9.70	98.834	
1,600.0	1,600.0	1,600.0	1,600.0	3.6	6.7	57.86	510.0	811.9	958.8	948.7	10.06	95.340	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	7.1	57.87	510.0	811.9	958.7	948.3	10.42	92.023	
1,800.0	1,800.0	1,799.9	1,799.8	3.8	7.4	57.87	509.9	811.8	958.7	947.9	10.78	88.937	
1,900.0	1,900.0	1,900.0	1,900.0	3.9	7.7	57.87	509.9	811.8	958.6	947.5	11.14	86.018	
2,000.0	2,000.0	2,000.0	2,000.0	3.9	8.1	57.87	509.8	811.7	958.6	947.1	11.51	83.248	
2,100.0	2,100.0	2,099.5	2,099.5	4.0	8.4	57.87	509.8	811.7	958.5	946.7	11.87	80.733	
2,100.7	2,100.7	2,100.3	2,100.2	4.0	8.4	57.87	509.8	811.7	958.5	946.7	11.88	80.715	
2,200.0	2,200.0	2,199.2	2,199.2	4.1	8.7	57.87	509.8	811.7	958.5	946.3	12.23	78.395	
2,300.0	2,300.0	2,298.1	2,298.0	4.2	9.0	57.87	509.8	811.8	958.6	946.1	12.58	76.217	
2,400.0	2,400.0	2,399.4	2,399.3	4.3	9.3	57.87	509.9	811.9	958.7	945.8	12.96	74.000	
2,500.0	2,500.0	2,496.6	2,496.6	4.4	9.7	57.87	509.9	812.0	958.9	945.6	13.32	71.962	
2,600.0	2,600.0	2,596.8	2,596.7	4.5	10.0	59.04	510.3	812.2	958.3	944.6	13.71	69.879	
2,700.0	2,699.8	2,698.0	2,698.0	4.6	10.3	59.32	511.0	812.0	955.8	941.7	14.11	67.737	
2,750.0	2,749.7	2,748.8	2,748.8	4.6	10.5	59.54	511.3	811.9	953.9	939.6	14.31	66.679	
2,800.0	2,799.5	2,799.6	2,799.5	4.7	10.6	59.75	511.5	811.7	951.7	937.2	14.50	65.634	
2,900.0	2,899.1	2,900.0	2,900.0	4.8	11.0	60.18	511.8	811.4	947.1	932.2	14.87	63.690	
3,000.0	2,998.7	2,996.3	2,996.2	4.9	11.3	60.64	511.5	811.5	942.8	927.5	15.25	61.828	
3,100.0	3,098.4	3,088.6	3,088.5	5.0	11.6	61.12	511.2	812.3	939.1	923.5	15.61	60.174	
3,200.0	3,198.0	3,186.7	3,186.6	5.1	11.9	61.59	511.5	813.4	936.0	920.1	15.98	58.576	
3,300.0	3,297.6	3,290.1	3,290.1	5.2	12.3	62.05	512.4	814.1	932.9	916.5	16.39	56.927	
3,400.0	3,397.2	3,398.1	3,398.0	5.3	12.6	62.53	513.1	814.1	929.2	912.4	16.81	55.290	
3,500.0	3,496.8	3,493.8	3,493.7	5.4	12.9	62.98	513.1	814.1	925.2	908.0	17.17	53.892	
3,600.0	3,596.4	3,586.1	3,586.0	5.5	13.2	63.44	513.3	814.7	921.9	904.4	17.52	52.626	
3,700.0	3,696.1	3,691.5	3,691.4	5.6	13.6	63.90	514.4	815.2	918.9	901.0	17.94	51.211	
3,800.0	3,795.7	3,792.6	3,792.5	5.7	14.0	64.35	515.3	815.1	915.5	897.1	18.35	49.885	
3,900.0	3,895.3	3,892.9	3,892.8	5.8	14.3	64.82	515.8	815.2	912.0	893.2	18.76	48.621	
4,000.0	3,994.9	3,992.5	3,992.5	5.9	14.7	65.30	516.0	815.3	908.5	889.3	19.16	47.416	
4,100.0	4,094.5	4,092.8	4,092.7	6.0	15.0	65.78	516.4	815.3	905.1	885.5	19.56	46.263	
4,200.0	4,194.2	4,190.9	4,190.8	6.2	15.3	66.23	517.2	815.2	901.7	881.8	19.96	45.181	
4,300.0	4,293.8	4,297.4	4,297.3	6.3	15.7	66.74	517.6	815.0	898.2	877.9	20.36	44.107	
4,400.0	4,393.4	4,406.1	4,406.0	6.4	16.1	67.32	516.9	814.1	893.8	873.0	20.79	42.990	
4,500.0	4,493.0	4,500.0	4,499.9	6.5	16.4	67.88	515.5	813.6	889.4	868.3	21.17	42.012	
4,600.0	4,592.6	4,589.9	4,589.8	6.6	16.7	68.45	514.1	814.1	886.0	864.5	21.53	41.151	
4,700.0	4,692.3	4,680.5	4,680.4	6.7	17.0	69.00	513.2	815.2	883.6	861.7	21.88	40.378	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #4H - OWB - ACTUAL													Offset Site Error:	0.0 usft
Survey Program: 100-GYRO-NS, 9967-MWD													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.0	4,791.9	4,781.3	4,781.2	6.8	17.3	69.54		513.6	816.5	881.9	859.6	22.28	39.580	
4,900.0	4,891.5	4,889.0	4,888.9	7.0	17.7	70.03		515.1	816.8	879.6	856.9	22.71	38.726	
5,000.0	4,991.1	4,996.6	4,996.5	7.1	18.1	70.51		516.5	816.0	876.4	853.3	23.14	37.878	
5,100.0	5,090.7	5,096.4	5,096.3	7.2	18.4	70.95		517.5	814.9	872.8	849.3	23.53	37.092	
5,200.0	5,190.4	5,196.8	5,196.6	7.3	18.8	71.40		518.6	813.7	869.3	845.3	23.93	36.328	
5,300.0	5,290.0	5,297.1	5,296.9	7.4	19.1	71.85		519.8	812.4	865.7	841.4	24.33	35.588	
5,400.0	5,389.6	5,397.8	5,397.6	7.5	19.4	72.31		520.9	811.0	862.1	837.4	24.72	34.867	
5,500.0	5,489.2	5,497.3	5,497.0	7.7	19.8	72.76		521.9	809.7	858.5	833.4	25.12	34.174	
5,600.0	5,588.8	5,594.3	5,594.0	7.8	20.1	73.21		523.0	808.5	855.1	829.6	25.51	33.520	
5,700.0	5,688.5	5,693.1	5,692.8	7.9	20.4	73.68		524.1	807.5	852.0	826.1	25.91	32.887	
5,800.0	5,788.1	5,790.1	5,789.9	8.0	20.8	74.15		525.1	806.7	849.1	822.8	26.30	32.288	
5,900.0	5,887.7	5,889.0	5,888.7	8.1	21.1	74.63		526.0	806.2	846.6	819.9	26.70	31.707	
6,000.0	5,987.3	5,987.6	5,987.4	8.3	21.5	75.14		526.8	805.9	844.2	817.1	27.10	31.149	
6,100.0	6,086.9	6,089.3	6,089.0	8.4	21.8	75.67		527.5	805.5	841.8	814.3	27.51	30.597	
6,200.0	6,186.6	6,189.8	6,189.6	8.5	22.2	76.21		528.0	805.0	839.3	811.4	27.92	30.063	
6,300.0	6,286.2	6,289.0	6,288.7	8.6	22.5	76.75		528.4	804.5	836.9	808.5	28.32	29.552	
6,400.0	6,385.8	6,388.2	6,387.9	8.7	22.8	77.30		528.7	804.1	834.6	805.8	28.72	29.058	
6,500.0	6,485.4	6,488.5	6,488.2	8.9	23.2	77.86		529.0	803.6	832.3	803.2	29.13	28.576	
6,600.0	6,585.0	6,589.1	6,588.8	9.0	23.5	78.44		529.1	803.1	830.1	800.5	29.54	28.102	
6,700.0	6,684.7	6,688.1	6,687.8	9.1	23.9	79.00		529.3	802.6	827.9	797.9	29.94	27.648	
6,800.0	6,784.3	6,787.8	6,787.5	9.2	24.2	79.57		529.5	802.1	825.8	795.4	30.35	27.207	
6,900.0	6,883.9	6,885.6	6,885.3	9.3	24.6	80.13		529.8	801.7	823.9	793.1	30.76	26.787	
7,000.0	6,983.5	6,984.8	6,984.5	9.5	24.9	80.69		530.3	801.4	822.2	791.1	31.17	26.379	
7,100.0	7,083.1	7,085.8	7,085.5	9.6	25.3	81.27		530.6	801.1	820.6	789.0	31.59	25.978	
7,200.0	7,182.7	7,186.9	7,186.6	9.7	25.6	81.86		530.7	800.6	818.9	786.9	32.01	25.582	
7,300.0	7,282.4	7,289.8	7,289.5	9.8	26.0	82.49		530.6	799.9	817.0	784.5	32.44	25.181	
7,400.0	7,382.0	7,388.2	7,387.9	10.0	26.3	83.11		530.0	799.1	815.0	782.1	32.87	24.795	
7,500.0	7,481.6	7,488.4	7,488.1	10.1	26.6	83.76		529.5	798.3	813.2	779.9	33.30	24.417	
7,600.0	7,581.2	7,584.6	7,584.3	10.2	27.0	84.39		528.8	797.7	811.6	777.9	33.72	24.066	
7,700.0	7,680.8	7,682.9	7,682.6	10.3	27.3	85.06		527.7	797.5	810.4	776.3	34.15	23.731	
7,800.0	7,780.5	7,782.2	7,781.9	10.5	27.6	85.78		526.2	797.4	809.5	774.9	34.58	23.408	
7,900.0	7,880.1	7,883.7	7,883.3	10.6	28.0	86.55		524.2	797.3	808.6	773.6	35.02	23.087	
8,000.0	7,979.7	7,984.8	7,984.4	10.7	28.4	87.32		522.0	796.9	807.6	772.1	35.46	22.771	
8,100.0	8,079.3	8,084.2	8,083.8	10.8	28.7	88.08		519.9	796.4	806.6	770.7	35.90	22.464	
8,200.0	8,178.9	8,186.7	8,186.3	10.9	29.1	88.86		517.9	795.7	805.6	769.2	36.36	22.157	
8,300.0	8,278.6	8,287.9	8,287.5	11.1	29.4	89.62		515.9	794.6	804.4	767.5	36.81	21.853	
8,400.0	8,378.2	8,386.5	8,386.0	11.2	29.8	90.36		514.2	793.6	803.2	766.0	37.25	21.562	
8,500.0	8,477.8	8,485.9	8,485.5	11.3	30.1	91.10		512.4	792.6	802.3	764.6	37.70	21.280	
8,600.0	8,577.4	8,597.7	8,597.2	11.4	30.5	91.86		511.4	790.7	800.9	762.7	38.20	20.967	
8,700.0	8,677.0	8,695.3	8,694.7	11.6	30.8	92.49		511.3	788.3	798.8	760.1	38.64	20.672	
8,800.0	8,776.7	8,791.4	8,790.8	11.7	31.2	93.10		511.2	786.3	797.1	758.0	39.08	20.397	
8,900.0	8,876.3	8,881.8	8,881.3	11.8	31.5	93.69		510.9	785.2	796.3	756.8	39.51	20.157	
8,909.7	8,886.0	8,890.6	8,890.0	11.8	31.5	93.75		510.9	785.1	796.3	756.8	39.55	20.136 CC, ES	
9,000.0	8,975.9	8,974.1	8,973.5	11.9	31.8	94.31		510.3	784.9	796.8	756.8	39.94	19.951	
9,100.0	9,075.5	9,069.4	9,068.8	12.1	32.1	94.97		509.4	785.4	798.0	757.6	40.38	19.765	
9,200.0	9,175.1	9,172.3	9,171.7	12.2	32.5	95.71		508.0	786.0	799.5	758.7	40.84	19.576	
9,300.0	9,274.8	9,276.8	9,276.2	12.3	32.9	96.50		505.9	785.9	800.5	759.2	41.32	19.372	
9,400.0	9,374.4	9,376.1	9,375.5	12.5	33.2	97.28		503.7	785.4	801.3	759.5	41.79	19.174	
9,500.0	9,474.0	9,471.7	9,471.0	12.6	33.5	98.03		501.5	785.2	802.5	760.2	42.24	18.996	
9,600.0	9,573.6	9,576.7	9,576.0	12.7	33.9	98.87		498.7	784.9	803.9	761.2	42.73	18.812	
9,642.4	9,615.8	9,620.3	9,619.6	12.8	34.1	99.24		497.4	784.5	804.3	761.3	42.94	18.730	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #4H - OWB - ACTUAL												Offset Site Error:	0.0 usft
Survey Program: 100-GYRO-NS, 9967-MWD												Offset Well Error:	3.0 usft
Reference				Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,700.0	9,673.3	9,676.0	9,675.3	12.8	34.3	99.68	495.8	784.1	804.8	761.6	43.21	18.626	
9,800.0	9,773.0	9,772.3	9,771.6	13.0	34.6	100.33	493.3	783.6	805.9	762.2	43.66	18.459	
9,900.0	9,872.9	9,876.5	9,875.7	13.1	35.0	100.86	491.2	783.2	806.8	762.7	44.11	18.291	
10,000.0	9,972.8	9,995.8	9,994.8	13.2	35.2	101.48	486.7	780.4	805.8	761.4	44.40	18.151	
10,100.0	10,072.8	10,088.7	10,086.5	13.3	35.2	102.62	472.5	775.6	803.9	759.4	44.50	18.063	
10,142.4	10,115.2	10,132.3	10,128.8	13.4	35.3	102.28	462.4	772.6	803.1	758.6	44.56	18.024	
10,200.0	10,172.8	10,183.2	10,177.4	13.5	35.3	103.36	447.9	768.8	802.5	757.8	44.64	17.976	
10,279.8	10,252.7	10,264.3	10,252.3	13.6	35.3	105.57	418.1	760.3	801.7	756.9	44.81	17.893	
10,300.0	10,272.8	10,280.0	10,266.4	13.6	35.3	106.06	411.4	758.5	801.8	756.9	44.85	17.878	
10,400.0	10,372.8	10,375.3	10,348.3	13.7	35.4	109.52	364.9	744.9	803.4	758.2	45.15	17.794	
10,500.0	10,472.8	10,457.6	10,411.8	13.8	35.5	113.25	315.2	728.2	807.9	762.4	45.55	17.737	
10,600.0	10,572.8	10,494.0	10,437.6	14.0	35.5	115.06	290.8	720.4	819.7	773.8	45.90	17.856	
10,700.0	10,672.8	10,537.9	10,466.9	14.1	35.5	117.32	259.4	711.7	840.1	793.7	46.33	18.132	
10,800.0	10,772.8	10,573.1	10,488.4	14.2	35.6	119.23	232.4	704.3	868.6	821.8	46.74	18.583	
10,900.0	10,872.8	10,586.0	10,495.7	14.4	35.6	119.94	222.2	701.6	905.6	858.5	47.03	19.256	
11,000.0	10,972.8	10,618.0	10,512.3	14.5	35.6	121.75	195.7	695.2	950.4	903.0	47.36	20.068	
11,100.0	11,072.8	10,618.0	10,512.3	14.6	35.6	121.75	195.7	695.2	1,002.6	955.1	47.49	21.114	
11,200.0	11,172.8	10,649.0	10,526.0	14.7	35.7	123.54	168.5	689.3	1,060.9	1,013.2	47.74	22.225	
11,300.0	11,272.8	10,649.0	10,526.0	14.9	35.7	123.54	168.5	689.3	1,124.6	1,076.8	47.80	23.529	
11,400.0	11,372.8	10,664.9	10,532.1	15.0	35.7	124.46	154.1	686.3	1,193.0	1,145.1	47.94	24.883	
11,500.0	11,472.8	10,681.0	10,537.6	15.1	35.8	125.40	139.3	683.2	1,265.3	1,217.2	48.09	26.310	
11,600.0	11,572.8	10,681.0	10,537.6	15.2	35.8	125.40	139.3	683.2	1,340.9	1,293.1	47.79	28.059	
11,626.7	11,599.5	10,681.0	10,537.6	15.2	35.8	125.40	139.3	683.2	1,361.6	1,313.8	47.81	28.477	
11,650.0	11,622.8	10,691.5	10,540.9	15.2	35.8	-50.90	129.6	681.2	1,379.5	1,331.6	47.88	28.814	
11,675.0	11,647.7	10,694.8	10,542.0	15.2	35.8	-48.08	126.5	680.6	1,398.4	1,350.5	47.91	29.191	
11,700.0	11,672.5	10,698.4	10,543.0	15.2	35.8	-45.50	123.1	679.8	1,417.0	1,369.0	47.94	29.560	
11,725.0	11,697.1	10,712.0	10,546.9	15.2	35.8	-42.72	110.4	677.1	1,435.1	1,387.1	48.00	29.897	
11,750.0	11,721.5	10,712.0	10,546.9	15.2	35.8	-40.76	110.4	677.1	1,452.7	1,404.7	48.01	30.257	
11,775.0	11,745.4	10,712.0	10,546.9	15.2	35.8	-38.97	110.4	677.1	1,469.7	1,421.7	48.02	30.608	
11,800.0	11,769.0	10,712.0	10,546.9	15.2	35.8	-37.34	110.4	677.1	1,486.2	1,438.2	48.02	30.950	
11,825.0	11,792.2	10,712.0	10,546.9	15.3	35.8	-35.85	110.4	677.1	1,502.2	1,454.2	48.02	31.280	
11,850.0	11,814.8	10,712.0	10,546.9	15.3	35.8	-34.50	110.4	677.1	1,517.6	1,469.6	48.02	31.600	
11,875.0	11,836.8	10,712.0	10,546.9	15.3	35.8	-33.28	110.4	677.1	1,532.4	1,484.3	48.02	31.908	
11,900.0	11,858.1	10,727.2	10,550.6	15.3	35.9	-31.80	96.0	673.9	1,546.2	1,498.1	48.08	32.157	
11,925.0	11,878.8	10,743.0	10,553.9	15.3	35.9	-30.47	80.9	670.7	1,559.7	1,511.6	48.14	32.402	
11,950.0	11,898.7	10,743.0	10,553.9	15.3	35.9	-29.60	80.9	670.7	1,572.2	1,524.1	48.13	32.665	
11,975.0	11,917.7	10,743.0	10,553.9	15.4	35.9	-28.82	80.9	670.7	1,584.0	1,535.9	48.13	32.913	
12,000.0	11,935.9	10,743.0	10,553.9	15.4	35.9	-28.11	80.9	670.7	1,595.1	1,547.0	48.13	33.146	
12,025.0	11,953.2	10,743.0	10,553.9	15.4	35.9	-27.47	80.9	670.7	1,605.5	1,557.4	48.12	33.363	
12,050.0	11,969.5	10,743.0	10,553.9	15.4	35.9	-26.90	80.9	670.7	1,615.2	1,567.0	48.12	33.564	
12,075.0	11,984.8	10,743.0	10,553.9	15.5	35.9	-26.38	80.9	670.7	1,624.0	1,575.9	48.12	33.749	
12,100.0	11,999.0	10,743.0	10,553.9	15.5	35.9	-25.93	80.9	670.7	1,632.2	1,584.1	48.12	33.916	
12,125.0	12,012.2	10,743.0	10,553.9	15.5	35.9	-25.53	80.9	670.7	1,639.5	1,591.4	48.13	34.066	
12,150.0	12,024.2	10,743.0	10,553.9	15.5	35.9	-25.18	80.9	670.7	1,646.1	1,598.0	48.14	34.197	
12,175.0	12,035.0	10,769.3	10,557.7	15.5	36.0	-24.60	55.4	665.4	1,650.7	1,602.3	48.36	34.134	
12,200.0	12,044.6	10,773.4	10,558.1	15.6	36.0	-24.32	51.4	664.6	1,655.3	1,606.9	48.40	34.198	
12,225.0	12,053.1	10,801.0	10,559.5	15.6	36.1	-23.86	24.4	659.3	1,659.9	1,611.3	48.63	34.132	
12,250.0	12,060.3	10,801.0	10,559.5	15.6	36.1	-23.74	24.4	659.3	1,662.5	1,613.8	48.65	34.173	
12,275.0	12,066.2	10,801.0	10,559.5	15.6	36.1	-23.66	24.4	659.3	1,664.2	1,615.5	48.67	34.194	
12,300.0	12,070.8	10,801.0	10,559.5	15.6	36.1	-23.61	24.4	659.3	1,665.1	1,616.4	48.69	34.196	
12,325.0	12,074.2	10,801.0	10,559.5	15.6	36.1	-23.61	24.4	659.3	1,665.1	1,616.4	48.72	34.178	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #4H - OWB - ACTUAL													Offset Site Error:	0.0 usft
Survey Program: 100-GYRO-NS, 9967-MWD													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,350.0	12,076.2	10,801.0	10,559.5	15.6	36.1	-23.65	24.4	659.3	1,664.4	1,615.6	48.75	34.140		
12,377.2	12,077.0	10,808.6	10,559.6	15.6	36.1	-23.69	16.9	657.9	1,662.6	1,613.8	48.81	34.063		
12,400.0	12,076.9	10,822.5	10,559.7	15.6	36.2	-23.60	3.3	655.2	1,660.6	1,611.8	48.88	33.975		
12,500.0	12,076.8	10,893.4	10,559.0	15.7	36.5	-23.15	-66.4	641.9	1,653.5	1,604.3	49.13	33.656		
12,600.0	12,076.7	10,973.4	10,557.8	15.7	36.8	-22.69	-145.2	628.4	1,647.8	1,598.4	49.41	33.348		
12,700.0	12,076.6	11,065.5	10,556.8	15.7	37.3	-22.23	-236.4	615.1	1,642.9	1,593.1	49.76	33.017		
12,800.0	12,076.5	11,145.0	10,556.1	15.8	37.8	-21.91	-315.3	606.1	1,639.1	1,588.9	50.15	32.685		
12,900.0	12,076.4	11,217.5	10,555.1	15.8	38.3	-21.68	-387.6	600.0	1,636.7	1,586.1	50.58	32.358		
13,000.0	12,076.3	11,307.0	10,553.7	15.8	38.9	-21.46	-476.8	594.4	1,635.6	1,584.5	51.08	32.019		
13,082.2	12,076.3	11,374.0	10,552.7	15.9	39.4	-21.33	-543.8	591.4	1,635.1	1,583.6	51.52	31.735		
13,100.0	12,076.2	11,387.3	10,552.5	15.9	39.5	-21.32	-557.2	591.1	1,635.1	1,583.5	51.62	31.676		
13,200.0	12,076.1	11,472.3	10,551.1	15.9	40.2	-21.26	-642.1	590.5	1,636.0	1,583.8	52.22	31.330		
13,300.0	12,076.0	11,558.9	10,550.0	16.0	40.9	-21.28	-728.7	592.0	1,637.5	1,584.6	52.87	30.971		
13,400.0	12,075.9	11,644.7	10,548.1	16.7	41.6	-21.30	-814.5	594.2	1,640.1	1,586.6	53.57	30.619		
13,500.0	12,075.8	11,740.8	10,546.4	17.4	42.5	-21.39	-910.4	598.0	1,642.9	1,588.5	54.33	30.238		
13,600.0	12,075.7	11,827.4	10,544.2	18.1	43.2	-21.48	-996.9	602.3	1,646.6	1,591.5	55.12	29.873		
13,700.0	12,075.6	11,976.0	10,542.4	18.8	44.7	-21.67	-1,145.2	610.0	1,649.4	1,593.3	56.14	29.378		
13,800.0	12,075.5	12,062.6	10,542.6	19.5	45.5	-21.78	-1,231.8	614.0	1,650.6	1,593.5	57.04	28.938		
13,900.0	12,075.4	12,197.5	10,542.9	20.3	46.9	-21.95	-1,366.5	620.0	1,651.8	1,593.7	58.13	28.416		
13,903.5	12,075.4	12,190.6	10,542.8	20.3	46.9	-21.94	-1,359.6	619.7	1,651.9	1,593.7	58.13	28.416		
14,000.0	12,075.3	12,273.0	10,542.8	21.0	47.7	-22.03	-1,442.0	623.1	1,652.9	1,593.8	59.07	27.984		
14,100.0	12,075.2	12,378.6	10,542.6	21.8	48.9	-22.13	-1,547.6	627.0	1,654.1	1,594.0	60.13	27.507		
14,200.0	12,075.1	12,463.0	10,541.7	22.5	49.9	-22.17	-1,631.9	629.1	1,655.6	1,594.4	61.15	27.075		
14,300.0	12,075.0	12,584.2	10,540.5	23.3	51.3	-22.22	-1,753.1	631.9	1,657.1	1,594.7	62.33	26.584		
14,388.4	12,075.0	12,681.0	10,541.5	24.0	52.5	-22.29	-1,849.7	634.5	1,656.8	1,593.4	63.39	26.136		
14,400.0	12,074.9	12,688.4	10,541.6	24.1	52.5	-22.30	-1,857.2	634.7	1,656.8	1,593.3	63.51	26.087		
14,500.0	12,074.8	12,767.9	10,541.1	24.9	53.5	-22.35	-1,936.6	637.1	1,658.0	1,593.4	64.62	25.660		
14,600.0	12,074.7	12,879.8	10,541.6	25.7	54.9	-22.45	-2,048.4	640.7	1,658.3	1,592.4	65.91	25.161		
14,700.0	12,074.6	12,959.9	10,541.0	26.4	55.9	-22.52	-2,128.6	643.7	1,660.0	1,593.0	67.07	24.752		
14,800.0	12,074.5	13,062.2	10,541.1	27.2	57.2	-22.65	-2,230.7	648.6	1,661.4	1,593.1	68.37	24.302		
14,900.0	12,074.4	13,145.2	10,540.0	28.0	58.3	-22.75	-2,313.6	652.8	1,664.1	1,594.5	69.59	23.914		
15,000.0	12,074.3	13,249.9	10,539.5	28.9	59.7	-22.89	-2,418.1	658.1	1,666.2	1,595.2	70.95	23.484		
15,100.0	12,074.2	13,329.5	10,537.7	29.7	60.7	-22.99	-2,497.6	662.4	1,669.8	1,597.6	72.20	23.128		
15,200.0	12,074.1	13,506.9	10,538.2	30.5	63.1	-23.20	-2,674.8	670.2	1,670.7	1,596.6	74.01	22.572		
15,236.5	12,074.1	13,529.6	10,538.5	30.8	63.5	-23.23	-2,697.5	671.1	1,670.6	1,596.1	74.45	22.438		
15,300.0	12,074.0	13,577.7	10,538.9	31.3	64.1	-23.29	-2,745.5	673.1	1,670.9	1,595.6	75.26	22.202		
15,400.0	12,073.9	13,687.7	10,540.0	32.1	65.6	-23.46	-2,855.4	678.9	1,671.7	1,594.9	76.75	21.782		
15,500.0	12,073.8	13,761.1	10,540.7	32.9	66.7	-23.60	-2,928.7	683.5	1,672.8	1,594.8	78.05	21.432		
15,600.0	12,073.7	13,895.6	10,542.4	33.7	68.6	-23.83	-3,063.0	691.1	1,673.5	1,593.8	79.76	20.983		
15,606.4	12,073.7	13,900.0	10,542.5	33.8	68.6	-23.84	-3,067.4	691.3	1,673.5	1,593.7	79.84	20.961		
15,700.0	12,073.6	13,967.0	10,543.0	34.6	69.6	-23.94	-3,134.2	694.7	1,674.4	1,593.3	81.09	20.648		
15,800.0	12,073.5	14,100.6	10,545.1	35.4	71.5	-24.13	-3,267.7	700.9	1,674.3	1,591.5	82.82	20.217		
15,833.7	12,073.5	14,127.5	10,545.6	35.7	71.9	-24.17	-3,294.5	702.2	1,674.2	1,590.9	83.29	20.101		
15,900.0	12,073.4	14,183.0	10,546.4	36.2	72.7	-24.26	-3,349.9	705.0	1,674.4	1,590.2	84.24	19.877		
16,000.0	12,073.3	14,269.3	10,547.1	37.0	73.9	-24.39	-3,436.1	709.3	1,675.5	1,589.8	85.69	19.552		
16,100.0	12,073.2	14,351.8	10,546.9	37.9	75.1	-24.51	-3,518.5	713.8	1,677.5	1,590.3	87.13	19.253		
16,200.0	12,073.1	14,437.0	10,545.8	38.7	76.4	-24.62	-3,603.6	718.6	1,680.6	1,592.0	88.59	18.971		
16,300.0	12,073.0	14,516.6	10,543.9	39.5	77.5	-24.71	-3,683.0	723.0	1,684.7	1,594.7	90.00	18.718		
16,400.0	12,072.9	14,653.2	10,541.5	40.4	79.5	-24.87	-3,819.4	730.2	1,688.0	1,596.2	91.85	18.378		
16,500.0	12,072.8	14,761.2	10,540.1	41.2	81.1	-24.98	-3,927.3	735.0	1,690.7	1,597.2	93.50	18.083		
16,600.0	12,072.7	14,886.3	10,540.6	42.0	83.0	-25.11	-4,052.3	739.7	1,691.5	1,596.2	95.26	17.756		

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

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COMPASS 5000.15 Build 91E

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #4H - OWB - ACTUAL												Offset Site Error:	0.0 usft
Survey Program: 100-GYRO-NS, 9967-MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
16,700.0	12,072.6	14,982.8	10,541.1	42.9	84.5	-25.19	-4,148.8	743.0	1,692.0	1,595.2	96.85	17.471	
16,800.0	12,072.5	15,074.7	10,541.5	43.7	85.8	-25.29	-4,240.6	746.6	1,693.0	1,594.5	98.42	17.201	
16,900.0	12,072.4	15,177.1	10,541.8	44.6	87.4	-25.41	-4,342.8	751.1	1,694.2	1,594.1	100.09	16.927	
17,000.0	12,072.3	15,281.5	10,542.3	45.4	89.0	-25.53	-4,447.2	755.4	1,695.1	1,593.3	101.77	16.655	
17,100.0	12,072.2	15,379.0	10,542.8	46.2	90.5	-25.64	-4,544.6	759.4	1,696.0	1,592.5	103.42	16.398	
17,200.0	12,072.1	15,479.7	10,543.5	47.1	92.0	-25.76	-4,645.3	763.8	1,696.9	1,591.8	105.12	16.143	
17,300.0	12,072.0	15,573.1	10,543.8	47.9	93.4	-25.87	-4,738.6	767.9	1,698.0	1,591.3	106.76	15.905	
17,400.0	12,071.9	15,681.5	10,544.8	48.8	95.1	-26.02	-4,846.8	773.1	1,698.9	1,590.3	108.54	15.652	
17,500.0	12,071.8	15,769.0	10,545.1	49.6	96.4	-26.13	-4,934.2	777.1	1,700.2	1,590.0	110.17	15.432	
17,600.0	12,071.7	15,874.8	10,545.4	50.5	98.1	-26.24	-5,039.9	781.3	1,701.3	1,589.3	111.93	15.200	
17,700.0	12,071.7	15,960.9	10,544.9	51.3	99.4	-26.31	-5,125.9	784.6	1,703.0	1,589.5	113.53	15.001	
17,800.0	12,071.6	16,064.9	10,544.0	52.1	101.0	-26.36	-5,229.9	787.2	1,704.5	1,589.3	115.24	14.791	
17,900.0	12,071.5	16,132.0	10,542.4	53.0	102.1	-26.37	-5,297.0	788.8	1,707.2	1,590.6	116.66	14.635	
18,000.0	12,071.4	16,206.7	10,539.3	53.8	103.2	-26.36	-5,371.6	790.5	1,711.6	1,593.5	118.10	14.493	
18,100.0	12,071.3	16,335.1	10,533.4	54.7	105.2	-26.32	-5,499.9	793.0	1,716.3	1,596.3	119.96	14.307	
18,200.0	12,071.2	16,450.4	10,530.2	55.5	107.0	-26.34	-5,615.0	796.2	1,719.6	1,597.8	121.76	14.122	
18,300.0	12,071.1	16,575.5	10,530.2	56.4	109.0	-26.49	-5,740.0	802.1	1,721.2	1,597.5	123.75	13.910	
18,400.0	12,071.0	16,675.6	10,531.3	57.2	110.5	-26.66	-5,839.9	807.7	1,722.3	1,596.8	125.58	13.715	
18,500.0	12,070.9	16,760.2	10,532.0	58.1	111.9	-26.80	-5,924.4	812.8	1,723.9	1,596.6	127.29	13.543	
18,600.0	12,070.8	16,837.2	10,531.9	58.9	113.1	-26.93	-6,001.2	817.7	1,726.6	1,597.6	128.93	13.391	
18,700.0	12,070.7	16,925.4	10,530.5	59.8	114.5	-27.07	-6,089.2	823.7	1,730.6	1,599.9	130.66	13.245	
18,800.0	12,070.6	17,057.6	10,529.5	60.6	116.6	-27.29	-6,221.0	832.7	1,734.0	1,601.1	132.85	13.052	
18,900.0	12,070.5	17,155.6	10,530.6	61.5	118.1	-27.51	-6,318.8	840.2	1,736.1	1,601.4	134.77	12.882	
19,000.0	12,070.4	17,239.9	10,531.0	62.3	119.5	-27.69	-6,402.8	846.8	1,738.9	1,602.4	136.56	12.734	
19,100.0	12,070.3	17,333.3	10,530.6	63.2	120.9	-27.88	-6,495.9	854.0	1,742.5	1,604.1	138.42	12.588	
19,200.0	12,070.2	17,478.4	10,531.4	64.0	123.3	-28.15	-6,640.7	864.0	1,744.8	1,604.0	140.80	12.392	
19,300.0	12,070.1	17,572.3	10,532.9	64.9	124.8	-28.34	-6,734.3	870.2	1,746.0	1,603.3	142.70	12.236	
19,400.0	12,070.0	17,674.4	10,534.4	65.7	126.4	-28.54	-6,836.2	877.2	1,747.6	1,602.9	144.69	12.078	
19,500.0	12,069.9	17,799.4	10,536.5	66.6	128.4	-28.74	-6,961.0	883.9	1,748.3	1,601.4	146.84	11.906	
19,552.3	12,069.8	17,850.4	10,537.7	67.0	129.2	-28.82	-7,011.9	886.3	1,748.1	1,600.3	147.83	11.825	
19,600.0	12,069.8	17,887.2	10,538.4	67.4	129.8	-28.88	-7,048.7	888.1	1,748.3	1,599.6	148.67	11.760	
19,700.0	12,069.7	17,965.0	10,539.0	68.3	131.0	-28.98	-7,126.4	892.0	1,749.6	1,599.2	150.40	11.633	
19,800.0	12,069.6	18,050.5	10,538.4	69.1	132.4	-29.07	-7,211.8	896.0	1,752.0	1,599.9	152.15	11.515	
19,900.0	12,069.5	18,177.2	10,536.8	70.0	134.4	-29.15	-7,338.5	900.4	1,754.5	1,600.2	154.21	11.377	
20,000.0	12,069.4	18,311.6	10,536.7	70.8	136.6	-29.15	-7,472.8	901.6	1,754.4	1,598.2	156.20	11.232	
20,100.0	12,069.3	18,415.9	10,536.6	71.7	138.2	-29.10	-7,577.1	900.6	1,753.6	1,595.7	157.93	11.104	
20,200.0	12,069.2	18,524.0	10,536.9	72.5	139.9	-29.05	-7,685.2	899.2	1,752.3	1,592.6	159.67	10.975	
20,300.0	12,069.1	18,617.1	10,537.2	73.4	141.4	-29.00	-7,778.3	898.0	1,750.9	1,589.6	161.34	10.853	
20,400.0	12,069.0	18,703.2	10,537.0	74.3	142.8	-28.96	-7,864.4	897.2	1,750.2	1,587.3	162.97	10.740	
20,433.9	12,068.9	18,732.3	10,536.8	74.5	143.3	-28.94	-7,893.5	897.0	1,750.2	1,586.7	163.53	10.703	
20,500.0	12,068.9	18,789.8	10,536.4	75.1	144.2	-28.92	-7,950.9	897.0	1,750.4	1,585.8	164.62	10.633	
20,600.0	12,068.8	18,879.0	10,535.1	76.0	145.6	-28.89	-8,040.1	897.1	1,751.2	1,584.9	166.27	10.532	
20,700.0	12,068.7	18,971.4	10,533.4	76.8	147.1	-28.85	-8,132.6	897.3	1,752.5	1,584.6	167.93	10.436	
20,800.0	12,068.6	19,068.6	10,531.2	77.7	148.6	-28.81	-8,229.7	897.7	1,754.2	1,584.6	169.63	10.342	
20,900.0	12,068.5	19,179.0	10,529.2	78.5	150.4	-28.77	-8,340.1	898.2	1,755.6	1,584.2	171.43	10.241	
21,000.0	12,068.4	19,282.2	10,528.0	79.4	152.0	-28.75	-8,443.3	898.8	1,756.5	1,583.3	173.20	10.142	
21,100.0	12,068.3	19,378.3	10,526.8	80.2	153.6	-28.74	-8,539.4	899.8	1,757.6	1,582.7	174.94	10.047	
21,200.0	12,068.2	19,477.2	10,525.8	81.1	155.2	-28.75	-8,638.3	901.2	1,758.8	1,582.0	176.72	9.952	
21,300.0	12,068.1	19,567.2	10,524.9	81.9	156.6	-28.77	-8,728.2	903.0	1,760.2	1,581.7	178.45	9.863	
21,400.0	12,068.0	19,648.2	10,523.6	82.8	157.9	-28.79	-8,809.2	905.2	1,762.4	1,582.3	180.12	9.785	
21,500.0	12,067.9	19,771.6	10,520.6	83.7	159.9	-28.81	-8,932.5	908.4	1,765.6	1,583.5	182.14	9.694	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #4H - OWB - ACTUAL													Offset Site Error:	0.0 usft
Survey Program: 100-GYRO-NS, 9967-MWD													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
21,600.0	12,067.8	19,888.8	10,520.3	84.5	161.8	-28.85	-9,049.7	910.6	1,766.2	1,582.1	184.11	9.593		
21,700.0	12,067.7	19,979.8	10,520.1	85.4	163.3	-28.88	-9,140.7	912.4	1,767.0	1,581.1	185.88	9.506		
21,800.0	12,067.6	20,072.5	10,519.5	86.2	164.8	-28.92	-9,233.3	914.7	1,768.3	1,580.6	187.68	9.422		
21,900.0	12,067.5	20,162.3	10,518.7	87.1	166.2	-28.96	-9,323.1	917.3	1,770.0	1,580.5	189.46	9.342		
22,000.0	12,067.4	20,251.5	10,517.5	87.9	167.7	-29.01	-9,412.2	920.4	1,772.4	1,581.1	191.24	9.268		
22,100.0	12,067.3	20,340.6	10,516.0	88.8	169.1	-29.07	-9,501.3	923.9	1,775.4	1,582.4	193.04	9.197		
22,200.0	12,067.2	20,361.0	10,515.6	89.6	169.5	-29.09	-9,521.6	924.8	1,780.4	1,586.5	193.93	9.181 SF		
22,300.0	12,067.1	20,361.0	10,515.6	90.5	169.5	-29.09	-9,521.6	924.8	1,791.0	1,596.9	194.09	9.228		
22,357.7	12,067.0	20,361.0	10,515.6	91.0	169.5	-29.09	-9,521.6	924.8	1,799.5	1,605.6	193.94	9.279		

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

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COMPASS 5000.15 Build 91E

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #9H - OWB - ACTUAL													Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8586-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance										Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	3.0	3.0	-58.33	467.3	-757.4	890.0					
100.0	100.0	97.3	97.3	3.0	3.0	-58.32	467.5	-757.5	890.1	884.1	6.00	148.346		
200.0	200.0	198.2	198.2	3.0	3.0	-58.29	467.9	-757.4	890.3	884.3	6.00	148.262		
300.0	300.0	297.7	297.7	3.0	3.0	-58.25	468.6	-757.2	890.5	884.4	6.01	148.071		
400.0	400.0	397.4	397.4	3.0	3.0	-58.20	469.4	-757.0	890.7	884.7	6.03	147.774		
500.0	500.0	495.0	494.9	3.1	3.1	-58.16	470.2	-757.1	891.2	885.2	6.05	147.367		
600.0	600.0	595.4	595.3	3.1	3.1	-58.10	471.2	-757.1	891.8	885.7	6.07	146.829		
700.0	700.0	697.9	697.9	3.1	3.1	-58.08	471.7	-757.2	892.1	886.0	6.11	146.093		
800.0	800.0	802.0	802.0	3.2	3.1	-58.11	471.3	-757.4	892.0	885.9	6.14	145.344		
900.0	900.0	901.8	901.8	3.2	3.1	-58.16	470.5	-757.6	891.8	885.6	6.17	144.591		
1,000.0	1,000.0	1,001.6	1,001.5	3.2	3.1	-58.22	469.5	-757.8	891.5	885.3	6.20	143.738		
1,100.0	1,100.0	1,102.6	1,102.6	3.3	3.1	-58.28	468.5	-758.1	891.2	884.9	6.24	142.787		
1,200.0	1,200.0	1,204.4	1,204.4	3.4	3.1	-58.35	467.4	-758.2	890.7	884.4	6.28	141.745		
1,300.0	1,300.0	1,304.6	1,304.6	3.4	3.1	-58.42	466.2	-758.3	890.2	883.9	6.33	140.617		
1,400.0	1,400.0	1,404.3	1,404.2	3.5	3.1	-58.48	465.1	-758.4	889.7	883.3	6.38	139.409		
1,500.0	1,500.0	1,506.4	1,506.4	3.5	3.2	-58.55	463.9	-758.4	889.1	882.7	6.44	138.117		
1,600.0	1,600.0	1,605.9	1,605.9	3.6	3.2	-58.58	463.1	-758.2	888.5	882.0	6.50	136.740		
1,700.0	1,700.0	1,704.5	1,704.5	3.7	3.2	-58.62	462.4	-757.9	887.8	881.3	6.56	135.278		
1,800.0	1,800.0	1,806.0	1,806.0	3.8	3.3	-58.62	462.0	-757.4	887.2	880.6	6.64	133.691		
1,900.0	1,900.0	1,909.6	1,909.6	3.9	3.3	-58.59	461.9	-756.3	886.3	879.6	6.72	131.951		
2,000.0	2,000.0	2,012.0	2,011.9	3.9	3.3	-58.52	462.2	-754.8	885.1	878.3	6.80	130.147		
2,100.0	2,100.0	2,111.3	2,111.2	4.0	3.4	-58.41	463.0	-752.8	883.8	877.0	6.89	128.324		
2,160.2	2,160.2	2,160.9	2,160.7	4.1	3.4	-58.34	463.7	-752.0	883.4	876.5	6.94	127.384		
2,200.0	2,200.0	2,195.0	2,194.9	4.1	3.4	-58.29	464.4	-751.7	883.6	876.6	6.96	126.860		
2,300.0	2,300.0	2,299.4	2,299.2	4.2	3.4	-58.13	466.9	-750.9	884.2	877.2	7.05	125.488		
2,400.0	2,400.0	2,410.5	2,410.3	4.3	3.5	-58.02	467.8	-749.3	883.4	876.2	7.14	123.635		
2,500.0	2,500.0	2,500.0	2,499.8	4.4	3.5	-57.94	468.5	-748.0	882.6	875.4	7.24	121.950		
2,512.8	2,512.8	2,511.4	2,511.2	4.4	3.5	-56.84	468.7	-747.9	882.6	875.4	7.25	121.769		
2,600.0	2,600.0	2,588.4	2,588.2	4.5	3.5	-56.83	470.4	-747.8	882.6	875.2	7.32	120.619		
2,700.0	2,699.8	2,690.4	2,690.2	4.6	3.6	-56.99	473.2	-747.6	881.0	873.6	7.40	119.043		
2,750.0	2,749.7	2,741.2	2,740.9	4.6	3.6	-57.13	474.7	-747.3	879.4	871.9	7.44	118.148		
2,800.0	2,799.5	2,798.5	2,798.2	4.7	3.6	-57.30	476.3	-746.8	877.4	869.9	7.49	117.165		
2,900.0	2,899.1	2,895.6	2,895.2	4.8	3.7	-57.70	477.5	-746.5	873.1	865.5	7.57	115.316		
3,000.0	2,998.7	2,988.8	2,988.5	4.9	3.7	-58.15	477.9	-747.2	869.3	861.6	7.65	113.671		
3,100.0	3,098.4	3,089.4	3,089.1	5.0	3.7	-58.61	479.0	-748.0	866.0	858.3	7.73	112.017		
3,200.0	3,198.0	3,194.9	3,194.5	5.1	3.8	-59.05	480.4	-748.1	862.2	854.4	7.82	110.207		
3,300.0	3,297.6	3,296.1	3,295.8	5.2	3.9	-59.46	481.9	-747.6	858.1	850.2	7.92	108.370		
3,400.0	3,397.2	3,397.9	3,397.5	5.3	3.9	-59.82	483.8	-746.6	853.7	845.7	8.02	106.493		
3,500.0	3,496.8	3,483.9	3,483.5	5.4	4.0	-60.19	485.0	-746.5	850.0	841.9	8.11	104.857		
3,600.0	3,596.4	3,583.4	3,583.0	5.5	4.0	-60.74	485.4	-748.4	847.5	839.3	8.20	103.363		
3,700.0	3,696.1	3,691.7	3,691.2	5.6	4.1	-61.28	486.2	-749.4	844.4	836.1	8.30	101.720		
3,800.0	3,795.7	3,807.7	3,807.2	5.7	4.1	-61.90	485.9	-749.2	840.0	831.6	8.41	99.929		
3,900.0	3,895.3	3,912.2	3,911.8	5.8	4.2	-62.45	485.0	-747.6	834.1	825.6	8.51	98.038		
4,000.0	3,994.9	4,000.0	3,999.6	5.9	4.2	-62.91	484.6	-746.3	828.7	820.1	8.61	96.303		
4,100.0	4,094.5	4,080.2	4,079.7	6.0	4.2	-63.39	484.3	-747.4	825.7	817.0	8.69	94.978		
4,200.0	4,194.2	4,188.7	4,188.2	6.2	4.3	-64.07	483.8	-749.5	823.5	814.7	8.79	93.634		
4,300.0	4,293.8	4,291.9	4,291.4	6.3	4.3	-64.74	482.7	-750.5	820.1	811.2	8.90	92.197		
4,400.0	4,393.4	4,392.7	4,392.2	6.4	4.3	-65.45	480.7	-751.6	816.6	807.6	8.99	90.801		
4,500.0	4,493.0	4,489.8	4,489.2	6.5	4.3	-66.15	478.9	-752.9	813.5	804.4	9.09	89.480		
4,600.0	4,592.6	4,588.9	4,588.4	6.6	4.4	-66.87	477.0	-754.2	810.5	801.3	9.19	88.188		
4,700.0	4,692.3	4,683.6	4,683.1	6.7	4.4	-67.54	475.5	-755.7	808.0	798.7	9.29	86.984		

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #9H - OWB - ACTUAL												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8586-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,800.0	4,791.9	4,782.6	4,782.0	6.8	4.5	-68.24	474.3	-757.5	806.0	796.6	9.39	85.814	
4,900.0	4,891.5	4,881.3	4,880.7	7.0	4.5	-68.97	472.6	-759.5	804.1	794.6	9.49	84.686	
5,000.0	4,991.1	4,980.0	4,979.3	7.1	4.6	-69.73	470.6	-761.7	802.5	792.9	9.60	83.606	
5,100.0	5,090.7	5,079.3	5,078.5	7.2	4.6	-70.51	468.5	-764.1	801.1	791.4	9.70	82.558	
5,200.0	5,190.4	5,183.0	5,182.2	7.3	4.7	-71.25	467.3	-766.1	799.7	789.8	9.82	81.470	
5,300.0	5,290.0	5,281.8	5,281.0	7.4	4.7	-71.78	468.4	-767.0	798.1	788.1	9.93	80.332	
5,400.0	5,389.6	5,382.7	5,381.9	7.5	4.8	-72.30	469.7	-767.7	796.5	786.4	10.06	79.200	
5,500.0	5,489.2	5,480.2	5,479.4	7.7	4.9	-72.83	470.8	-768.6	795.0	784.8	10.18	78.098	
5,600.0	5,588.8	5,579.6	5,578.7	7.8	4.9	-73.38	471.8	-769.7	793.9	783.6	10.31	77.022	
5,700.0	5,688.5	5,677.5	5,676.6	7.9	5.0	-73.93	472.8	-770.9	792.8	782.4	10.44	75.965	
5,800.0	5,788.1	5,775.0	5,774.2	8.0	5.1	-74.47	473.7	-772.2	792.0	781.5	10.57	74.941	
5,900.0	5,887.7	5,873.4	5,872.5	8.1	5.1	-75.02	474.9	-773.8	791.6	780.9	10.70	73.948	
6,000.0	5,987.3	5,973.8	5,972.9	8.3	5.2	-75.57	476.1	-775.5	791.3	780.5	10.84	72.973	
6,100.0	6,086.9	6,080.3	6,079.4	8.4	5.3	-76.16	477.5	-777.1	790.9	779.9	10.99	71.976	
6,200.0	6,186.6	6,185.6	6,184.7	8.5	5.4	-76.85	477.0	-777.7	789.3	778.2	11.12	70.957	
6,300.0	6,286.2	6,283.2	6,282.3	8.6	5.4	-77.50	476.4	-778.2	787.8	776.5	11.25	69.997	
6,400.0	6,385.8	6,380.7	6,379.8	8.7	5.5	-78.16	475.8	-778.9	786.6	775.2	11.39	69.056	
6,500.0	6,485.4	6,477.9	6,477.0	8.9	5.6	-78.83	475.1	-780.1	785.9	774.4	11.53	68.151	
6,600.0	6,585.0	6,577.9	6,576.9	9.0	5.7	-79.53	474.3	-781.4	785.4	773.7	11.68	67.259	
6,700.0	6,684.7	6,676.6	6,675.6	9.1	5.7	-80.21	473.6	-782.8	785.1	773.3	11.83	66.388	
6,800.0	6,784.3	6,776.0	6,775.0	9.2	5.8	-80.92	472.6	-784.2	785.0	773.0	11.98	65.544	
6,851.6	6,835.7	6,826.8	6,825.8	9.3	5.8	-81.28	472.1	-784.9	784.9	772.9	12.05	65.117	
6,900.0	6,883.9	6,874.7	6,873.7	9.3	5.9	-81.63	471.6	-785.7	785.0	772.8	12.13	64.722	
7,000.0	6,983.5	6,974.7	6,973.7	9.5	6.0	-82.32	470.9	-787.0	785.0	772.7	12.29	63.888	
7,100.0	7,083.1	7,072.1	7,071.1	9.6	6.1	-82.99	470.3	-788.5	785.3	772.9	12.45	63.076	
7,200.0	7,182.7	7,169.8	7,168.8	9.7	6.1	-83.66	469.7	-790.2	786.0	773.4	12.62	62.297	
7,300.0	7,282.4	7,283.8	7,282.8	9.8	6.2	-84.47	468.6	-791.3	786.0	773.2	12.78	61.489	
7,400.0	7,382.0	7,384.8	7,383.7	10.0	6.3	-85.20	467.3	-791.3	785.0	772.1	12.92	60.769	
7,500.0	7,481.6	7,484.1	7,483.1	10.1	6.3	-85.93	466.0	-791.2	784.2	771.2	13.06	60.064	
7,600.0	7,581.2	7,585.0	7,583.9	10.2	6.4	-86.68	464.5	-791.1	783.5	770.3	13.20	59.367	
7,700.0	7,680.8	7,686.6	7,685.5	10.3	6.5	-87.43	463.1	-790.7	782.6	769.3	13.34	58.683	
7,800.0	7,780.5	7,786.6	7,785.5	10.5	6.5	-88.17	461.6	-790.2	781.7	768.2	13.47	58.017	
7,900.0	7,880.1	7,887.5	7,886.4	10.6	6.6	-88.93	460.0	-789.5	780.8	767.2	13.62	57.351	
8,000.0	7,979.7	7,988.6	7,987.5	10.7	6.6	-89.70	458.3	-788.7	779.9	766.2	13.76	56.687	
8,100.0	8,079.3	8,088.5	8,087.4	10.8	6.7	-90.49	456.4	-787.8	779.0	765.1	13.90	56.028	
8,200.0	8,178.9	8,187.9	8,186.7	10.9	6.7	-91.28	454.3	-786.7	778.2	764.1	14.05	55.375	
8,300.0	8,278.6	8,287.1	8,285.9	11.1	6.8	-92.07	452.2	-785.7	777.5	763.3	14.21	54.731	
8,400.0	8,378.2	8,386.8	8,385.6	11.2	6.9	-92.89	449.8	-784.7	777.0	762.7	14.36	54.094	
8,500.0	8,477.8	8,489.0	8,487.7	11.3	6.9	-93.72	447.6	-783.5	776.5	762.0	14.53	53.452	
8,600.0	8,577.4	8,586.0	8,584.7	11.4	7.0	-94.49	445.6	-782.1	775.9	761.2	14.67	52.876	
8,601.5	8,578.9	8,586.0	8,584.7	11.4	7.0	-94.49	445.6	-782.1	775.9	761.2	14.68	52.869 CC	
8,700.0	8,677.0	8,652.4	8,650.9	11.6	8.9	-95.21	441.5	-782.3	777.7	761.1	16.61	46.836 ES	
8,800.0	8,776.7	8,705.8	8,703.8	11.7	10.3	-96.08	434.0	-784.4	784.6	766.4	18.22	43.067	
8,900.0	8,876.3	8,754.0	8,750.3	11.8	10.7	-97.14	422.7	-789.3	798.9	779.8	19.03	41.986	
9,000.0	8,975.9	8,784.0	8,778.7	11.9	10.8	-97.89	414.1	-793.7	820.0	800.2	19.88	41.245	
9,100.0	9,075.5	8,827.6	8,819.0	12.1	10.9	-99.08	399.3	-801.9	848.1	827.4	20.78	40.813	
9,200.0	9,175.1	8,878.0	8,863.6	12.2	11.0	-100.57	379.3	-813.9	883.0	861.4	21.68	40.737	
9,300.0	9,274.8	8,909.0	8,890.3	12.3	11.0	-101.54	365.7	-821.8	923.1	900.4	22.74	40.595 SF	
9,400.0	9,374.4	8,942.0	8,917.8	12.5	11.1	-102.59	350.0	-831.1	969.0	945.2	23.79	40.731	
9,500.0	9,474.0	8,982.7	8,950.2	12.6	11.2	-103.94	328.8	-843.4	1,019.9	995.1	24.76	41.197	
9,600.0	9,573.6	9,006.0	8,968.0	12.7	11.2	-104.75	315.6	-850.7	1,075.7	1,049.8	25.83	41.642	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #9H - OWB - ACTUAL												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8586-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,642.4	9,615.8	9,022.2	8,979.9	12.8	11.3	-105.32	306.0	-855.9	1,100.6	1,074.4	26.23	41.966	
9,700.0	9,673.3	9,037.0	8,990.5	12.8	11.3	-106.28	296.8	-860.8	1,135.8	1,109.0	26.80	42.384	
9,800.0	9,773.0	9,067.0	9,010.9	13.0	11.4	-108.12	277.3	-871.0	1,199.7	1,172.0	27.71	43.295	
9,900.0	9,872.9	9,067.0	9,010.9	13.1	11.4	-108.98	277.3	-871.0	1,266.9	1,238.2	28.73	44.093	
10,000.0	9,972.8	9,114.0	9,040.2	13.2	11.5	-111.46	244.5	-887.6	1,336.9	1,307.4	29.52	45.286	
10,100.0	10,072.8	9,114.0	9,040.2	13.3	11.5	-112.42	244.5	-887.6	1,408.9	1,378.5	30.41	46.326	
10,142.4	10,115.2	9,114.0	9,040.2	13.4	11.5	-113.94	244.5	-887.6	1,440.3	1,409.5	30.77	46.807	
10,200.0	10,172.8	9,139.9	9,055.1	13.5	11.6	-114.73	225.6	-897.1	1,483.2	1,452.0	31.18	47.569	
10,300.0	10,272.8	9,162.0	9,067.3	13.6	11.6	-115.39	209.2	-905.5	1,559.6	1,527.7	31.92	48.864	
10,400.0	10,372.8	9,162.0	9,067.3	13.7	11.6	-115.39	209.2	-905.5	1,638.2	1,605.5	32.66	50.165	
10,500.0	10,472.8	9,188.6	9,081.2	13.8	11.7	-116.19	188.9	-915.7	1,718.2	1,684.9	33.33	51.550	
10,600.0	10,572.8	9,209.0	9,091.0	14.0	11.7	-116.80	172.9	-923.6	1,800.1	1,766.1	33.98	52.975	
10,700.0	10,672.8	9,209.0	9,091.0	14.1	11.7	-116.80	172.9	-923.6	1,883.3	1,848.7	34.61	54.412	
10,800.0	10,772.8	9,228.5	9,099.9	14.2	11.8	-117.38	157.2	-931.1	1,967.7	1,932.5	35.22	55.863	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=26' @ 3576.5usft (MCVAY 8)

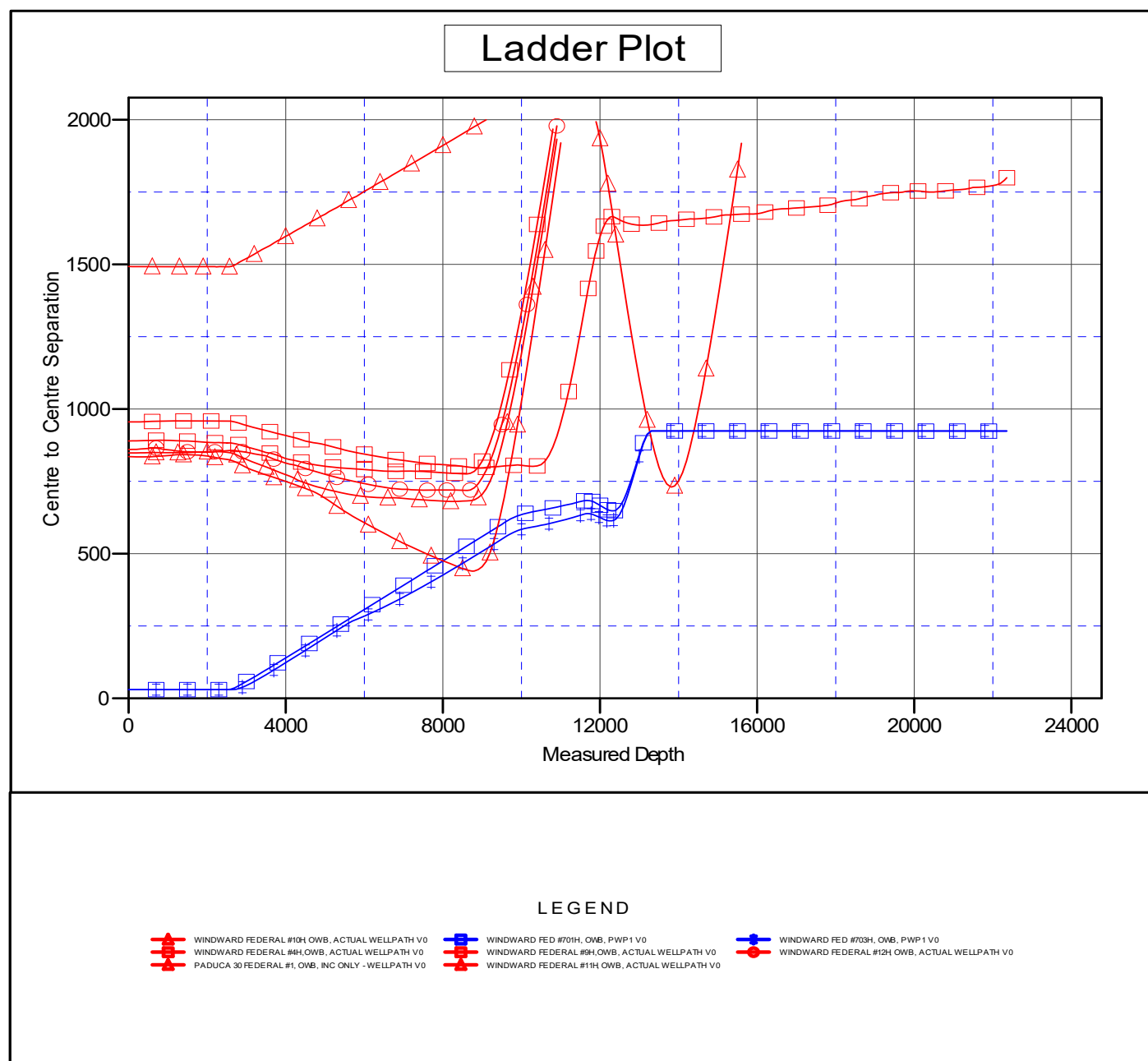
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: WINDWARD FED #702H

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

Grid Convergence at Surface is: 0.33°



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

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COMPASS 5000.15 Build 91E

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=26' @ 3576.5usft (MCVAY 8)

Offset Depths are relative to Offset Datum

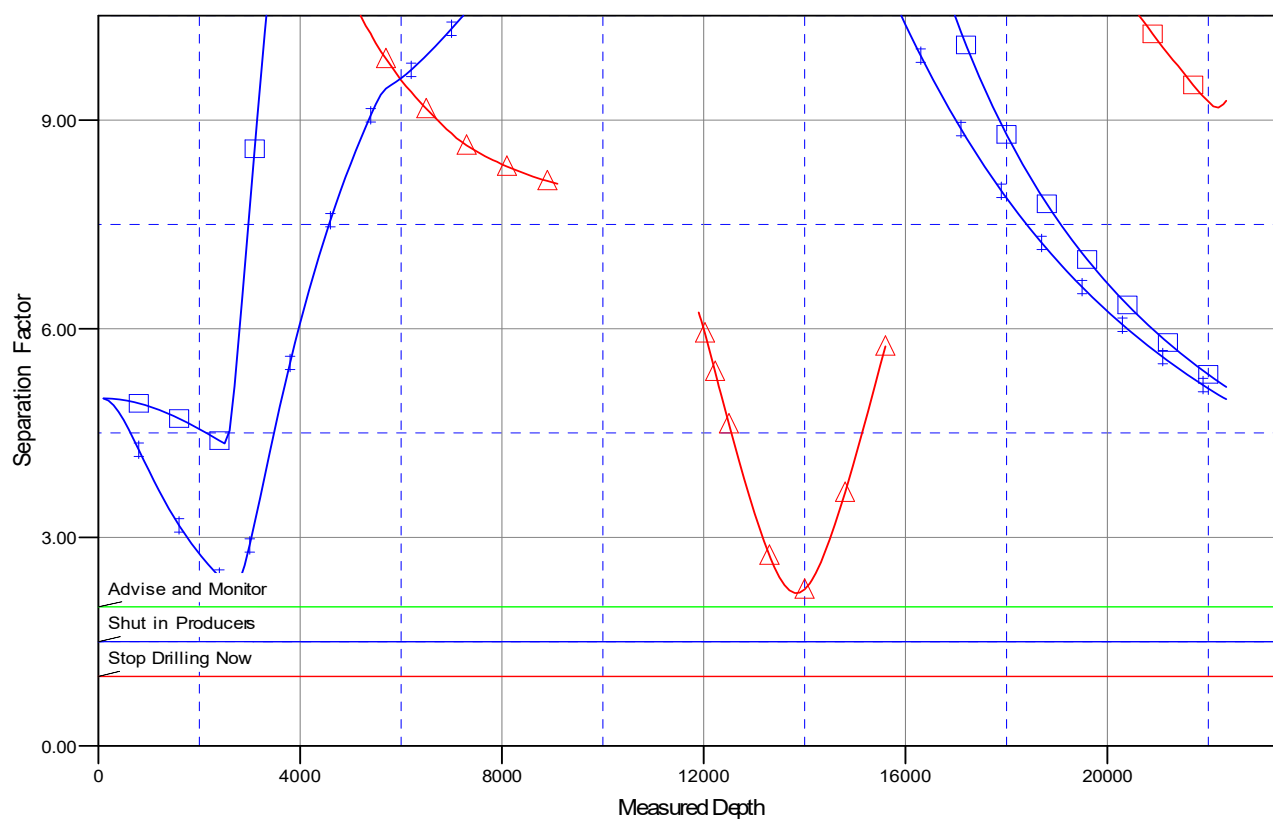
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: WINDWARD FED #702H

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

Grid Convergence at Surface is: 0.33°

Separation Factor Plot



LEGEND

	WINDWARD FEDERAL #10H OWB, ACTUAL WELLPATH V0		WINDWARD FED #701H, OWB, PWP1 V0		WINDWARD FED #703H, OWB, PWP1 V0
	WINDWARD FEDERAL #8H OWB, ACTUAL WELLPATH V0		WINDWARD FEDERAL #8H OWB, ACTUAL WELLPATH V0		WINDWARD FEDERAL #12H OWB, ACTUAL WELLPATH V0
	PADUCA 30 FEDERAL #1, OWB, INC ONLY - WELLPATH V0		WINDWARD FEDERAL #11H OWB, ACTUAL WELLPATH V0		

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

DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E)

WINDWARD FEDERAL PROJECT (BULLDOG 2432)

WINDWARD FED #702H

OWB

Plan: PWP1

Standard Survey Report

11 December, 2020

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Well:	WINDWARD FED #702H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

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

Well	WINDWARD FED #702H			
Well Position	+N/-S	0.0 usft	Northing:	434,721.10 usfi
	+E/-W	0.0 usft	Easting:	693,201.80 usfi
Position Uncertainty		3.0 usft	Wellhead Elevation:	usfi
			Latitude:	32° 11' 37.043 N
			Longitude:	103° 42' 31.610 W
			Ground Level:	3,550.5 usft

Wellbore	OWB
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	10/27/2020	6.68	59.87	47,526.69367301

Design	PWP1
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Audit Notes:	
Version:	Phase: PLAN Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	179.63

Survey Tool Program		Date	12/11/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,557.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
11,557.0	22,357.7	PWP1 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction	

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00

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Well:	WINDWARD FED #702H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
2,600.0	2.00	358.91	2,600.0	1.7	0.0	-1.7	2.00	2.00	0.00
2,700.0	4.00	358.91	2,699.8	7.0	-0.1	-7.0	2.00	2.00	0.00
2,750.0	5.00	358.91	2,749.7	10.9	-0.2	-10.9	2.00	2.00	0.00
Start 6892.4 hold at 2750.0 MD									
2,800.0	5.00	358.91	2,799.5	15.3	-0.3	-15.3	0.00	0.00	0.00
2,900.0	5.00	358.91	2,899.1	24.0	-0.5	-24.0	0.00	0.00	0.00
3,000.0	5.00	358.91	2,998.7	32.7	-0.6	-32.7	0.00	0.00	0.00
3,100.0	5.00	358.91	3,098.4	41.4	-0.8	-41.4	0.00	0.00	0.00
3,200.0	5.00	358.91	3,198.0	50.1	-0.9	-50.1	0.00	0.00	0.00
3,300.0	5.00	358.91	3,297.6	58.8	-1.1	-58.8	0.00	0.00	0.00
3,400.0	5.00	358.91	3,397.2	67.5	-1.3	-67.5	0.00	0.00	0.00
3,500.0	5.00	358.91	3,496.8	76.3	-1.4	-76.3	0.00	0.00	0.00
3,600.0	5.00	358.91	3,596.4	85.0	-1.6	-85.0	0.00	0.00	0.00
3,700.0	5.00	358.91	3,696.1	93.7	-1.8	-93.7	0.00	0.00	0.00
3,800.0	5.00	358.91	3,795.7	102.4	-1.9	-102.4	0.00	0.00	0.00
3,900.0	5.00	358.91	3,895.3	111.1	-2.1	-111.1	0.00	0.00	0.00
4,000.0	5.00	358.91	3,994.9	119.8	-2.3	-119.8	0.00	0.00	0.00
4,100.0	5.00	358.91	4,094.5	128.5	-2.4	-128.6	0.00	0.00	0.00
4,200.0	5.00	358.91	4,194.2	137.3	-2.6	-137.3	0.00	0.00	0.00
4,300.0	5.00	358.91	4,293.8	146.0	-2.8	-146.0	0.00	0.00	0.00
4,400.0	5.00	358.91	4,393.4	154.7	-2.9	-154.7	0.00	0.00	0.00
4,500.0	5.00	358.91	4,493.0	163.4	-3.1	-163.4	0.00	0.00	0.00
4,600.0	5.00	358.91	4,592.6	172.1	-3.3	-172.1	0.00	0.00	0.00
4,700.0	5.00	358.91	4,692.3	180.8	-3.4	-180.8	0.00	0.00	0.00
4,800.0	5.00	358.91	4,791.9	189.5	-3.6	-189.6	0.00	0.00	0.00
4,900.0	5.00	358.91	4,891.5	198.3	-3.8	-198.3	0.00	0.00	0.00
5,000.0	5.00	358.91	4,991.1	207.0	-3.9	-207.0	0.00	0.00	0.00
5,100.0	5.00	358.91	5,090.7	215.7	-4.1	-215.7	0.00	0.00	0.00
5,200.0	5.00	358.91	5,190.4	224.4	-4.3	-224.4	0.00	0.00	0.00
5,300.0	5.00	358.91	5,290.0	233.1	-4.4	-233.1	0.00	0.00	0.00

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Design:	PWP1	Database:	edm

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)
5,400.0	5.00	358.91	5,389.6	241.8	-4.6	-241.8	0.00	0.00	0.00
5,500.0	5.00	358.91	5,489.2	250.5	-4.7	-250.6	0.00	0.00	0.00
5,600.0	5.00	358.91	5,588.8	259.2	-4.9	-259.3	0.00	0.00	0.00
5,700.0	5.00	358.91	5,688.5	268.0	-5.1	-268.0	0.00	0.00	0.00
5,800.0	5.00	358.91	5,788.1	276.7	-5.2	-276.7	0.00	0.00	0.00
5,900.0	5.00	358.91	5,887.7	285.4	-5.4	-285.4	0.00	0.00	0.00
6,000.0	5.00	358.91	5,987.3	294.1	-5.6	-294.1	0.00	0.00	0.00
6,100.0	5.00	358.91	6,086.9	302.8	-5.7	-302.8	0.00	0.00	0.00
6,200.0	5.00	358.91	6,186.6	311.5	-5.9	-311.6	0.00	0.00	0.00
6,300.0	5.00	358.91	6,286.2	320.2	-6.1	-320.3	0.00	0.00	0.00
6,400.0	5.00	358.91	6,385.8	329.0	-6.2	-329.0	0.00	0.00	0.00
6,500.0	5.00	358.91	6,485.4	337.7	-6.4	-337.7	0.00	0.00	0.00
6,600.0	5.00	358.91	6,585.0	346.4	-6.6	-346.4	0.00	0.00	0.00
6,700.0	5.00	358.91	6,684.7	355.1	-6.7	-355.1	0.00	0.00	0.00
6,800.0	5.00	358.91	6,784.3	363.8	-6.9	-363.9	0.00	0.00	0.00
6,900.0	5.00	358.91	6,883.9	372.5	-7.1	-372.6	0.00	0.00	0.00
7,000.0	5.00	358.91	6,983.5	381.2	-7.2	-381.3	0.00	0.00	0.00
7,100.0	5.00	358.91	7,083.1	390.0	-7.4	-390.0	0.00	0.00	0.00
7,200.0	5.00	358.91	7,182.7	398.7	-7.6	-398.7	0.00	0.00	0.00
7,300.0	5.00	358.91	7,282.4	407.4	-7.7	-407.4	0.00	0.00	0.00
7,400.0	5.00	358.91	7,382.0	416.1	-7.9	-416.1	0.00	0.00	0.00
7,500.0	5.00	358.91	7,481.6	424.8	-8.0	-424.9	0.00	0.00	0.00
7,600.0	5.00	358.91	7,581.2	433.5	-8.2	-433.6	0.00	0.00	0.00
7,700.0	5.00	358.91	7,680.8	442.2	-8.4	-442.3	0.00	0.00	0.00
7,800.0	5.00	358.91	7,780.5	451.0	-8.5	-451.0	0.00	0.00	0.00
7,900.0	5.00	358.91	7,880.1	459.7	-8.7	-459.7	0.00	0.00	0.00
8,000.0	5.00	358.91	7,979.7	468.4	-8.9	-468.4	0.00	0.00	0.00
8,100.0	5.00	358.91	8,079.3	477.1	-9.0	-477.1	0.00	0.00	0.00
8,200.0	5.00	358.91	8,178.9	485.8	-9.2	-485.9	0.00	0.00	0.00
8,300.0	5.00	358.91	8,278.6	494.5	-9.4	-494.6	0.00	0.00	0.00
8,400.0	5.00	358.91	8,378.2	503.2	-9.5	-503.3	0.00	0.00	0.00
8,500.0	5.00	358.91	8,477.8	512.0	-9.7	-512.0	0.00	0.00	0.00
8,600.0	5.00	358.91	8,577.4	520.7	-9.9	-520.7	0.00	0.00	0.00
8,700.0	5.00	358.91	8,677.0	529.4	-10.0	-529.4	0.00	0.00	0.00
8,800.0	5.00	358.91	8,776.7	538.1	-10.2	-538.2	0.00	0.00	0.00
8,900.0	5.00	358.91	8,876.3	546.8	-10.4	-546.9	0.00	0.00	0.00
9,000.0	5.00	358.91	8,975.9	555.5	-10.5	-555.6	0.00	0.00	0.00
9,100.0	5.00	358.91	9,075.5	564.2	-10.7	-564.3	0.00	0.00	0.00
9,200.0	5.00	358.91	9,175.1	573.0	-10.9	-573.0	0.00	0.00	0.00
9,300.0	5.00	358.91	9,274.8	581.7	-11.0	-581.7	0.00	0.00	0.00
9,400.0	5.00	358.91	9,374.4	590.4	-11.2	-590.4	0.00	0.00	0.00
9,500.0	5.00	358.91	9,474.0	599.1	-11.4	-599.2	0.00	0.00	0.00

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Well:	WINDWARD FED #702H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,600.0	5.00	358.91	9,573.6	607.8	-11.5	-607.9	0.00	0.00	0.00
9,642.4	5.00	358.91	9,615.8	611.5	-11.6	-611.6	0.00	0.00	0.00
Start Drop -1.00									
9,700.0	4.42	358.91	9,673.3	616.2	-11.7	-616.3	1.00	-1.00	0.00
9,800.0	3.42	358.91	9,773.0	623.1	-11.8	-623.1	1.00	-1.00	0.00
9,900.0	2.42	358.91	9,872.9	628.2	-11.9	-628.2	1.00	-1.00	0.00
10,000.0	1.42	358.91	9,972.8	631.5	-12.0	-631.6	1.00	-1.00	0.00
10,100.0	0.42	358.91	10,072.8	633.1	-12.0	-633.2	1.00	-1.00	0.00
10,142.4	0.00	0.00	10,115.2	633.3	-12.0	-633.4	1.00	-1.00	0.00
Start 1484.3 hold at 10142.4 MD									
10,200.0	0.00	0.00	10,172.8	633.3	-12.0	-633.4	0.00	0.00	0.00
10,300.0	0.00	0.00	10,272.8	633.3	-12.0	-633.4	0.00	0.00	0.00
10,400.0	0.00	0.00	10,372.8	633.3	-12.0	-633.4	0.00	0.00	0.00
10,500.0	0.00	0.00	10,472.8	633.3	-12.0	-633.4	0.00	0.00	0.00
10,600.0	0.00	0.00	10,572.8	633.3	-12.0	-633.4	0.00	0.00	0.00
10,700.0	0.00	0.00	10,672.8	633.3	-12.0	-633.4	0.00	0.00	0.00
10,800.0	0.00	0.00	10,772.8	633.3	-12.0	-633.4	0.00	0.00	0.00
10,900.0	0.00	0.00	10,872.8	633.3	-12.0	-633.4	0.00	0.00	0.00
11,000.0	0.00	0.00	10,972.8	633.3	-12.0	-633.4	0.00	0.00	0.00
11,100.0	0.00	0.00	11,072.8	633.3	-12.0	-633.4	0.00	0.00	0.00
11,200.0	0.00	0.00	11,172.8	633.3	-12.0	-633.4	0.00	0.00	0.00
11,300.0	0.00	0.00	11,272.8	633.3	-12.0	-633.4	0.00	0.00	0.00
11,400.0	0.00	0.00	11,372.8	633.3	-12.0	-633.4	0.00	0.00	0.00
11,500.0	0.00	0.00	11,472.8	633.3	-12.0	-633.4	0.00	0.00	0.00
11,600.0	0.00	0.00	11,572.8	633.3	-12.0	-633.4	0.00	0.00	0.00
11,626.7	0.00	0.00	11,599.5	633.3	-12.0	-633.4	0.00	0.00	0.00
Start DLS 12.00 TFO 179.58									
11,700.0	8.80	179.58	11,672.5	627.7	-12.0	-627.7	12.00	12.00	0.00
11,800.0	20.80	179.58	11,769.0	602.2	-11.8	-602.3	12.00	12.00	0.00
11,900.0	32.80	179.58	11,858.1	557.2	-11.4	-557.2	12.00	12.00	0.00
12,000.0	44.80	179.58	11,935.9	494.6	-11.0	-494.7	12.00	12.00	0.00
12,100.0	56.80	179.58	11,999.0	417.3	-10.4	-417.4	12.00	12.00	0.00
12,200.0	68.80	179.58	12,044.6	328.5	-9.8	-328.6	12.00	12.00	0.00
12,300.0	80.80	179.58	12,070.8	232.2	-9.1	-232.2	12.00	12.00	0.00
12,377.2	90.06	179.58	12,077.0	155.4	-8.5	-155.4	12.00	12.00	0.00
Start 9980.5 hold at 12377.2 MD									
12,400.0	90.06	179.58	12,076.9	132.5	-8.4	-132.6	0.00	0.00	0.00
12,500.0	90.06	179.58	12,076.8	32.5	-7.6	-32.6	0.00	0.00	0.00
12,600.0	90.06	179.58	12,076.7	-67.5	-6.9	67.4	0.00	0.00	0.00
12,700.0	90.06	179.58	12,076.6	-167.5	-6.2	167.4	0.00	0.00	0.00
12,800.0	90.06	179.58	12,076.5	-267.5	-5.5	267.4	0.00	0.00	0.00
12,900.0	90.06	179.58	12,076.4	-367.5	-4.7	367.4	0.00	0.00	0.00
13,000.0	90.06	179.58	12,076.3	-467.5	-4.0	467.4	0.00	0.00	0.00

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Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
13,100.0	90.06	179.58	12,076.2	-567.5	-3.3	567.4	0.00	0.00	0.00	
13,200.0	90.06	179.58	12,076.1	-667.5	-2.5	667.4	0.00	0.00	0.00	
13,300.0	90.06	179.58	12,076.0	-767.4	-1.8	767.4	0.00	0.00	0.00	
13,400.0	90.06	179.58	12,075.9	-867.4	-1.1	867.4	0.00	0.00	0.00	
13,500.0	90.06	179.58	12,075.8	-967.4	-0.4	967.4	0.00	0.00	0.00	
13,600.0	90.06	179.58	12,075.7	-1,067.4	0.4	1,067.4	0.00	0.00	0.00	
13,700.0	90.06	179.58	12,075.6	-1,167.4	1.1	1,167.4	0.00	0.00	0.00	
13,800.0	90.06	179.58	12,075.5	-1,267.4	1.8	1,267.4	0.00	0.00	0.00	
13,900.0	90.06	179.58	12,075.4	-1,367.4	2.5	1,367.4	0.00	0.00	0.00	
14,000.0	90.06	179.58	12,075.3	-1,467.4	3.3	1,467.4	0.00	0.00	0.00	
14,100.0	90.06	179.58	12,075.2	-1,567.4	4.0	1,567.4	0.00	0.00	0.00	
14,200.0	90.06	179.58	12,075.1	-1,667.4	4.7	1,667.4	0.00	0.00	0.00	
14,300.0	90.06	179.58	12,075.0	-1,767.4	5.4	1,767.4	0.00	0.00	0.00	
14,400.0	90.06	179.58	12,074.9	-1,867.4	6.2	1,867.4	0.00	0.00	0.00	
14,500.0	90.06	179.58	12,074.8	-1,967.4	6.9	1,967.4	0.00	0.00	0.00	
14,600.0	90.06	179.58	12,074.7	-2,067.4	7.6	2,067.4	0.00	0.00	0.00	
14,700.0	90.06	179.58	12,074.6	-2,167.4	8.4	2,167.4	0.00	0.00	0.00	
14,800.0	90.06	179.58	12,074.5	-2,267.4	9.1	2,267.4	0.00	0.00	0.00	
14,900.0	90.06	179.58	12,074.4	-2,367.4	9.8	2,367.4	0.00	0.00	0.00	
15,000.0	90.06	179.58	12,074.3	-2,467.4	10.5	2,467.4	0.00	0.00	0.00	
15,100.0	90.06	179.58	12,074.2	-2,567.4	11.3	2,567.4	0.00	0.00	0.00	
15,200.0	90.06	179.58	12,074.1	-2,667.4	12.0	2,667.4	0.00	0.00	0.00	
15,300.0	90.06	179.58	12,074.0	-2,767.4	12.7	2,767.4	0.00	0.00	0.00	
15,400.0	90.06	179.58	12,073.9	-2,867.4	13.4	2,867.4	0.00	0.00	0.00	
15,500.0	90.06	179.58	12,073.8	-2,967.4	14.2	2,967.4	0.00	0.00	0.00	
15,600.0	90.06	179.58	12,073.7	-3,067.4	14.9	3,067.4	0.00	0.00	0.00	
15,700.0	90.06	179.58	12,073.6	-3,167.4	15.6	3,167.4	0.00	0.00	0.00	
15,800.0	90.06	179.58	12,073.5	-3,267.4	16.3	3,267.4	0.00	0.00	0.00	
15,900.0	90.06	179.58	12,073.4	-3,367.4	17.1	3,367.4	0.00	0.00	0.00	
16,000.0	90.06	179.58	12,073.3	-3,467.4	17.8	3,467.4	0.00	0.00	0.00	
16,100.0	90.06	179.58	12,073.2	-3,567.4	18.5	3,567.4	0.00	0.00	0.00	
16,200.0	90.06	179.58	12,073.1	-3,667.4	19.3	3,667.4	0.00	0.00	0.00	
16,300.0	90.06	179.58	12,073.0	-3,767.4	20.0	3,767.4	0.00	0.00	0.00	
16,400.0	90.06	179.58	12,072.9	-3,867.4	20.7	3,867.4	0.00	0.00	0.00	
16,500.0	90.06	179.58	12,072.8	-3,967.4	21.4	3,967.4	0.00	0.00	0.00	
16,600.0	90.06	179.58	12,072.7	-4,067.4	22.2	4,067.4	0.00	0.00	0.00	
16,700.0	90.06	179.58	12,072.6	-4,167.4	22.9	4,167.4	0.00	0.00	0.00	
16,800.0	90.06	179.58	12,072.5	-4,267.4	23.6	4,267.4	0.00	0.00	0.00	
16,900.0	90.06	179.58	12,072.4	-4,367.4	24.3	4,367.4	0.00	0.00	0.00	
17,000.0	90.06	179.58	12,072.3	-4,467.3	25.1	4,467.4	0.00	0.00	0.00	
17,100.0	90.06	179.58	12,072.2	-4,567.3	25.8	4,567.4	0.00	0.00	0.00	
17,200.0	90.06	179.58	12,072.1	-4,667.3	26.5	4,667.4	0.00	0.00	0.00	
17,300.0	90.06	179.58	12,072.0	-4,767.3	27.2	4,767.4	0.00	0.00	0.00	

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Well:	WINDWARD FED #702H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
17,400.0	90.06	179.58	12,071.9	-4,867.3	28.0	4,867.4	0.00	0.00	0.00	
17,500.0	90.06	179.58	12,071.8	-4,967.3	28.7	4,967.4	0.00	0.00	0.00	
17,600.0	90.06	179.58	12,071.7	-5,067.3	29.4	5,067.4	0.00	0.00	0.00	
17,700.0	90.06	179.58	12,071.7	-5,167.3	30.2	5,167.4	0.00	0.00	0.00	
17,800.0	90.06	179.58	12,071.6	-5,267.3	30.9	5,267.4	0.00	0.00	0.00	
17,900.0	90.06	179.58	12,071.5	-5,367.3	31.6	5,367.4	0.00	0.00	0.00	
18,000.0	90.06	179.58	12,071.4	-5,467.3	32.3	5,467.4	0.00	0.00	0.00	
18,100.0	90.06	179.58	12,071.3	-5,567.3	33.1	5,567.4	0.00	0.00	0.00	
18,200.0	90.06	179.58	12,071.2	-5,667.3	33.8	5,667.4	0.00	0.00	0.00	
18,300.0	90.06	179.58	12,071.1	-5,767.3	34.5	5,767.4	0.00	0.00	0.00	
18,400.0	90.06	179.58	12,071.0	-5,867.3	35.2	5,867.4	0.00	0.00	0.00	
18,500.0	90.06	179.58	12,070.9	-5,967.3	36.0	5,967.4	0.00	0.00	0.00	
18,600.0	90.06	179.58	12,070.8	-6,067.3	36.7	6,067.4	0.00	0.00	0.00	
18,700.0	90.06	179.58	12,070.7	-6,167.3	37.4	6,167.4	0.00	0.00	0.00	
18,800.0	90.06	179.58	12,070.6	-6,267.3	38.1	6,267.4	0.00	0.00	0.00	
18,900.0	90.06	179.58	12,070.5	-6,367.3	38.9	6,367.4	0.00	0.00	0.00	
19,000.0	90.06	179.58	12,070.4	-6,467.3	39.6	6,467.4	0.00	0.00	0.00	
19,100.0	90.06	179.58	12,070.3	-6,567.3	40.3	6,567.4	0.00	0.00	0.00	
19,200.0	90.06	179.58	12,070.2	-6,667.3	41.1	6,667.4	0.00	0.00	0.00	
19,300.0	90.06	179.58	12,070.1	-6,767.3	41.8	6,767.4	0.00	0.00	0.00	
19,400.0	90.06	179.58	12,070.0	-6,867.3	42.5	6,867.4	0.00	0.00	0.00	
19,500.0	90.06	179.58	12,069.9	-6,967.3	43.2	6,967.4	0.00	0.00	0.00	
19,600.0	90.06	179.58	12,069.8	-7,067.3	44.0	7,067.4	0.00	0.00	0.00	
19,700.0	90.06	179.58	12,069.7	-7,167.3	44.7	7,167.4	0.00	0.00	0.00	
19,800.0	90.06	179.58	12,069.6	-7,267.3	45.4	7,267.4	0.00	0.00	0.00	
19,900.0	90.06	179.58	12,069.5	-7,367.3	46.1	7,367.4	0.00	0.00	0.00	
20,000.0	90.06	179.58	12,069.4	-7,467.3	46.9	7,467.4	0.00	0.00	0.00	
20,100.0	90.06	179.58	12,069.3	-7,567.3	47.6	7,567.4	0.00	0.00	0.00	
20,200.0	90.06	179.58	12,069.2	-7,667.3	48.3	7,667.4	0.00	0.00	0.00	
20,300.0	90.06	179.58	12,069.1	-7,767.3	49.0	7,767.4	0.00	0.00	0.00	
20,400.0	90.06	179.58	12,069.0	-7,867.3	49.8	7,867.4	0.00	0.00	0.00	
20,500.0	90.06	179.58	12,068.9	-7,967.3	50.5	7,967.4	0.00	0.00	0.00	
20,600.0	90.06	179.58	12,068.8	-8,067.3	51.2	8,067.4	0.00	0.00	0.00	
20,700.0	90.06	179.58	12,068.7	-8,167.2	52.0	8,167.4	0.00	0.00	0.00	
20,800.0	90.06	179.58	12,068.6	-8,267.2	52.7	8,267.4	0.00	0.00	0.00	
20,900.0	90.06	179.58	12,068.5	-8,367.2	53.4	8,367.4	0.00	0.00	0.00	
21,000.0	90.06	179.58	12,068.4	-8,467.2	54.1	8,467.4	0.00	0.00	0.00	
21,100.0	90.06	179.58	12,068.3	-8,567.2	54.9	8,567.4	0.00	0.00	0.00	
21,200.0	90.06	179.58	12,068.2	-8,667.2	55.6	8,667.4	0.00	0.00	0.00	
21,300.0	90.06	179.58	12,068.1	-8,767.2	56.3	8,767.4	0.00	0.00	0.00	
21,400.0	90.06	179.58	12,068.0	-8,867.2	57.0	8,867.4	0.00	0.00	0.00	
21,500.0	90.06	179.58	12,067.9	-8,967.2	57.8	8,967.4	0.00	0.00	0.00	

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.5usft (MCVAY 8)
Well:	WINDWARD FED #702H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

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)
21,600.0	90.06	179.58	12,067.8	-9,067.2	58.5	9,067.4	0.00	0.00	0.00
21,700.0	90.06	179.58	12,067.7	-9,167.2	59.2	9,167.4	0.00	0.00	0.00
21,800.0	90.06	179.58	12,067.6	-9,267.2	59.9	9,267.4	0.00	0.00	0.00
21,900.0	90.06	179.58	12,067.5	-9,367.2	60.7	9,367.4	0.00	0.00	0.00
22,000.0	90.06	179.58	12,067.4	-9,467.2	61.4	9,467.4	0.00	0.00	0.00
22,100.0	90.06	179.58	12,067.3	-9,567.2	62.1	9,567.4	0.00	0.00	0.00
22,200.0	90.06	179.58	12,067.2	-9,667.2	62.9	9,667.4	0.00	0.00	0.00
22,300.0	90.06	179.58	12,067.1	-9,767.2	63.6	9,767.4	0.00	0.00	0.00
22,357.7	90.06	179.58	12,067.0	-9,824.9	64.0	9,825.1	0.00	0.00	0.00
TD at 22357.7									

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP (WINDWARD FE - plan misses target center by 7.7usft at 22300.0usft MD (12067.1 TVD, -9767.2 N, 63.6 E) - Point	0.00	0.00	12,067.0	-9,774.9	63.6	424,946.20	693,265.40	32° 10' 0.308 N	103° 42' 31.530 W
PBHL (WINDWARD F - plan hits target center - Rectangle (sides W100.0 H10,463.0 D20.0)	0.06	359.58	12,067.0	-9,824.9	64.0	424,896.20	693,265.80	32° 9' 59.814 N	103° 42' 31.529 W
FTP (WINDWARD FE - plan misses target center by 164.7usft at 12019.3usft MD (11949.3 TVD, 480.8 N, -10.9 E) - Circle (radius 50.0)	0.00	0.00	12,077.0	584.9	-12.0	435,306.00	693,189.80	32° 11' 42.832 N	103° 42' 31.710 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2500	2500	0	0	Start Build 2.00
2750	2750	11	0	Start 6892.4 hold at 2750.0 MD
9642	9616	612	-12	Start Drop -1.00
10,142	10,115	633	-12	Start 1484.3 hold at 10142.4 MD
11,627	11,600	633	-12	Start DLS 12.00 TFO 179.58
12,377	12,077	155	-9	Start 9980.5 hold at 12377.2 MD
22,358	12,067	-9825	64	TD at 22357.7

Checked By: _____ Approved By: _____ Date: _____



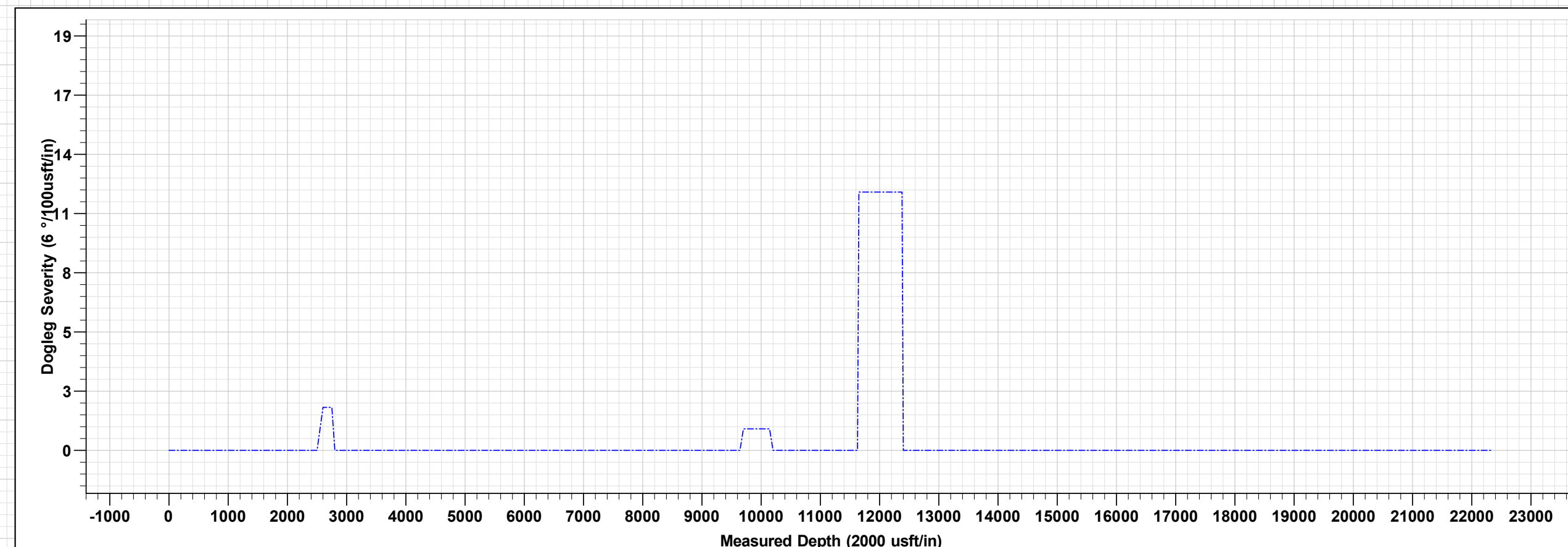
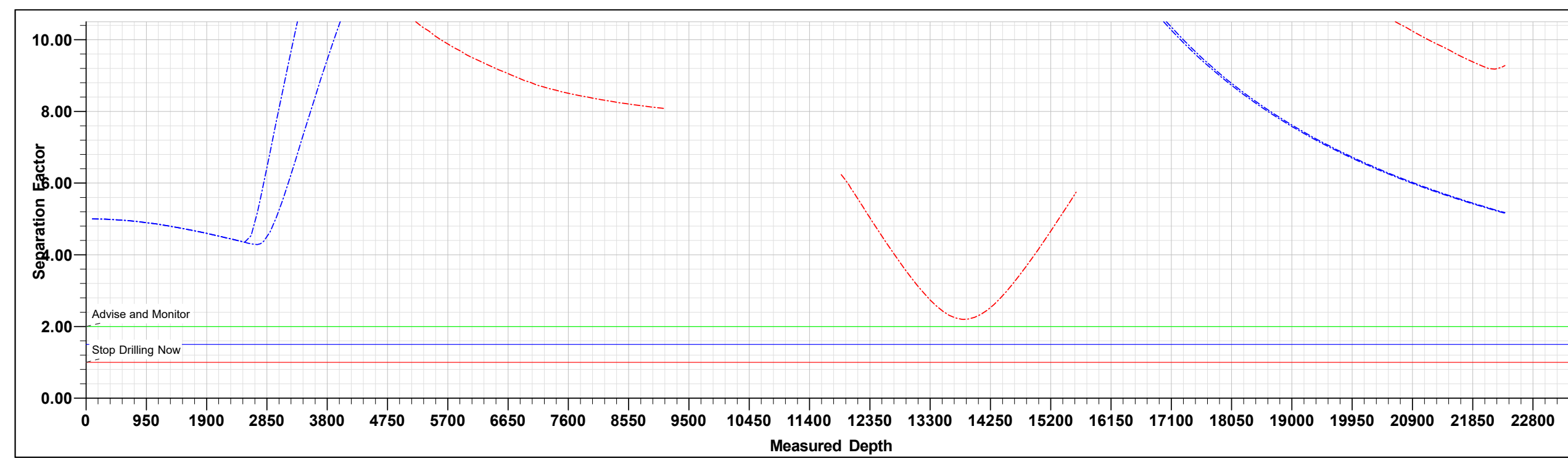
Project: BULLDOG PROSPECT (NM-E)
Site: WINDWARD FEDERAL PROJECT (BULLDOG 2432)
Well: WINDWARD FED #702H
Wellbore: OWB
Design: PWP1
GL: 3550.5
KB=26' @ 3576.5usft (MCVAY 8)

WELL DETAILS: WINDWARD FED #702H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	434721.10	693201.80	32° 11' 37.043 N	103° 42' 31.610 W

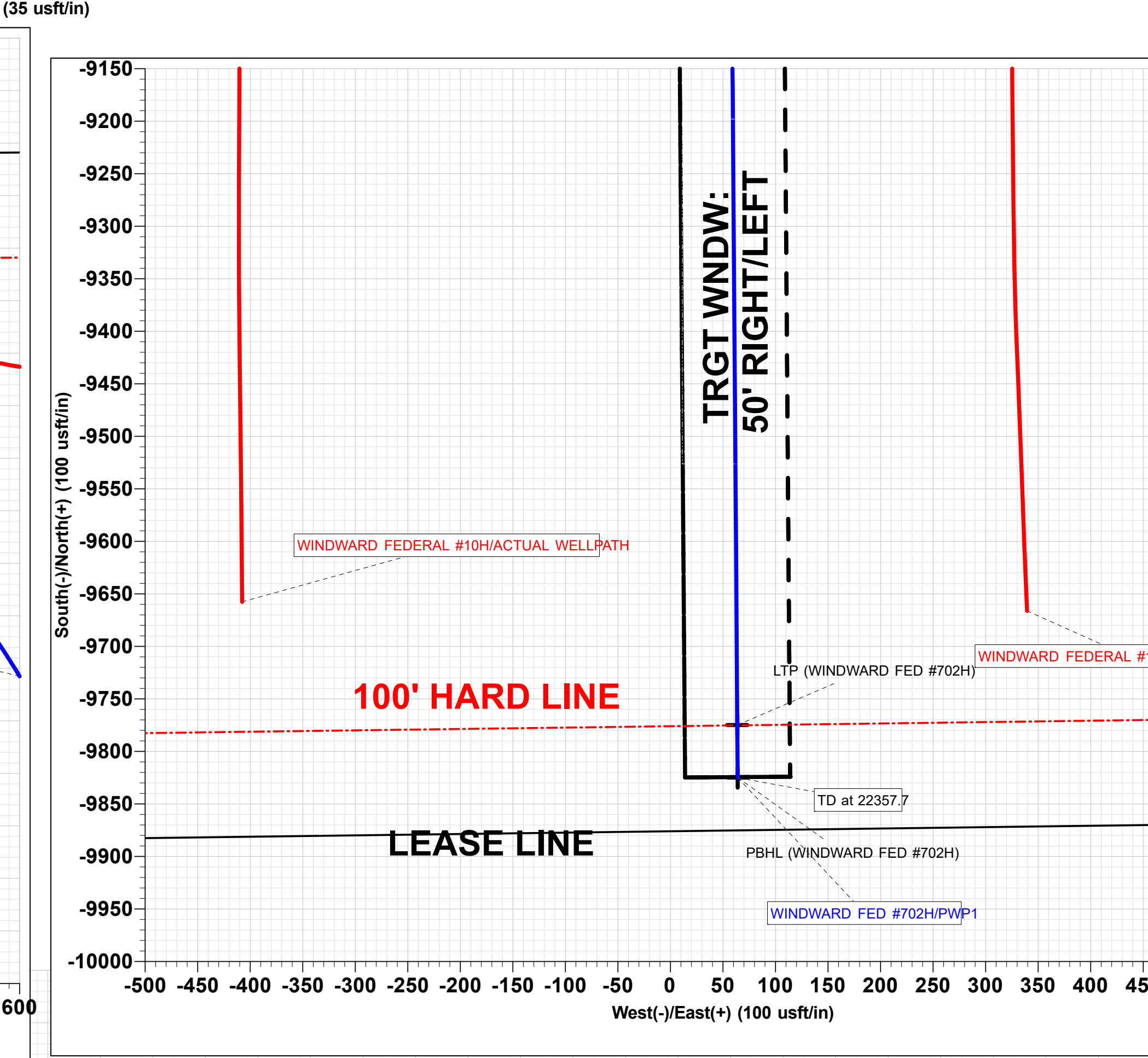
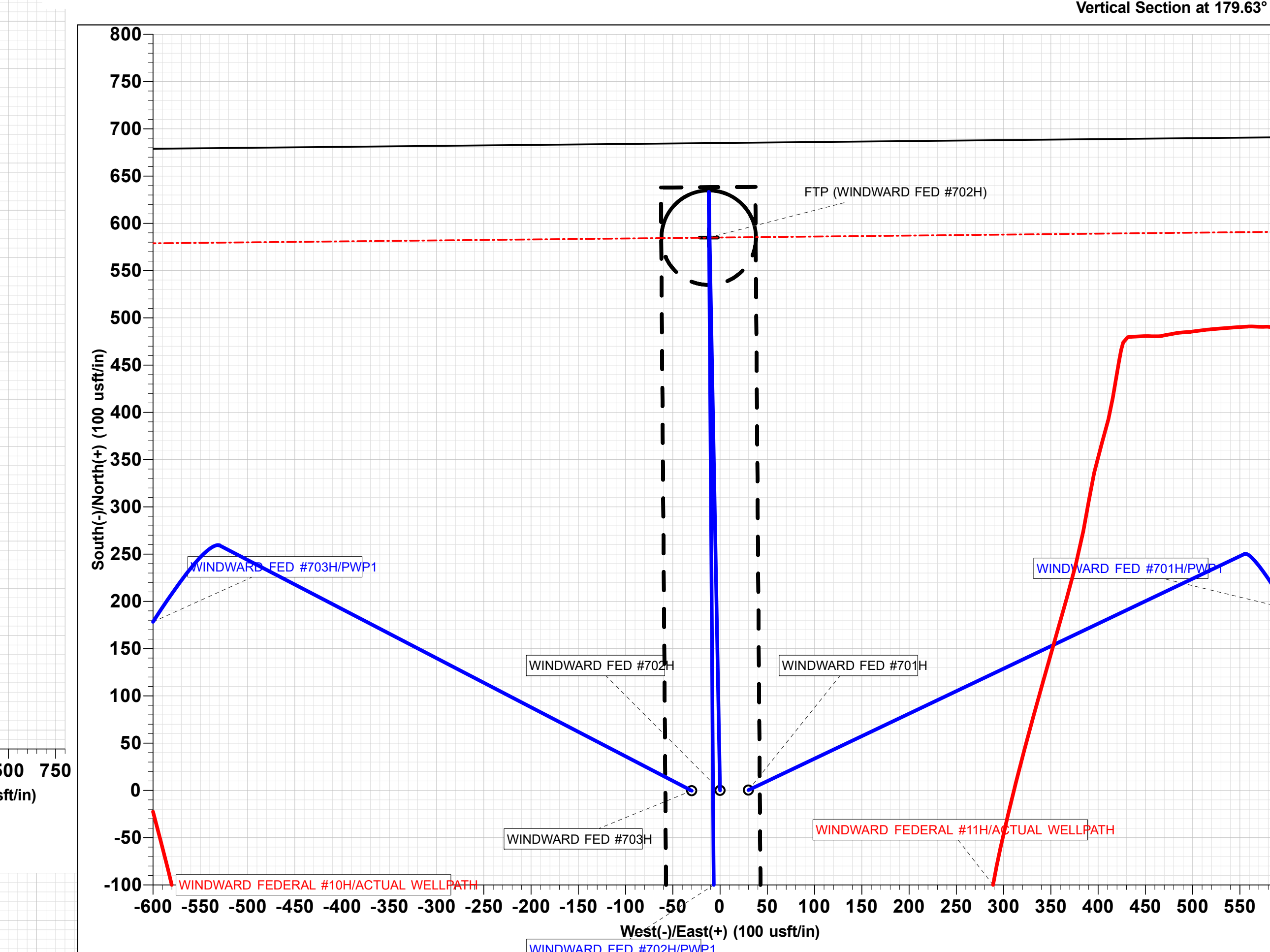
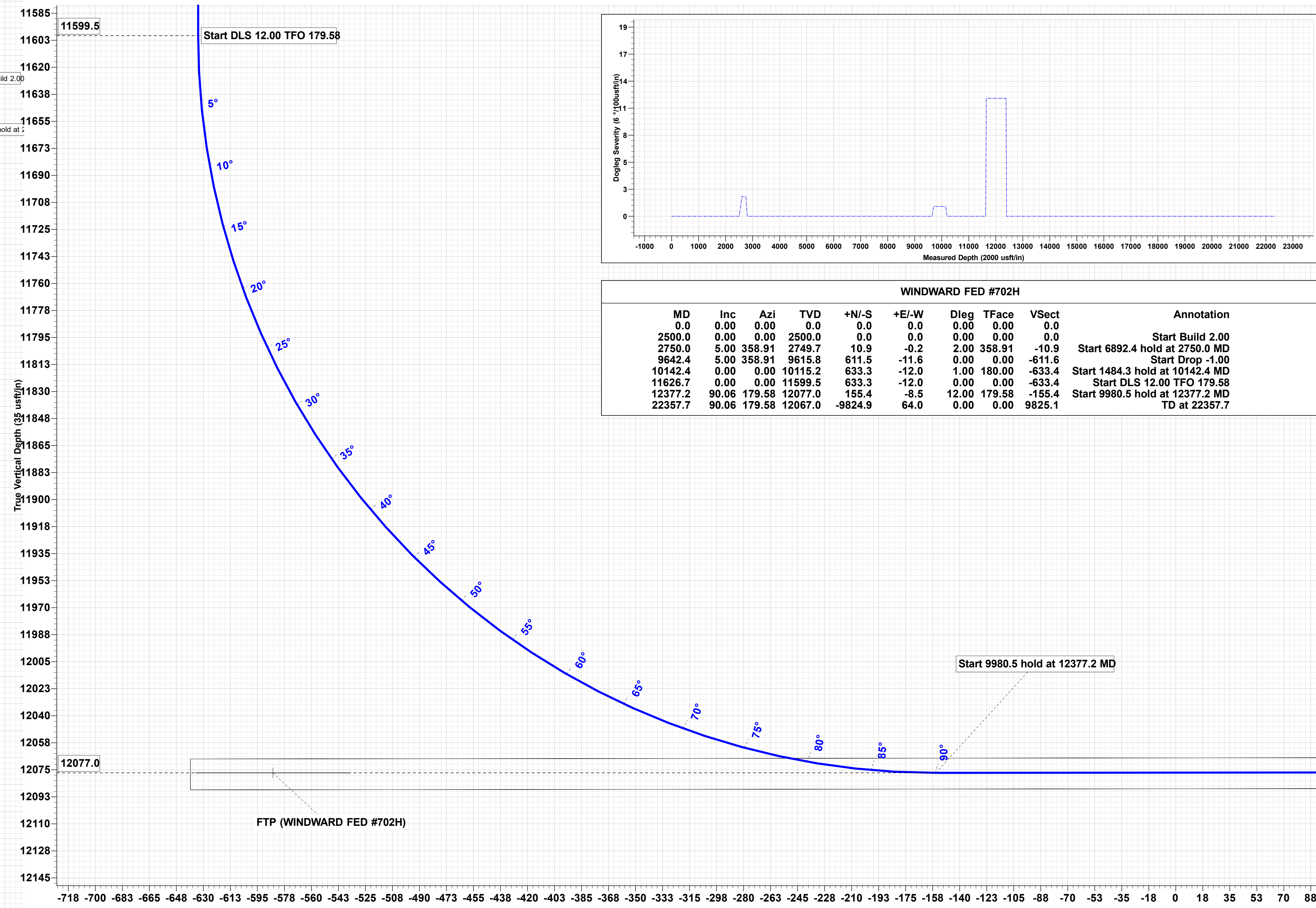
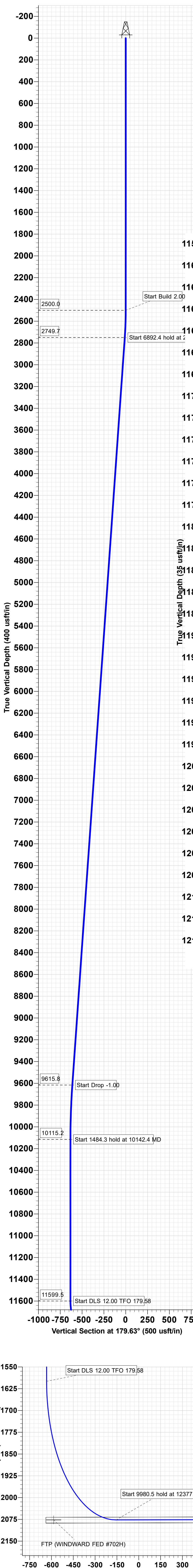
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LTP (WINDWARD FED #702H)	12067.0	-9774.9	63.6	424946.20	693265.40	32° 10' 0.308 N	103° 42' 31.530 W
PBHL (WINDWARD FED #702H)	12067.0	-9824.9	64.0	424896.20	693265.80	32° 9' 59.814 N	103° 42' 31.529 W
FTP (WINDWARD FED #702H)	12077.0	584.9	-12.0	435306.00	693189.80	32° 11' 42.832 N	103° 42' 31.710 W

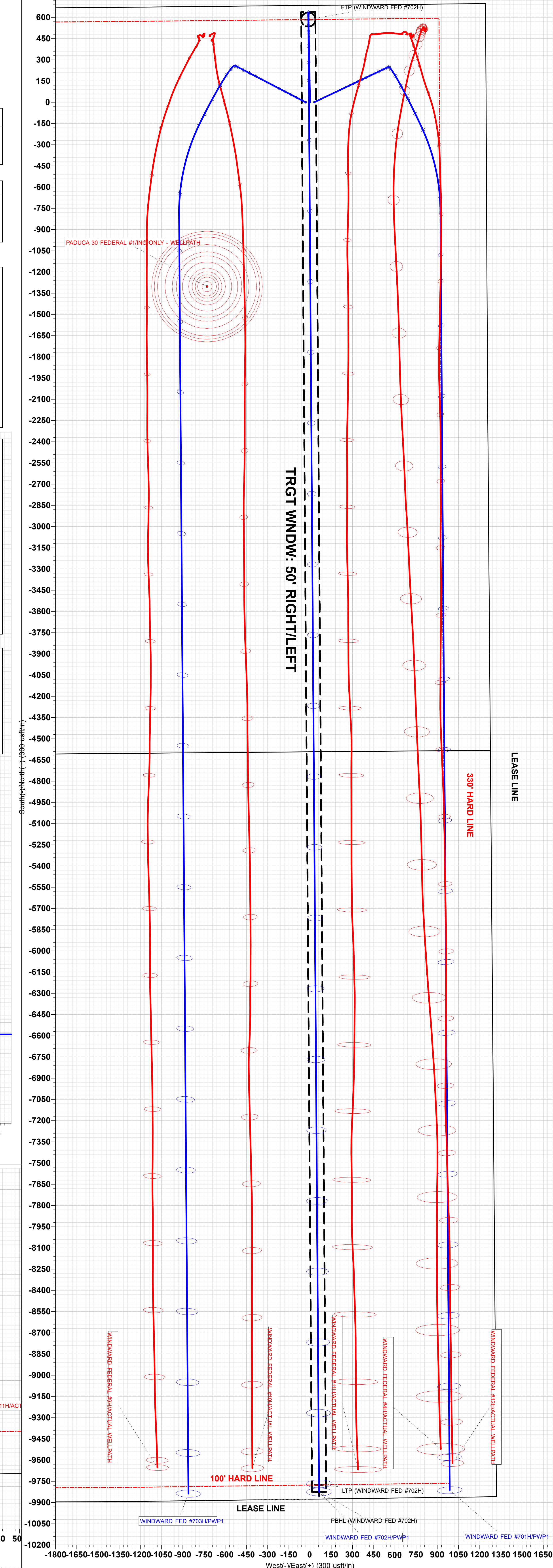


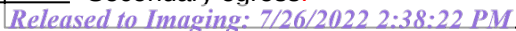
WINDWARD FED #702H

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	Start 6892.4 hold at 2750.0 MD
2750.0	5.00	358.91	2749.7	10.9	-0.2	2.00	358.91	-10.9	Start Drop -1.00
9642.4	5.00	358.91	9615.8	611.5	-11.6	0.00	0.00	-611.6	Start DLS 12.00 TFO 179.58
10142.4	0.00	0.00	10115.2	633.3	-12.0	1.00	180.00	-633.4	Start 9980.5 hold at 12377.2 MD
11626.7	0.00	0.00	11599.5	633.3	-12.0	0.00	0.00	-633.4	TD at 22357.7
12377.2	90.06	179.58	12077.0	155.4	-8.5	12.00	179.58	-155.4	
22357.7	90.06	179.58	12067.0	-9824.9	64.0	0.00	0.00	9825.1	



TRGT WNDW: 10'
ABOVE/BELOW





COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

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

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

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

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

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

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

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

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

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

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

W A R N I N G

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

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

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
SETH WILD	432-683-7443	432-528-3633
WALTER ROYE	575-748-6940	432-934-1886

EMERGENCY RESPONSE NUMBERS

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

District I

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

District II

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

District III

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

District IV

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

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

CONDITIONS

Action 120015

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 120015
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	7/26/2022
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	7/26/2022
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	7/26/2022
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	7/26/2022