

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. X00X33 [333084]	
2. Name of Operator [229137]		9. API Well No. 30-025-50382	
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: LOT 1 / 710 FNL / 760 FWL / TWSP: 24S / RANGE: 32E / SECTION: 30 / LAT: 32.193653 / LONG: -103.720514 (TVD: 0 feet, MD: 0 feet)

PPP: NENW / 100 FNL / 2178 FWL / TWSP: 24S / RANGE: 32E / SECTION: 30 / LAT: 32.195336 / LONG: -103.715931 (TVD: 11847 feet, MD: 11929 feet)

BHL: SESW / 50 FSL / 2178 FWL / TWSP: 24S / RANGE: 32E / SECTION: 31 / LAT: 32.166712 / LONG: -103.715918 (TVD: 11994 feet, MD: 21979 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 704H
SURFACE HOLE FOOTAGE:	710'/N & 760'/W
BOTTOM HOLE FOOTAGE:	50'/S & 2178'/W

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 **800** 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) 476-3482

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

S243217P;UPR WC

API Number 30-025- 50382	Pool Code 98252 98248	Pool Name Mesa Verde Wolfcamp
Property Code 333084	Property Name WINDWARD FEDERAL	Well Number 704H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3541.0'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	30	24-S	32-E		710	NORTH	760	WEST	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
N	31	24-S	32-E		50	SOUTH	2178	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
691.72			

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

POINT LEGEND <table border="1"> <tr><td>1</td><td>Y=435430.2 N X=730140.9 E</td></tr> <tr><td>2</td><td>Y=432790.7 N X=730157.0 E</td></tr> <tr><td>3</td><td>Y=430150.9 N X=730172.3 E</td></tr> <tr><td>4</td><td>Y=427509.5 N X=730189.1 E</td></tr> <tr><td>5</td><td>Y=424873.0 N X=730205.8 E</td></tr> <tr><td>6</td><td>Y=424886.2 N X=733060.2 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> ETP 100' FNL & 2178' FWL Y=435345.7 N X=732319.5 E LAT.=32.195336° N LONG.=103.715931° W GRID AZ. TO FTP 66°19'23" LTP 100' FSL & 2178' FWL Y=424983.0 N X=732383.1 E LAT.=32.166850° N LONG.=103.715918° W B.H. 50' SECTION 30 SECTION 31 GRID AZ. - 179°38'54" HORZ. DIST. - 10412.9'	1	Y=435430.2 N X=730140.9 E	2	Y=432790.7 N X=730157.0 E	3	Y=430150.9 N X=730172.3 E	4	Y=427509.5 N X=730189.1 E	5	Y=424873.0 N X=730205.8 E	6	Y=424886.2 N X=733060.2 E	7	Y=430176.4 N X=733021.2 E	8	Y=435450.5 N X=732978.6 E	NAD 83 NME <u>SURFACE LOCATION</u> Y=434725.6 N X=730905.3 E LAT.=32.193653° N LONG.=103.720514° W NAD 83 NME <u>PROPOSED BOTTOM HOLE LOCATION</u> Y=424933.0 N X=732383.4 E LAT.=32.166712° N LONG.=103.715918° 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> 1/8/2021 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. Harcrow</i> 12/3/20 Certificate No. CHAD HARCROW 17777 W.O. # 20-1593 DRAWN BY: DS
1	Y=435430.2 N X=730140.9 E																	
2	Y=432790.7 N X=730157.0 E																	
3	Y=430150.9 N X=730172.3 E																	
4	Y=427509.5 N X=730189.1 E																	
5	Y=424873.0 N X=730205.8 E																	
6	Y=424886.2 N X=733060.2 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 704H

Kick Off Point (KOP)

UL	Section 30	Township 24S	Range 32E	Lot 1	Feet	From N/S	Feet	From E/W	County Lea
Latitude					Longitude				NAD 83

First Take Point (FTP)

UL C	Section 30	Township 24S	Range 32E	Lot	Feet 100	From N/S North	Feet 2178	From E/W West	County Lea
Latitude 32.195336					Longitude -103.715931				NAD 83

Last Take Point (LTP)

UL N	Section 31	Township 24S	Range 32E	Lot	Feet 100	From N/S South	Feet 2178	From E/W West	County Lea
Latitude 32.166850					Longitude -103.715918				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐ NoIs this well an infill well? ☐ Yes

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 705H

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

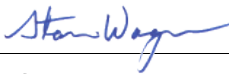
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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 - Winward Federal Com #704H

1. Geologic Formations

TVD of target	11,994' EOL	Pilot hole depth	NA
MD at TD:	21,980'	Deepest expected fresh water:	380'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	706	Water	
Top of Salt	1030	Salt	
Base of Salt	4304	Salt	
Lamar	4532	Salt Water	
Bell Canyon	4563	Salt Water	
Cherry Canyon	5482	Oil/Gas	
Brushy Canyon	6765	Oil/Gas	
Bone Spring Lime	8445	Oil/Gas	
1st Bone Spring Sand	9589	Oil/Gas	
2nd Bone Spring Sand	10203	Oil/Gas	
3rd Bone Spring Sand	11436	Oil/Gas	
Wolfcamp	11872	Target Oil/Gas	
Wolfcamp B	12363	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	980	10.75"	45.5	N80	BTC	5.64	1.58	23.32	24.60
9.875"	0	8500	7.625"	29.7	HCL80	BTC	1.50	1.16	2.88	2.90
8.750"	8500	11451	7.625"	29.7	HCP 110	TL-FJ	1.26	1.20	2.76	1.93
6.75"	0	11251	5.5"	23	P110	BTC	1.94	2.31	2.64	2.62
6.75"	11251	21,980	5.5"	23	P110	Talon HTQ	1.94	2.31	2.64	2.56
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 - Winward Federal Com #704H

	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 - Winward Federal Com #704H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft ³ / sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	400	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 - Winward Federal Com #704H

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 - Winward Federal Com #704H

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 - Winward Federal Com #704H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	7485 psi at 11994' 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

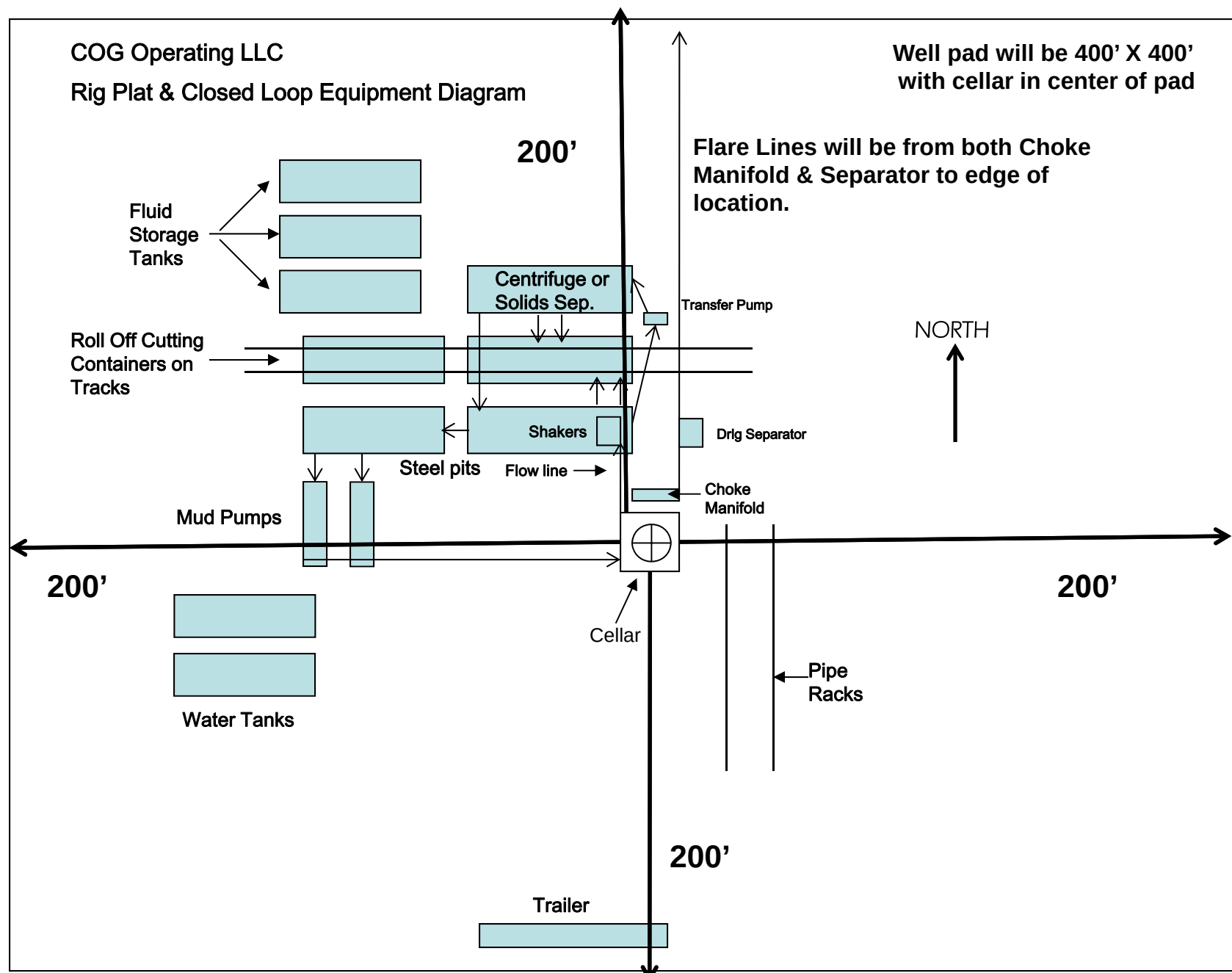


Exhibit 1

"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 #704H

OWB
PWP1

Anticollision Report

11 December, 2020

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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	11,595.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
11,595.0	21,979.4	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)						
KING TUT FEDERAL #1H - OWB - ACTUAL WELLPATH	2,556.5	2,561.4	647.5	595.6	12.474	CC, ES
KING TUT FEDERAL #1H - OWB - ACTUAL WELLPATH	2,600.0	2,604.3	647.6	595.7	12.471	SF
KING TUT FEDERAL #2H - OWB - ACTUAL WELLPATH	8,399.0	8,475.8	297.4	278.9	16.045	CC
KING TUT FEDERAL #2H - OWB - ACTUAL WELLPATH	8,400.0	8,476.3	297.4	278.9	16.041	ES
KING TUT FEDERAL #2H - OWB - ACTUAL WELLPATH	8,500.0	8,521.1	310.5	290.7	15.728	SF
WINDWARD FED #705H - OWB - PWP1	2,500.0	2,500.0	30.0	17.3	2.365	CC, ES
WINDWARD FED #705H - OWB - PWP1	2,600.0	2,600.7	30.6	17.5	2.342	SF
WINDWARD FED #706H - OWB - PWP1	2,416.5	2,416.9	60.0	47.6	4.848	CC
WINDWARD FED #706H - OWB - PWP1	2,500.0	2,500.0	60.0	47.3	4.730	ES, SF
WINDWARD FEDERAL #1H - OWB - ACTUAL WELLPATH	0.0	0.0	615.6			
WINDWARD FEDERAL #1H - OWB - ACTUAL WELLPATH	2,300.0	2,294.9	617.8	606.8	56.044	ES
WINDWARD FEDERAL #1H - OWB - ACTUAL WELLPATH	10,500.0	10,509.7	1,152.5	1,114.7	30.514	SF
WINDWARD FEDERAL #2H - LATERAL 01 - AWP-LATE	10,583.5	10,627.8	272.8	249.7	11.819	CC, ES
WINDWARD FEDERAL #2H - LATERAL 01 - AWP-LATE	21,800.0	20,401.0	1,568.6	1,404.5	9.557	SF
WINDWARD FEDERAL #2H - OWB-PILOT HOLE - AWF	11,265.4	11,220.0	320.6	299.4	15.123	CC, ES
WINDWARD FEDERAL #2H - OWB-PILOT HOLE - AWF	11,500.0	11,220.0	397.3	362.1	11.296	SF
WINDWARD FEDERAL #5H - OWB - ACTUAL WELLPATH	751.1	749.1	549.1	544.5	120.577	CC
WINDWARD FEDERAL #5H - OWB - ACTUAL WELLPATH	1,500.0	1,496.7	549.9	543.4	84.932	ES
WINDWARD FEDERAL #5H - OWB - ACTUAL WELLPATH	9,600.0	9,307.9	1,100.2	1,068.0	34.209	SF
WINDWARD FEDERAL #6H - OWB - ACTUAL WELLPATH	3,254.2	3,265.7	525.7	517.5	64.263	CC
WINDWARD FEDERAL #6H - OWB - ACTUAL WELLPATH	3,300.0	3,311.8	525.7	517.5	64.034	ES
WINDWARD FEDERAL #6H - OWB - ACTUAL WELLPATH	9,600.0	9,464.1	773.7	748.1	30.132	SF
WINDWARD FEDERAL #7H - OWB - ACTUAL WELLPATH	9,259.1	9,428.8	201.5	181.4	10.032	CC, ES
WINDWARD FEDERAL #7H - OWB - ACTUAL WELLPATH	9,400.0	9,431.0	245.9	219.6	9.354	SF
WINDWARD FEDERAL #8H - OWB - ACTUAL WELLPATH	9,125.6	9,091.9	586.7	568.1	31.519	CC, ES
WINDWARD FEDERAL #8H - OWB - ACTUAL WELLPATH	9,500.0	9,193.8	679.4	655.3	28.114	SF

Offset Design												WINDWARD FEDERAL PROJECT (BULLDOG 2432) - KING TUT FEDERAL #1H - OWB - ACTUAL W												Offset Site Error:		0.0 usft	
Survey Program:												211-MWD, 4639-MWD, 7802-MWD												Offset Well Error:		2.0 usft	
Reference			Offset		Semi Major Axis				Distance																		
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Between	Between	Minimum	Separation			Warning												
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor															
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)																

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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) - KING TUT FEDERAL #1H - OWB - ACTUAL W													Offset Site Error:	0.0 usft
Survey Program: 211-MWD, 4639-MWD, 7802-MWD													Offset Well Error:	2.0 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
0.0	0.0	0.0	0.0	3.0	2.0	-39.97	-39.97	516.9	-433.2	674.4				
100.0	100.0	102.1	102.1	3.0	2.1	-39.93	-39.93	517.0	-432.7	674.2	669.1	5.12	131.790	
200.0	200.0	205.2	205.2	3.0	2.5	-39.81	-39.81	517.4	-431.2	673.5	668.1	5.44	123.894	
300.0	300.0	300.5	300.5	3.0	2.8	-39.70	-39.70	517.7	-429.8	672.9	667.1	5.76	116.870	
400.0	400.0	401.0	401.0	3.0	4.1	-39.65	-39.65	518.0	-429.2	672.7	665.7	7.04	95.555	
500.0	500.0	503.1	503.0	3.1	5.9	-39.58	-39.58	518.1	-428.3	672.3	663.5	8.82	76.209	
600.0	600.0	605.1	605.1	3.1	7.7	-39.50	-39.50	518.2	-427.1	671.5	660.8	10.70	62.779	
700.0	700.0	707.2	707.1	3.1	9.6	-39.40	-39.40	518.0	-425.5	670.5	657.9	12.61	53.158	
800.0	800.0	807.8	807.8	3.2	11.0	-39.29	-39.29	517.8	-423.7	669.1	655.1	14.08	47.538	
900.0	900.0	906.5	906.4	3.2	11.8	-39.21	-39.21	517.5	-422.3	667.9	653.1	14.88	44.888	
1,000.0	1,000.0	1,006.0	1,005.9	3.2	12.4	-39.17	-39.17	517.1	-421.2	666.9	651.3	15.60	42.741	
1,100.0	1,100.0	1,108.4	1,108.3	3.3	12.8	-39.12	-39.12	516.4	-420.0	665.7	649.7	16.06	41.463	
1,200.0	1,200.0	1,210.8	1,210.7	3.4	13.3	-39.07	-39.07	515.5	-418.5	664.1	647.6	16.52	40.212	
1,300.0	1,300.0	1,310.6	1,310.5	3.4	16.1	-39.02	-39.02	514.5	-416.9	662.4	643.0	19.33	34.272	
1,400.0	1,400.0	1,409.9	1,409.8	3.5	19.5	-38.97	-38.97	513.6	-415.4	660.7	638.0	22.64	29.180	
1,500.0	1,500.0	1,509.3	1,509.1	3.5	23.1	-38.91	-38.91	512.8	-414.0	659.1	633.1	26.00	25.350	
1,600.0	1,600.0	1,608.6	1,608.5	3.6	26.7	-38.86	-38.86	512.0	-412.6	657.6	628.2	29.39	22.378	
1,700.0	1,700.0	1,708.0	1,707.8	3.7	30.3	-38.82	-38.82	511.2	-411.3	656.2	623.4	32.79	20.011	
1,800.0	1,800.0	1,807.3	1,807.1	3.8	33.9	-38.77	-38.77	510.6	-410.1	654.9	618.7	36.21	18.085	
1,900.0	1,900.0	1,906.7	1,906.5	3.9	37.6	-38.72	-38.72	510.0	-408.9	653.7	614.1	39.65	16.488	
2,000.0	2,000.0	2,006.0	2,005.8	3.9	41.2	-38.68	-38.68	509.4	-407.9	652.6	609.5	43.09	15.145	
2,100.0	2,100.0	2,105.4	2,105.2	4.0	44.9	-38.64	-38.64	509.0	-406.9	651.6	605.1	46.55	14.000	
2,200.0	2,200.0	2,205.4	2,205.2	4.1	46.5	-38.59	-38.59	508.6	-405.9	650.7	602.6	48.15	13.515	
2,300.0	2,300.0	2,305.5	2,305.3	4.2	47.7	-38.54	-38.54	508.2	-404.8	649.7	600.3	49.40	13.151	
2,400.0	2,400.0	2,405.7	2,405.4	4.3	48.9	-38.49	-38.49	507.8	-403.8	648.8	598.1	50.67	12.804	
2,500.0	2,500.0	2,505.7	2,505.4	4.4	50.0	-38.43	-38.43	507.4	-402.6	647.8	595.9	51.84	12.496	
2,556.5	2,556.5	2,561.4	2,561.2	4.4	50.1	-116.17	-116.17	507.1	-402.1	647.5	595.6	51.91	12.474 CC, ES	
2,600.0	2,600.0	2,604.3	2,604.0	4.5	50.1	-116.26	-116.26	506.8	-401.9	647.6	595.7	51.93	12.471 SF	
2,700.0	2,699.8	2,702.7	2,702.4	4.5	50.2	-116.70	-116.70	505.9	-402.0	649.3	597.4	51.90	12.511	
2,801.5	2,800.9	2,803.3	2,803.0	4.6	50.3	-117.45	-117.45	504.7	-402.8	652.9	601.1	51.76	12.613	
2,900.0	2,898.9	2,904.4	2,904.2	4.6	50.4	-118.35	-118.35	503.5	-403.1	657.1	605.5	51.60	12.734	
3,000.0	2,998.3	3,007.4	3,007.1	4.7	50.5	-119.17	-119.17	502.6	-402.2	660.9	609.5	51.45	12.846	
3,100.0	3,097.8	3,110.0	3,109.7	4.7	50.6	-119.88	-119.88	502.1	-400.1	664.4	613.0	51.34	12.942	
3,200.0	3,197.2	3,210.8	3,210.4	4.8	50.8	-120.57	-120.57	501.3	-397.8	667.6	616.3	51.29	13.015	
3,300.0	3,296.7	3,310.0	3,309.6	4.8	51.0	-121.23	-121.23	500.7	-395.5	670.9	619.6	51.33	13.071	
3,400.0	3,396.1	3,409.2	3,408.9	4.9	51.2	-121.88	-121.88	500.1	-393.2	674.4	623.0	51.36	13.129	
3,500.0	3,495.6	3,508.5	3,508.1	5.0	51.4	-122.51	-122.51	499.6	-390.8	678.0	626.6	51.40	13.189	
3,600.0	3,595.0	3,609.7	3,609.3	5.1	51.6	-123.15	-123.15	499.1	-388.3	681.6	630.2	51.41	13.257	
3,700.0	3,694.5	3,712.1	3,711.6	5.1	51.8	-123.81	-123.81	498.1	-385.8	685.0	633.6	51.39	13.328	
3,800.0	3,793.9	3,811.4	3,810.9	5.2	51.9	-124.49	-124.49	496.7	-383.6	688.2	637.0	51.29	13.420	
3,900.0	3,893.4	3,913.3	3,912.8	5.3	52.0	-125.21	-125.21	494.9	-381.4	691.5	640.3	51.16	13.516	
4,000.0	3,992.8	4,011.8	4,011.2	5.4	52.1	-125.89	-125.89	493.1	-379.2	694.7	643.7	51.04	13.612	
4,100.0	4,092.3	4,112.1	4,111.5	5.4	52.2	-126.58	-126.58	491.3	-377.0	698.1	647.2	50.93	13.708	
4,200.0	4,191.7	4,213.1	4,212.4	5.5	52.3	-127.27	-127.27	489.4	-374.7	701.5	650.7	50.82	13.803	
4,300.0	4,291.2	4,314.9	4,314.2	5.6	52.5	-127.98	-127.98	487.1	-372.2	704.6	653.9	50.70	13.896	
4,400.0	4,390.6	4,415.0	4,414.2	5.7	52.6	-128.69	-128.69	484.5	-369.9	707.7	657.2	50.58	13.993	
4,500.0	4,490.0	4,514.0	4,513.2	5.8	52.7	-129.38	-129.38	482.0	-367.5	710.8	660.4	50.44	14.092	
4,600.0	4,589.5	4,617.3	4,616.3	5.9	52.7	-130.09	-130.09	479.3	-364.8	713.9	663.7	50.27	14.202	
4,700.0	4,688.9	4,707.4	4,706.4	6.0	52.7	-130.69	-130.69	477.2	-362.5	717.3	667.2	50.08	14.323	
4,800.0	4,788.4	4,791.3	4,790.3	6.1	52.8	-131.26	-131.26	476.0	-361.7	722.7	672.8	49.86	14.494	
4,900.0	4,887.8	4,885.3	4,884.3	6.2	52.8	-131.92	-131.92	475.4	-362.6	730.0	680.4	49.63	14.709	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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) - KING TUT FEDERAL #1H - OWB - ACTUAL W													Offset Site Error:	0.0 usft
Survey Program: 211-MWD, 4639-MWD, 7802-MWD													Offset Well Error:	2.0 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	4,987.3	4,986.1	4,985.1	6.3	52.8	-132.62	474.6	-363.4	737.3	687.9	49.40	14.924		
5,100.0	5,086.7	5,087.0	5,086.0	6.4	52.8	-133.29	473.9	-363.9	744.5	695.4	49.19	15.137		
5,200.0	5,186.2	5,185.7	5,184.7	6.5	52.8	-133.93	473.2	-364.4	751.8	702.8	48.98	15.348		
5,300.0	5,285.6	5,285.2	5,284.2	6.6	52.8	-134.57	472.5	-364.9	759.2	710.4	48.78	15.563		
5,400.0	5,385.1	5,381.9	5,380.9	6.7	52.8	-135.18	471.8	-365.6	766.8	718.3	48.59	15.782		
5,500.0	5,484.5	5,480.1	5,479.0	6.8	52.9	-135.80	471.2	-366.6	774.9	726.5	48.40	16.009		
5,600.0	5,584.0	5,580.1	5,579.1	6.9	52.9	-136.42	470.5	-367.6	783.0	734.8	48.23	16.236		
5,700.0	5,683.4	5,678.4	5,677.3	7.0	52.9	-137.01	469.9	-368.7	791.2	743.2	48.06	16.465		
5,800.0	5,782.9	5,777.3	5,776.3	7.1	52.9	-137.61	469.2	-369.9	799.7	751.8	47.89	16.697		
5,900.0	5,882.3	5,878.5	5,877.4	7.2	53.0	-138.19	468.6	-370.9	808.1	760.3	47.75	16.924		
6,000.0	5,981.7	5,977.8	5,976.7	7.3	53.0	-138.75	468.0	-371.7	816.4	768.8	47.61	17.148		
6,100.0	6,081.2	6,075.6	6,074.5	7.4	53.0	-139.27	467.7	-372.6	825.0	777.5	47.49	17.372		
6,200.0	6,180.6	6,174.6	6,173.5	7.5	53.1	-139.78	467.4	-373.5	833.6	786.2	47.38	17.594		
6,300.0	6,280.1	6,271.1	6,270.0	7.6	53.1	-140.29	467.0	-374.7	842.7	795.4	47.27	17.828		
6,400.0	6,379.5	6,371.8	6,370.7	7.7	53.2	-140.83	466.4	-376.2	851.8	804.7	47.16	18.063		
6,500.0	6,479.0	6,471.4	6,470.3	7.9	53.2	-141.36	465.7	-377.5	860.8	813.8	47.06	18.294		
6,600.0	6,578.4	6,569.4	6,568.3	8.0	53.3	-141.83	465.5	-378.7	870.1	823.1	46.98	18.520		
6,700.0	6,677.9	6,666.5	6,665.4	8.1	53.3	-142.29	465.3	-380.0	879.5	832.6	46.91	18.748		
6,800.0	6,777.3	6,763.9	6,762.7	8.2	53.4	-142.76	465.0	-381.7	889.3	842.5	46.84	18.986		
6,900.0	6,876.8	6,863.1	6,862.0	8.3	53.4	-143.23	464.7	-383.5	899.3	852.5	46.78	19.222		
7,000.0	6,976.2	6,961.4	6,960.3	8.4	53.5	-143.65	464.9	-385.1	909.3	862.5	46.75	19.451		
7,100.0	7,075.7	7,064.4	7,063.2	8.5	53.5	-144.10	464.8	-386.9	919.3	872.6	46.72	19.678		
7,200.0	7,175.1	7,160.1	7,158.9	8.7	53.6	-144.50	464.8	-388.3	929.2	882.5	46.70	19.899		
7,300.0	7,274.6	7,261.6	7,260.4	8.8	53.7	-144.93	464.7	-390.1	939.4	892.7	46.68	20.124		
7,400.0	7,374.0	7,358.7	7,357.5	8.9	53.7	-145.33	464.5	-391.7	949.5	902.8	46.67	20.345		
7,500.0	7,473.4	7,456.5	7,455.3	9.0	53.8	-145.74	464.2	-393.6	959.9	913.2	46.66	20.571		
7,600.0	7,572.9	7,556.1	7,554.8	9.1	53.9	-146.16	463.8	-395.7	970.4	923.7	46.66	20.796		
7,700.0	7,672.3	7,657.2	7,655.9	9.2	54.0	-146.58	463.2	-397.7	980.8	934.1	46.67	21.017		
7,800.0	7,771.8	7,775.5	7,774.2	9.4	54.0	-147.12	461.4	-400.0	990.9	944.3	46.64	21.245		
7,900.0	7,871.2	8,001.2	7,994.0	9.5	54.1	-150.29	415.6	-398.2	991.1	945.9	45.14	21.958		
8,000.0	7,970.7	8,169.1	8,149.9	9.6	54.2	-155.20	335.3	-397.7	986.0	943.3	42.64	23.122		
8,100.0	8,070.1	8,255.0	8,207.4	9.7	54.2	-158.46	281.1	-396.6	978.9	937.8	41.17	23.780		
8,189.8	8,159.4	8,326.5	8,255.9	9.8	54.2	-161.63	228.5	-398.0	977.1	937.3	39.77	24.569		
8,200.0	8,169.6	8,337.8	8,262.9	9.8	54.2	-162.15	219.7	-398.2	977.1	937.6	39.53	24.716		
8,300.0	8,269.0	8,442.2	8,321.4	10.0	54.3	-167.30	133.3	-398.1	979.4	942.0	37.40	26.190		
8,400.0	8,368.5	8,499.8	8,347.1	10.1	54.3	-170.34	81.9	-396.4	987.8	951.4	36.38	27.150		
8,500.0	8,467.9	8,535.7	8,360.1	10.2	54.3	-172.31	48.5	-395.1	1,004.5	968.7	35.87	28.007		
8,600.0	8,567.4	8,577.4	8,372.6	10.3	54.3	-174.63	8.8	-392.8	1,029.5	994.2	35.35	29.122		
8,700.0	8,666.8	8,596.0	8,377.3	10.5	54.3	-175.68	-9.2	-391.4	1,062.5	1,027.3	35.23	30.163		
8,800.0	8,766.3	8,609.8	8,380.4	10.6	54.3	-176.46	-22.6	-390.4	1,103.3	1,068.1	35.17	31.367		
8,900.0	8,865.7	8,617.8	8,382.1	10.7	54.3	-176.91	-30.4	-389.8	1,151.2	1,116.1	35.18	32.724		
9,000.0	8,965.2	8,628.0	8,384.0	10.8	54.3	-177.49	-40.4	-389.2	1,205.5	1,170.3	35.17	34.274		
9,100.0	9,064.6	8,628.0	8,384.0	11.0	54.3	-177.49	-40.4	-389.2	1,265.2	1,230.0	35.24	35.907		
9,200.0	9,164.0	8,628.0	8,384.0	11.1	54.3	-177.49	-40.4	-389.2	1,329.8	1,294.5	35.30	37.674		
9,300.0	9,263.5	8,639.5	8,386.0	11.2	54.4	-178.14	-51.7	-388.5	1,398.4	1,363.1	35.32	39.596		
9,400.0	9,362.9	8,643.3	8,386.6	11.3	54.4	-178.36	-55.5	-388.3	1,470.6	1,435.2	35.38	41.559		
9,500.0	9,462.4	8,646.8	8,387.1	11.5	54.4	-178.55	-58.9	-388.2	1,545.8	1,510.4	35.47	43.581		
9,600.0	9,561.8	8,659.0	8,388.8	11.6	54.4	-179.24	-71.0	-387.6	1,623.9	1,588.3	35.56	45.666		
9,700.0	9,661.3	8,659.0	8,388.8	11.7	54.4	-179.24	-71.0	-387.6	1,704.0	1,668.3	35.69	47.748		
9,800.0	9,760.7	8,659.0	8,388.8	11.8	54.4	-179.24	-71.0	-387.6	1,786.2	1,750.3	35.83	49.852		
9,900.0	9,860.2	8,659.0	8,388.8	12.0	54.4	-179.24	-71.0	-387.6	1,870.1	1,834.1	35.99	51.967		

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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) - KING TUT FEDERAL #1H - OWB - ACTUAL W													Offset Site Error:	0.0 usft
Survey Program: 211-MWD, 4639-MWD, 7802-MWD													Offset Well Error:	2.0 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	
10,000.0	9,959.6	8,659.0	8,388.8	12.1	54.4	-179.24	-71.0	-387.6	1,955.5	1,919.3	36.16	54.085		

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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) - KING TUT FEDERAL #2H - OWB - ACTUAL W												Offset Site Error:	0.0 usft
Survey Program: 100- VES GyroFlex, 7835-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	2.1	2.1	3.0	3.0	59.30	526.3	886.5	1,031.0				
100.0	100.0	104.7	104.7	3.0	3.0	59.31	526.2	886.4	1,030.8	1,024.8	6.00	171.782	
200.0	200.0	205.5	205.5	3.0	3.0	59.32	525.9	886.2	1,030.5	1,024.5	6.01	171.483	
300.0	300.0	305.4	305.4	3.0	3.0	59.31	525.8	885.9	1,030.2	1,024.2	6.03	170.925	
400.0	400.0	407.7	407.7	3.0	3.0	59.30	525.7	885.5	1,029.8	1,023.7	6.06	170.061	
500.0	500.0	513.4	513.4	3.1	3.1	59.29	525.4	884.6	1,028.9	1,022.8	6.10	168.795	
600.0	600.0	617.0	617.0	3.1	3.1	59.28	524.9	883.3	1,027.6	1,021.5	6.15	167.192	
700.0	700.0	716.8	716.8	3.1	3.2	59.26	524.4	881.9	1,026.1	1,019.9	6.21	165.364	
800.0	800.0	814.2	814.1	3.2	3.2	59.25	523.9	880.7	1,024.8	1,018.5	6.27	163.373	
900.0	900.0	908.4	908.4	3.2	3.3	59.25	523.5	879.9	1,023.9	1,017.6	6.35	161.324	
1,000.0	1,000.0	1,007.2	1,007.1	3.2	3.3	59.25	523.3	879.4	1,023.4	1,016.9	6.43	159.124	
1,100.0	1,100.0	1,105.7	1,105.7	3.3	3.4	59.25	522.9	879.1	1,022.9	1,016.4	6.52	156.906	
1,154.2	1,154.2	1,156.3	1,156.2	3.3	3.4	59.26	522.8	879.1	1,022.8	1,016.3	6.54	156.367	
1,200.0	1,200.0	1,200.0	1,200.0	3.4	3.4	59.26	522.9	879.1	1,022.9	1,016.3	6.56	155.921	
1,300.0	1,300.0	1,303.0	1,303.0	3.4	3.4	59.27	522.8	879.3	1,023.0	1,016.4	6.59	155.281	
1,321.0	1,321.0	1,323.1	1,323.0	3.4	3.4	59.27	522.7	879.4	1,023.0	1,016.4	6.60	155.099	
1,400.0	1,400.0	1,400.0	1,400.0	3.5	3.4	59.29	522.5	879.6	1,023.1	1,016.5	6.63	154.417	
1,500.0	1,500.0	1,495.1	1,495.1	3.5	3.4	59.27	523.1	879.8	1,023.6	1,017.0	6.65	153.970	
1,600.0	1,600.0	1,612.7	1,612.6	3.6	3.4	59.18	524.3	878.9	1,023.4	1,016.7	6.72	152.393	
1,700.0	1,700.0	1,713.0	1,712.9	3.7	3.5	59.16	524.0	877.7	1,022.3	1,015.4	6.81	150.009	
1,779.3	1,779.3	1,781.4	1,781.3	3.8	3.5	59.19	523.4	877.6	1,021.8	1,015.0	6.88	148.610	
1,800.0	1,800.0	1,800.0	1,799.9	3.8	3.5	59.20	523.3	877.7	1,021.9	1,015.0	6.89	148.258	
1,900.0	1,900.0	1,892.2	1,892.1	3.9	3.5	59.23	523.1	878.5	1,022.5	1,015.6	6.93	147.593	
2,000.0	2,000.0	1,995.7	1,995.6	3.9	3.5	59.22	523.7	879.1	1,023.3	1,016.4	6.96	147.003	
2,100.0	2,100.0	2,108.9	2,108.8	4.0	3.5	59.15	524.7	878.5	1,023.3	1,016.2	7.04	145.366	
2,200.0	2,200.0	2,206.5	2,206.4	4.1	3.6	59.12	524.8	877.8	1,022.7	1,015.6	7.15	143.015	
2,300.0	2,300.0	2,300.0	2,299.9	4.2	3.7	59.13	524.5	877.5	1,022.3	1,015.1	7.27	140.540	
2,329.6	2,329.6	2,331.7	2,331.6	4.2	3.7	59.13	524.5	877.5	1,022.3	1,015.0	7.30	140.070	
2,400.0	2,400.0	2,394.6	2,394.5	4.3	3.7	59.14	524.5	877.7	1,022.5	1,015.2	7.35	139.074	
2,500.0	2,500.0	2,493.1	2,493.0	4.4	3.7	59.13	525.1	878.4	1,023.4	1,016.0	7.39	138.445	
2,600.0	2,600.0	2,598.2	2,598.1	4.5	3.7	-18.66	526.1	878.5	1,022.4	1,014.9	7.46	137.049	
2,700.0	2,699.8	2,705.4	2,705.3	4.5	3.7	-18.86	527.0	878.0	1,017.4	1,009.8	7.57	134.334	
2,801.5	2,800.9	2,811.0	2,810.9	4.6	3.8	-19.11	527.0	877.2	1,008.4	1,000.7	7.72	130.581	
2,900.0	2,898.9	2,905.0	2,904.9	4.6	3.9	-19.27	526.4	876.9	998.0	990.2	7.87	126.818	
3,000.0	2,998.3	3,000.0	2,999.9	4.7	3.9	-19.43	525.9	877.1	988.0	980.0	8.00	123.520	
3,100.0	3,097.8	3,097.7	3,097.6	4.7	3.9	-19.60	525.4	877.5	978.2	970.1	8.11	120.637	
3,200.0	3,197.2	3,193.1	3,192.9	4.8	3.9	-19.77	525.2	878.2	968.7	960.5	8.21	118.040	
3,300.0	3,296.7	3,287.0	3,286.8	4.8	3.9	-19.96	525.6	878.9	959.8	951.5	8.30	115.644	
3,400.0	3,396.1	3,398.9	3,398.7	4.9	4.0	-20.26	526.8	879.1	950.6	942.2	8.42	112.946	
3,500.0	3,495.6	3,501.9	3,501.7	5.0	4.0	-20.54	527.4	878.5	940.5	931.9	8.57	109.734	
3,600.0	3,595.0	3,604.6	3,604.4	5.1	4.1	-20.79	527.1	877.8	930.0	921.3	8.75	106.323	
3,700.0	3,694.5	3,700.0	3,699.9	5.1	4.2	-20.98	526.4	877.6	919.6	910.7	8.92	103.154	
3,800.0	3,793.9	3,788.1	3,788.0	5.2	4.2	-21.16	526.2	878.0	910.1	901.0	9.04	100.675	
3,900.0	3,893.4	3,887.6	3,887.5	5.3	4.2	-21.42	526.9	878.7	901.2	892.1	9.15	98.498	
4,000.0	3,992.8	3,996.2	3,996.0	5.4	4.2	-21.73	527.8	878.7	891.9	882.6	9.29	96.022	
4,100.0	4,092.3	4,097.0	4,096.8	5.4	4.3	-22.01	527.9	878.3	881.9	872.4	9.46	93.205	
4,200.0	4,191.7	4,194.8	4,194.7	5.5	4.4	-22.25	527.7	878.2	871.9	862.3	9.64	90.494	
4,300.0	4,291.2	4,292.2	4,292.1	5.6	4.4	-22.47	527.1	878.6	862.2	852.4	9.79	88.090	
4,400.0	4,390.6	4,388.4	4,388.2	5.7	4.5	-22.64	526.2	879.6	852.8	842.9	9.93	85.890	
4,500.0	4,490.0	4,489.4	4,489.3	5.8	4.5	-22.83	525.4	880.7	843.6	833.5	10.07	83.764	
4,600.0	4,589.5	4,590.0	4,589.9	5.9	4.5	-23.05	524.8	881.5	834.2	824.0	10.22	81.652	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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) - KING TUT FEDERAL #2H - OWB - ACTUAL W												Offset Site Error:	0.0 usft
Survey Program: 100- VES GyroFlex, 7835-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	
4,700.0	4,688.9	4,689.7	4,689.5	6.0	4.6	-23.29	524.3	882.0	824.7	814.3	10.36	79.572	
4,800.0	4,788.4	4,787.9	4,787.7	6.1	4.6	-23.52	523.8	882.7	815.3	804.8	10.51	77.558	
4,900.0	4,887.8	4,887.1	4,887.0	6.2	4.7	-23.73	523.0	883.7	806.0	795.3	10.66	75.597	
5,000.0	4,987.3	4,987.4	4,987.2	6.3	4.8	-23.92	521.9	884.9	796.7	785.9	10.82	73.657	
5,100.0	5,086.7	5,087.8	5,087.6	6.4	4.8	-24.12	520.8	885.9	787.3	776.3	10.97	71.737	
5,200.0	5,186.2	5,187.4	5,187.2	6.5	4.9	-24.35	520.0	886.7	777.8	766.7	11.13	69.860	
5,300.0	5,285.6	5,285.4	5,285.2	6.6	5.0	-24.62	519.5	887.3	768.5	757.2	11.29	68.065	
5,400.0	5,385.1	5,386.6	5,386.3	6.7	5.1	-24.89	519.1	888.0	759.2	747.7	11.45	66.299	
5,500.0	5,484.5	5,487.4	5,487.2	6.8	5.1	-25.19	518.5	888.3	749.6	738.0	11.62	64.503	
5,600.0	5,584.0	5,586.6	5,586.4	6.9	5.2	-25.50	518.1	888.6	740.1	728.3	11.80	62.740	
5,700.0	5,683.4	5,686.8	5,686.6	7.0	5.3	-25.82	517.7	888.8	730.5	718.5	11.97	61.013	
5,800.0	5,782.9	5,786.3	5,786.0	7.1	5.4	-26.14	517.2	888.9	720.9	708.7	12.16	59.292	
5,900.0	5,882.3	5,888.0	5,887.8	7.2	5.5	-26.50	516.8	888.9	711.1	698.8	12.36	57.546	
6,000.0	5,981.7	5,987.8	5,987.6	7.3	5.6	-26.86	516.2	888.7	701.2	688.6	12.56	55.822	
6,100.0	6,081.2	6,088.6	6,088.4	7.4	5.8	-27.23	515.6	888.3	691.2	678.4	12.77	54.113	
6,200.0	6,180.6	6,188.4	6,188.1	7.5	5.8	-27.63	515.0	887.8	681.1	668.1	12.99	52.445	
6,300.0	6,280.1	6,290.2	6,289.9	7.6	5.9	-28.06	514.4	887.0	670.8	657.6	13.21	50.766	
6,400.0	6,379.5	6,391.9	6,391.7	7.7	6.0	-28.52	513.8	885.8	660.2	646.8	13.44	49.114	
6,500.0	6,479.0	6,491.3	6,491.0	7.9	6.1	-29.01	513.1	884.3	649.4	635.8	13.67	47.515	
6,600.0	6,578.4	6,591.7	6,591.4	8.0	6.2	-29.52	512.5	882.7	638.6	624.7	13.90	45.952	
6,700.0	6,677.9	6,693.9	6,693.6	8.1	6.3	-30.07	511.6	880.8	627.6	613.5	14.14	44.395	
6,800.0	6,777.3	6,794.5	6,794.1	8.2	6.4	-30.61	510.5	878.7	616.2	601.8	14.37	42.869	
6,900.0	6,876.8	6,892.9	6,892.6	8.3	6.5	-31.16	509.3	876.7	604.8	590.2	14.61	41.405	
7,000.0	6,976.2	6,990.3	6,989.9	8.4	6.6	-31.72	508.2	874.8	593.7	578.9	14.84	40.009	
7,100.0	7,075.7	7,089.7	7,089.3	8.5	6.7	-32.28	507.0	873.3	582.9	567.8	15.08	38.648	
7,200.0	7,175.1	7,191.0	7,190.5	8.7	6.8	-32.88	505.6	871.5	571.9	556.5	15.33	37.301	
7,300.0	7,274.6	7,293.0	7,292.5	8.8	6.9	-33.52	504.0	869.4	560.5	544.9	15.59	35.961	
7,400.0	7,374.0	7,391.1	7,390.6	8.9	7.0	-34.16	502.4	867.2	549.0	533.1	15.83	34.687	
7,500.0	7,473.4	7,489.9	7,489.4	9.0	7.2	-34.83	500.8	865.1	537.7	521.6	16.07	33.457	
7,600.0	7,572.9	7,587.0	7,586.4	9.1	7.3	-35.49	499.2	863.4	526.7	510.4	16.31	32.292	
7,700.0	7,672.3	7,686.1	7,685.5	9.2	7.4	-36.16	497.6	862.0	516.0	499.4	16.56	31.163	
7,800.0	7,771.8	7,792.1	7,791.5	9.4	7.5	-36.91	495.7	860.2	505.2	488.3	16.85	29.983	
7,900.0	7,871.2	8,028.3	8,020.4	9.5	8.3	-35.47	445.4	850.3	475.7	457.1	18.56	25.623	
8,000.0	7,970.7	8,171.5	8,142.6	9.6	8.8	-28.69	372.0	854.0	430.8	410.9	19.82	21.736	
8,100.0	8,070.1	8,265.0	8,212.4	9.7	9.1	-20.49	310.5	863.0	384.0	364.1	19.87	19.325	
8,200.0	8,169.6	8,353.2	8,270.3	9.8	9.4	-9.76	244.8	873.1	341.2	321.7	19.53	17.473	
8,300.0	8,269.0	8,423.5	8,311.0	10.0	9.7	0.71	187.9	880.2	309.3	290.5	18.79	16.459	
8,399.0	8,367.5	8,475.8	8,338.6	10.1	10.0	9.26	143.9	885.4	297.4	278.9	18.54	16.045 CC	
8,400.0	8,368.5	8,476.3	8,338.9	10.1	10.0	9.35	143.5	885.4	297.4	278.9	18.54	16.041 ES	
8,500.0	8,467.9	8,521.1	8,360.1	10.2	10.3	16.98	104.2	889.5	310.5	290.7	19.74	15.728 SF	
8,600.0	8,567.4	8,557.0	8,375.2	10.3	10.6	23.07	71.8	892.5	347.7	325.8	21.94	15.846	
8,700.0	8,666.8	8,577.2	8,382.8	10.5	10.8	26.44	53.2	894.2	404.1	379.8	24.24	16.669	
8,800.0	8,766.3	8,588.0	8,386.5	10.6	10.9	28.22	43.1	895.3	473.7	447.6	26.09	18.158	
8,900.0	8,865.7	8,615.0	8,394.7	10.7	11.2	32.51	17.5	898.0	551.8	524.5	27.31	20.207	
9,000.0	8,965.2	8,615.0	8,394.7	10.8	11.2	32.51	17.5	898.0	635.5	607.1	28.40	22.376	
9,100.0	9,064.6	8,632.2	8,399.2	11.0	11.4	35.12	1.0	899.9	722.9	693.7	29.17	24.781	
9,200.0	9,164.0	8,647.0	8,402.6	11.1	11.5	37.28	-13.3	901.5	813.0	783.1	29.82	27.260	
9,300.0	9,263.5	8,647.0	8,402.6	11.2	11.5	37.28	-13.3	901.5	904.8	874.4	30.42	29.747	
9,400.0	9,362.9	8,660.2	8,405.5	11.3	11.7	39.13	-26.1	903.1	998.1	967.2	30.91	32.285	
9,500.0	9,462.4	8,668.2	8,407.1	11.5	11.8	40.21	-33.9	904.0	1,092.4	1,061.0	31.38	34.812	
9,600.0	9,561.8	8,678.0	8,408.9	11.6	11.9	41.51	-43.4	905.2	1,187.5	1,155.7	31.81	37.328	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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) - KING TUT FEDERAL #2H - OWB - ACTUAL W													Offset Site Error:	0.0 usft
Survey Program: 100- VES GyroFlex, 7835-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		
9,700.0	9,661.3	8,678.0	8,408.9	11.7	11.9	41.51	-43.4	905.2	1,283.3	1,251.1	32.23	39.816		
9,800.0	9,760.7	8,691.7	8,411.3	11.8	12.1	43.26	-56.8	906.8	1,379.6	1,346.9	32.62	42.289		
9,900.0	9,860.2	8,699.4	8,412.6	12.0	12.1	44.20	-64.4	907.7	1,476.2	1,443.2	33.01	44.725		
10,000.0	9,959.6	8,710.0	8,414.3	12.1	12.3	45.47	-74.8	908.9	1,573.3	1,539.9	33.38	47.126		
10,100.0	10,059.1	8,710.0	8,414.3	12.2	12.3	45.47	-74.8	908.9	1,670.6	1,636.8	33.76	49.490		
10,200.0	10,158.5	8,724.1	8,416.5	12.3	12.5	47.10	-88.6	910.5	1,768.1	1,734.0	34.12	51.818		
10,300.0	10,258.0	8,733.0	8,417.9	12.5	12.6	48.09	-97.3	911.5	1,865.8	1,831.3	34.49	54.104		
10,400.0	10,357.4	8,741.0	8,419.1	12.6	12.7	48.96	-105.2	912.3	1,963.7	1,928.8	34.85	56.349		

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #705H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-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
0.0	0.0	0.0	0.0	3.0	3.0	-90.38	-0.2	-30.0	30.0				
100.0	100.0	100.0	100.0	3.0	3.0	-90.38	-0.2	-30.0	30.0	24.0	6.00	4.998	
200.0	200.0	200.0	200.0	3.0	3.0	-90.38	-0.2	-30.0	30.0	24.0	6.04	4.966	
300.0	300.0	300.0	300.0	3.0	3.1	-90.38	-0.2	-30.0	30.0	23.9	6.12	4.900	
400.0	400.0	400.0	400.0	3.0	3.2	-90.38	-0.2	-30.0	30.0	23.8	6.24	4.805	
500.0	500.0	500.0	500.0	3.1	3.4	-90.38	-0.2	-30.0	30.0	23.6	6.40	4.688	
600.0	600.0	600.0	600.0	3.1	3.6	-90.38	-0.2	-30.0	30.0	23.4	6.59	4.554	
700.0	700.0	700.0	700.0	3.1	3.8	-90.38	-0.2	-30.0	30.0	23.2	6.80	4.410	
800.0	800.0	800.0	800.0	3.2	4.0	-90.38	-0.2	-30.0	30.0	23.0	7.04	4.260	
900.0	900.0	900.0	900.0	3.2	4.2	-90.38	-0.2	-30.0	30.0	22.7	7.30	4.110	
1,000.0	1,000.0	1,000.0	1,000.0	3.2	4.5	-90.38	-0.2	-30.0	30.0	22.4	7.57	3.961	
1,100.0	1,100.0	1,100.0	1,100.0	3.3	4.8	-90.38	-0.2	-30.0	30.0	22.1	7.86	3.815	
1,200.0	1,200.0	1,200.0	1,200.0	3.4	5.1	-90.38	-0.2	-30.0	30.0	21.8	8.16	3.675	
1,300.0	1,300.0	1,300.0	1,300.0	3.4	5.4	-90.38	-0.2	-30.0	30.0	21.5	8.48	3.539	
1,400.0	1,400.0	1,400.0	1,400.0	3.5	5.7	-90.38	-0.2	-30.0	30.0	21.2	8.80	3.410	
1,500.0	1,500.0	1,500.0	1,500.0	3.5	6.0	-90.38	-0.2	-30.0	30.0	20.9	9.12	3.288	
1,600.0	1,600.0	1,600.0	1,600.0	3.6	6.3	-90.38	-0.2	-30.0	30.0	20.5	9.46	3.171	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	6.6	-90.38	-0.2	-30.0	30.0	20.2	9.80	3.061	
1,800.0	1,800.0	1,800.0	1,800.0	3.8	6.9	-90.38	-0.2	-30.0	30.0	19.9	10.15	2.956	
1,900.0	1,900.0	1,900.0	1,900.0	3.9	7.2	-90.38	-0.2	-30.0	30.0	19.5	10.50	2.857	
2,000.0	2,000.0	2,000.0	2,000.0	3.9	7.6	-90.38	-0.2	-30.0	30.0	19.1	10.86	2.764	
2,100.0	2,100.0	2,100.0	2,100.0	4.0	7.9	-90.38	-0.2	-30.0	30.0	18.8	11.21	2.675	
2,200.0	2,200.0	2,200.0	2,200.0	4.1	8.2	-90.38	-0.2	-30.0	30.0	18.4	11.58	2.591	
2,300.0	2,300.0	2,300.0	2,300.0	4.2	8.6	-90.38	-0.2	-30.0	30.0	18.1	11.94	2.512	
2,400.0	2,400.0	2,400.0	2,400.0	4.3	8.9	-90.38	-0.2	-30.0	30.0	17.7	12.31	2.436	
2,500.0	2,500.0	2,500.0	2,500.0	4.4	9.2	-90.38	-0.2	-30.0	30.0	17.3	12.69	2.365 CC, ES	
2,600.0	2,600.0	2,600.7	2,600.7	4.5	9.6	-166.26	1.1	-28.9	30.6	17.5	13.06	2.342 SF	
2,700.0	2,699.8	2,701.3	2,701.1	4.5	9.9	-161.17	5.2	-25.4	32.5	19.0	13.43	2.418	
2,801.5	2,800.9	2,803.0	2,802.5	4.6	10.3	-154.09	11.9	-19.7	36.3	22.4	13.83	2.622	
2,900.0	2,898.9	2,901.4	2,900.4	4.6	10.6	-148.68	19.1	-13.6	41.5	27.3	14.23	2.917	
3,000.0	2,998.3	3,001.1	2,999.7	4.7	10.9	-144.46	26.4	-7.4	47.1	32.5	14.63	3.221	
3,100.0	3,097.8	3,100.9	3,099.0	4.7	11.3	-141.15	33.7	-1.2	52.9	37.9	15.02	3.522	
3,200.0	3,197.2	3,200.7	3,198.3	4.8	11.6	-138.50	40.9	5.0	58.9	43.5	15.42	3.818	
3,300.0	3,296.7	3,300.5	3,297.7	4.8	12.0	-136.34	48.2	11.2	64.9	49.1	15.81	4.106	
3,400.0	3,396.1	3,400.3	3,397.0	4.9	12.3	-134.55	55.5	17.4	71.1	54.9	16.21	4.385	
3,500.0	3,495.6	3,500.1	3,496.3	5.0	12.7	-133.05	62.8	23.5	77.3	60.7	16.60	4.654	
3,600.0	3,595.0	3,599.9	3,595.7	5.1	13.0	-131.77	70.1	29.7	83.5	66.5	16.99	4.914	
3,700.0	3,694.5	3,699.7	3,695.0	5.1	13.4	-130.66	77.4	35.9	89.8	72.4	17.39	5.163	
3,800.0	3,793.9	3,799.5	3,794.3	5.2	13.7	-129.71	84.7	42.1	96.1	78.3	17.78	5.403	
3,900.0	3,893.4	3,899.3	3,893.7	5.3	14.0	-128.87	92.0	48.3	102.4	84.2	18.18	5.633	
4,000.0	3,992.8	3,999.0	3,993.0	5.4	14.4	-128.13	99.2	54.5	108.7	90.2	18.57	5.854	
4,100.0	4,092.3	4,098.8	4,092.3	5.4	14.8	-127.47	106.5	60.7	115.1	96.1	18.97	6.066	
4,200.0	4,191.7	4,198.6	4,191.6	5.5	15.1	-126.88	113.8	66.9	121.5	102.1	19.37	6.269	
4,300.0	4,291.2	4,298.4	4,291.0	5.6	15.5	-126.34	121.1	73.1	127.8	108.1	19.78	6.464	
4,400.0	4,390.6	4,398.2	4,390.3	5.7	15.8	-125.86	128.4	79.3	134.2	114.1	20.18	6.651	
4,500.0	4,490.0	4,498.0	4,489.6	5.8	16.2	-125.43	135.7	85.5	140.6	120.1	20.59	6.831	
4,600.0	4,589.5	4,597.8	4,589.0	5.9	16.5	-125.03	143.0	91.7	147.1	126.1	21.00	7.003	
4,700.0	4,688.9	4,697.6	4,688.3	6.0	16.9	-124.66	150.3	97.9	153.5	132.1	21.41	7.168	
4,800.0	4,788.4	4,797.4	4,787.6	6.1	17.2	-124.32	157.5	104.1	159.9	138.1	21.82	7.327	
4,900.0	4,887.8	4,897.1	4,887.0	6.2	17.6	-124.01	164.8	110.3	166.3	144.1	22.24	7.479	
5,000.0	4,987.3	4,996.9	4,986.3	6.3	17.9	-123.73	172.1	116.5	172.8	150.1	22.66	7.625	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #705H - 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		
5,100.0	5,086.7	5,096.7	5,085.6	6.4	18.3	-123.46	179.4	122.7	179.2	156.1	23.07	7.766		
5,200.0	5,186.2	5,196.5	5,184.9	6.5	18.6	-123.21	186.7	128.8	185.6	162.1	23.50	7.901		
5,300.0	5,285.6	5,296.3	5,284.3	6.6	19.0	-122.98	194.0	135.0	192.1	168.2	23.92	8.030		
5,400.0	5,385.1	5,396.1	5,383.6	6.7	19.4	-122.76	201.3	141.2	198.5	174.2	24.34	8.155		
5,500.0	5,484.5	5,495.9	5,482.9	6.8	19.7	-122.56	208.6	147.4	205.0	180.2	24.77	8.275		
5,600.0	5,584.0	5,595.7	5,582.3	6.9	20.1	-122.37	215.8	153.6	211.4	186.2	25.20	8.390		
5,700.0	5,683.4	5,695.5	5,681.6	7.0	20.4	-122.19	223.1	159.8	217.9	192.2	25.63	8.501		
5,800.0	5,782.9	5,795.2	5,780.9	7.1	20.8	-122.02	230.4	166.0	224.3	198.3	26.06	8.608		
5,900.0	5,882.3	5,895.0	5,880.3	7.2	21.1	-121.86	237.7	172.2	230.8	204.3	26.50	8.710		
6,000.0	5,981.7	5,994.8	5,979.6	7.3	21.5	-121.71	245.0	178.4	237.2	210.3	26.93	8.809		
6,100.0	6,081.2	6,094.6	6,078.9	7.4	21.9	-121.57	252.3	184.6	243.7	216.3	27.37	8.905		
6,200.0	6,180.6	6,194.4	6,178.2	7.5	22.2	-121.43	259.6	190.8	250.2	222.4	27.81	8.996		
6,300.0	6,280.1	6,294.2	6,277.6	7.6	22.6	-121.30	266.9	197.0	256.6	228.4	28.25	9.085		
6,400.0	6,379.5	6,394.0	6,376.9	7.7	22.9	-121.18	274.1	203.2	263.1	234.4	28.69	9.170		
6,500.0	6,479.0	6,493.8	6,476.2	7.9	23.3	-121.07	281.4	209.4	269.6	240.4	29.13	9.252		
6,600.0	6,578.4	6,593.6	6,575.6	8.0	23.6	-120.96	288.7	215.6	276.0	246.4	29.58	9.332		
6,700.0	6,677.9	6,693.4	6,674.9	8.1	24.0	-120.85	296.0	221.8	282.5	252.5	30.03	9.408		
6,800.0	6,777.3	6,793.1	6,774.2	8.2	24.4	-120.75	303.3	228.0	289.0	258.5	30.48	9.482		
6,900.0	6,876.8	6,892.9	6,873.5	8.3	24.7	-120.65	310.6	234.1	295.4	264.5	30.93	9.553		
7,000.0	6,976.2	6,992.7	6,972.9	8.4	25.1	-120.56	317.9	240.3	301.9	270.5	31.38	9.622		
7,100.0	7,075.7	7,092.5	7,072.2	8.5	25.4	-120.47	325.2	246.5	308.4	276.5	31.83	9.688		
7,200.0	7,175.1	7,192.3	7,171.5	8.7	25.8	-120.39	332.4	252.7	314.8	282.6	32.28	9.753		
7,300.0	7,274.6	7,292.1	7,270.9	8.8	26.2	-120.30	339.7	258.9	321.3	288.6	32.74	9.815		
7,400.0	7,374.0	7,391.9	7,370.2	8.9	26.5	-120.23	347.0	265.1	327.8	294.6	33.20	9.875		
7,500.0	7,473.4	7,491.7	7,469.5	9.0	26.9	-120.15	354.3	271.3	334.3	300.6	33.65	9.932		
7,600.0	7,572.9	7,591.5	7,568.9	9.1	27.2	-120.08	361.6	277.5	340.7	306.6	34.11	9.989		
7,700.0	7,672.3	7,691.2	7,668.2	9.2	27.6	-120.01	368.9	283.7	347.2	312.6	34.57	10.043		
7,800.0	7,771.8	7,791.0	7,767.5	9.4	28.0	-119.94	376.2	289.9	353.7	318.7	35.04	10.095		
7,900.0	7,871.2	7,890.8	7,866.8	9.5	28.3	-119.88	383.5	296.1	360.2	324.7	35.50	10.146		
8,000.0	7,970.7	7,990.6	7,966.2	9.6	28.7	-119.81	390.8	302.3	366.6	330.7	35.96	10.195		
8,100.0	8,070.1	8,090.4	8,065.5	9.7	29.0	-119.75	398.0	308.5	373.1	336.7	36.43	10.242		
8,200.0	8,169.6	8,190.2	8,164.8	9.8	29.4	-119.69	405.3	314.7	379.6	342.7	36.90	10.288		
8,300.0	8,269.0	8,290.0	8,264.2	10.0	29.8	-119.64	412.6	320.9	386.1	348.7	37.36	10.333		
8,400.0	8,368.5	8,389.8	8,363.5	10.1	30.1	-119.58	419.9	327.1	392.5	354.7	37.83	10.376		
8,500.0	8,467.9	8,489.6	8,462.8	10.2	30.5	-119.53	427.2	333.3	399.0	360.7	38.30	10.418		
8,600.0	8,567.4	8,589.3	8,562.2	10.3	30.8	-119.48	434.5	339.4	405.5	366.7	38.77	10.458		
8,700.0	8,666.8	8,689.1	8,661.5	10.5	31.2	-119.43	441.8	345.6	412.0	372.7	39.25	10.498		
8,800.0	8,766.3	8,788.9	8,760.8	10.6	31.6	-119.38	449.1	351.8	418.5	378.7	39.72	10.536		
8,900.0	8,865.7	8,888.7	8,860.1	10.7	31.9	-119.34	456.3	358.0	424.9	384.7	40.19	10.573		
9,000.0	8,965.2	8,988.5	8,959.5	10.8	32.3	-119.29	463.6	364.2	431.4	390.7	40.67	10.608		
9,100.0	9,064.6	9,088.3	9,058.8	11.0	32.6	-119.25	470.9	370.4	437.9	396.8	41.14	10.643		
9,200.0	9,164.0	9,188.1	9,158.1	11.1	33.0	-119.20	478.2	376.6	444.4	402.8	41.62	10.677		
9,300.0	9,263.5	9,287.9	9,257.5	11.2	33.4	-119.16	485.5	382.8	450.9	408.8	42.10	10.709		
9,400.0	9,362.9	9,387.7	9,356.8	11.3	33.7	-119.12	492.8	389.0	457.3	414.8	42.58	10.741		
9,500.0	9,462.4	9,487.5	9,456.1	11.5	34.1	-119.08	500.1	395.2	463.8	420.8	43.06	10.771		
9,600.0	9,561.8	9,587.2	9,555.5	11.6	34.4	-119.05	507.4	401.4	470.3	426.8	43.54	10.801		
9,700.0	9,661.3	9,687.0	9,654.8	11.7	34.8	-119.01	514.6	407.6	476.8	432.8	44.02	10.830		
9,800.0	9,760.7	9,786.8	9,754.1	11.8	35.2	-118.97	521.9	413.8	483.3	438.8	44.51	10.858		
9,900.0	9,860.2	9,886.6	9,853.4	12.0	35.5	-118.94	529.2	420.0	489.7	444.8	44.99	10.885		
10,000.0	9,959.6	9,986.4	9,952.8	12.1	35.9	-118.91	536.5	426.2	496.2	450.7	45.48	10.912		
10,100.0	10,059.1	10,086.2	10,052.1	12.2	36.3	-118.87	543.8	432.4	502.7	456.7	45.96	10.937		

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #705H - 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			
10,200.0	10,158.5	10,186.0	10,151.4	12.3	36.6	-118.84	551.1	438.6	509.2	462.7	46.45	10.962			
10,300.0	10,258.0	10,285.8	10,250.8	12.5	37.0	-118.81	558.4	444.7	515.7	468.7	46.94	10.987			
10,400.0	10,357.4	10,385.6	10,350.1	12.6	37.3	-118.78	565.7	450.9	522.2	474.7	47.42	11.010			
10,500.0	10,456.9	10,485.3	10,449.4	12.7	37.7	-118.75	572.9	457.1	528.6	480.7	47.91	11.033			
10,600.0	10,556.3	10,585.1	10,548.8	12.8	38.1	-118.72	580.2	463.3	535.1	486.7	48.40	11.055			
10,700.0	10,655.7	10,684.9	10,648.1	13.0	38.4	-118.69	587.5	469.5	541.6	492.7	48.90	11.077			
10,800.0	10,755.2	10,785.4	10,748.1	13.1	38.8	-118.68	594.7	475.6	548.1	498.7	49.39	11.097			
10,900.0	10,854.6	10,886.6	10,849.0	13.2	39.2	-118.83	600.8	480.8	554.3	504.4	49.88	11.113			
11,000.0	10,954.1	10,987.8	10,950.0	13.4	39.5	-119.15	605.6	484.9	560.3	509.9	50.37	11.124			
11,100.0	11,053.5	11,088.8	11,050.9	13.5	39.9	-119.65	608.9	487.7	566.1	515.2	50.85	11.131			
11,200.0	11,153.0	11,189.7	11,151.8	13.6	40.2	-120.31	610.9	489.4	571.7	520.3	51.34	11.135			
11,300.0	11,252.4	11,290.4	11,252.4	13.8	40.6	-121.13	611.6	490.0	577.1	525.3	51.82	11.137			
11,400.0	11,351.9	11,389.8	11,351.9	13.9	40.9	-122.01	611.6	490.0	582.7	530.4	52.31	11.140			
11,500.0	11,451.3	11,489.3	11,451.3	14.0	41.3	-122.88	611.6	490.0	588.3	535.5	52.79	11.144			
11,594.8	11,545.6	11,704.5	11,664.6	14.1	42.0	-126.12	591.2	490.1	591.8	538.5	53.38	11.086			
11,600.0	11,550.8	11,739.2	11,697.3	14.2	42.1	-132.55	580.0	490.2	591.0	537.6	53.39	11.070			
11,625.0	11,575.6	11,880.1	11,819.7	14.2	42.4	-158.41	511.0	490.6	584.9	531.2	53.75	10.883			
11,650.0	11,600.3	11,966.4	11,882.5	14.2	42.5	-175.20	452.1	491.0	576.7	522.8	53.96	10.689			
11,675.0	11,624.7	12,041.8	11,928.1	14.2	42.6	172.47	392.1	491.3	568.0	513.8	54.16	10.487			
11,700.0	11,649.0	12,094.1	11,953.9	14.2	42.6	163.99	346.7	491.6	559.6	505.2	54.36	10.295			
11,725.0	11,672.9	12,154.5	11,977.4	14.2	42.7	155.93	291.2	492.0	551.9	497.2	54.61	10.105			
11,750.0	11,696.4	12,190.3	11,987.9	14.2	42.7	150.76	256.9	492.2	545.2	490.4	54.82	9.946			
11,775.0	11,719.4	12,220.7	11,994.8	14.2	42.7	146.53	227.3	492.4	539.8	484.8	55.00	9.814			
11,800.0	11,741.9	12,247.4	11,999.3	14.2	42.7	142.93	201.0	492.5	535.7	480.5	55.16	9.713			
11,825.0	11,763.9	12,271.2	12,002.0	14.2	42.8	139.75	177.3	492.7	533.1	477.8	55.28	9.643			
11,850.0	11,785.1	12,293.0	12,003.5	14.2	42.8	136.84	155.6	492.8	532.0	476.6	55.39	9.604			
11,856.1	11,790.3	12,298.1	12,003.7	14.2	42.8	136.16	150.5	492.8	531.9	476.5	55.41	9.599			
11,875.0	11,805.7	12,313.2	12,004.0	14.2	42.8	134.11	135.4	492.9	532.3	476.9	55.47	9.596			
11,900.0	11,825.6	12,325.7	12,004.0	14.3	42.8	132.08	122.9	493.0	534.3	478.8	55.51	9.625			
11,925.0	11,844.6	12,338.5	12,003.9	14.3	42.8	130.01	110.1	493.1	537.8	482.3	55.55	9.682			
11,950.0	11,862.7	12,352.1	12,003.9	14.3	42.8	127.80	96.5	493.2	542.8	487.2	55.59	9.764			
11,975.0	11,880.0	12,366.5	12,003.9	14.3	42.8	125.46	82.1	493.2	549.1	493.5	55.64	9.869			
12,000.0	11,896.2	12,381.8	12,003.9	14.3	42.8	122.99	66.8	493.3	556.7	501.0	55.71	9.994			
12,025.0	11,911.5	12,397.8	12,003.9	14.4	42.8	120.42	50.8	493.4	565.4	509.6	55.78	10.136			
12,050.0	11,925.7	12,414.6	12,003.9	14.4	42.8	117.75	34.0	493.5	575.1	519.2	55.86	10.294			
12,075.0	11,938.9	12,432.0	12,003.8	14.4	42.8	115.02	16.6	493.6	585.5	529.6	55.96	10.464			
12,100.0	11,950.9	12,450.0	12,003.8	14.5	42.8	112.25	-1.4	493.8	596.7	540.7	56.05	10.646			
12,125.0	11,961.7	12,468.6	12,003.8	14.5	42.8	109.46	-20.0	493.9	608.5	552.3	56.15	10.837			
12,150.0	11,971.4	12,487.8	12,003.8	14.6	42.8	106.70	-39.2	494.0	620.7	564.5	56.24	11.037			
12,175.0	11,979.8	12,507.4	12,003.8	14.6	42.9	103.99	-58.8	494.1	633.3	577.0	56.34	11.242			
12,200.0	11,987.1	12,527.4	12,003.8	14.7	42.9	101.37	-78.8	494.2	646.2	589.7	56.43	11.451			
12,225.0	11,993.0	12,547.8	12,003.7	14.7	42.9	98.85	-99.2	494.4	659.2	602.7	56.52	11.663			
12,250.0	11,997.7	12,568.5	12,003.7	14.8	42.9	96.46	-119.9	494.5	672.3	615.7	56.60	11.878			
12,275.0	12,001.1	12,589.4	12,003.7	14.8	42.9	94.21	-140.8	494.6	685.5	628.9	56.68	12.094			
12,300.0	12,003.2	12,610.6	12,003.7	14.9	42.9	92.12	-162.0	494.7	698.7	641.9	56.76	12.310			
12,325.0	12,004.0	12,631.8	12,003.6	15.0	42.9	90.19	-183.2	494.9	711.8	655.0	56.84	12.524			
12,328.5	12,004.0	12,634.9	12,003.6	15.0	42.9	89.93	-186.3	494.9	713.7	656.8	56.85	12.554			
12,400.0	12,004.0	12,696.7	12,003.6	15.2	43.0	89.93	-248.1	495.3	749.4	692.3	57.07	13.132			
12,500.0	12,003.9	12,786.1	12,003.5	15.5	43.1	89.94	-337.5	495.8	794.2	736.7	57.43	13.828			
12,600.0	12,003.8	12,878.4	12,003.4	15.9	43.1	89.95	-429.8	496.4	832.6	774.7	57.86	14.391			
12,700.0	12,003.6	12,973.2	12,003.3	16.3	43.3	89.96	-524.6	497.0	864.4	806.1	58.34	14.817			

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #705H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR													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)					
12,800.0	12,003.5	13,069.9	12,003.2	16.8	43.4	89.96		-621.3	497.6	889.6	830.8	58.88	15.109	
12,900.0	12,003.4	13,168.2	12,003.1	17.2	43.5	89.97		-719.6	498.2	908.0	848.5	59.47	15.269	
13,000.0	12,003.3	13,267.5	12,003.0	17.7	43.7	89.98		-818.9	498.8	919.5	859.4	60.09	15.301	
13,100.0	12,003.2	13,367.4	12,002.9	18.1	43.8	89.98		-918.8	499.4	924.0	863.2	60.76	15.208	
13,114.8	12,003.2	13,382.2	12,002.9	18.2	43.9	89.98		-933.6	499.5	924.1	863.2	60.86	15.185	
13,200.0	12,003.1	13,467.4	12,002.8	18.6	44.0	89.98		-1,018.8	500.0	924.1	862.6	61.45	15.037	
13,300.0	12,003.0	13,567.4	12,002.7	19.0	44.2	89.98		-1,118.8	500.6	924.1	861.9	62.19	14.858	
13,400.0	12,002.9	13,667.4	12,002.6	19.5	44.4	89.98		-1,218.8	501.2	924.1	861.1	62.97	14.674	
13,500.0	12,002.8	13,767.4	12,002.5	20.1	44.7	89.98		-1,318.8	501.8	924.1	860.3	63.79	14.486	
13,600.0	12,002.7	13,867.4	12,002.4	20.6	44.9	89.98		-1,418.8	502.4	924.1	859.4	64.65	14.294	
13,700.0	12,002.6	13,967.4	12,002.3	21.2	45.2	89.98		-1,518.8	503.1	924.1	858.5	65.53	14.100	
13,800.0	12,002.5	14,067.4	12,002.2	21.8	45.5	89.98		-1,618.8	503.7	924.1	857.6	66.45	13.905	
13,900.0	12,002.4	14,167.4	12,002.1	22.4	45.8	89.98		-1,718.8	504.3	924.1	856.7	67.40	13.709	
14,000.0	12,002.3	14,267.4	12,002.0	23.0	46.1	89.98		-1,818.8	504.9	924.1	855.7	68.38	13.513	
14,100.0	12,002.2	14,367.4	12,001.9	23.7	46.4	89.98		-1,918.8	505.5	924.1	854.7	69.39	13.318	
14,200.0	12,002.1	14,467.4	12,001.8	24.4	46.7	89.98		-2,018.8	506.1	924.1	853.6	70.42	13.123	
14,300.0	12,002.0	14,567.4	12,001.7	25.0	47.1	89.98		-2,118.8	506.7	924.1	852.6	71.47	12.929	
14,400.0	12,001.9	14,667.4	12,001.6	25.7	47.4	89.98		-2,218.8	507.3	924.1	851.5	72.55	12.737	
14,500.0	12,001.8	14,767.4	12,001.5	26.4	47.8	89.98		-2,318.8	508.0	924.1	850.4	73.65	12.547	
14,600.0	12,001.7	14,867.4	12,001.4	27.1	48.2	89.98		-2,418.8	508.6	924.1	849.3	74.77	12.359	
14,700.0	12,001.6	14,967.4	12,001.3	27.9	48.6	89.98		-2,518.8	509.2	924.1	848.1	75.91	12.174	
14,800.0	12,001.5	15,067.4	12,001.2	28.6	49.0	89.98		-2,618.8	509.8	924.1	847.0	77.07	11.990	
14,900.0	12,001.3	15,167.4	12,001.1	29.3	49.4	89.98		-2,718.8	510.4	924.1	845.8	78.24	11.810	
15,000.0	12,001.2	15,267.4	12,001.0	30.1	49.9	89.98		-2,818.8	511.0	924.1	844.6	79.44	11.633	
15,100.0	12,001.1	15,367.4	12,000.9	30.8	50.3	89.99		-2,918.8	511.6	924.1	843.4	80.65	11.458	
15,200.0	12,001.0	15,467.4	12,000.8	31.6	50.8	89.99		-3,018.8	512.3	924.0	842.2	81.87	11.286	
15,300.0	12,000.9	15,567.4	12,000.7	32.3	51.2	89.99		-3,118.8	512.9	924.0	840.9	83.12	11.118	
15,400.0	12,000.8	15,667.4	12,000.6	33.1	51.7	89.99		-3,218.8	513.5	924.0	839.7	84.37	10.952	
15,500.0	12,000.7	15,767.4	12,000.5	33.9	52.2	89.99		-3,318.8	514.1	924.0	838.4	85.64	10.790	
15,600.0	12,000.6	15,867.4	12,000.4	34.6	52.7	89.99		-3,418.8	514.7	924.0	837.1	86.93	10.630	
15,700.0	12,000.5	15,967.4	12,000.3	35.4	53.2	89.99		-3,518.8	515.3	924.0	835.8	88.22	10.474	
15,800.0	12,000.4	16,067.4	12,000.2	36.2	53.7	89.99		-3,618.8	515.9	924.0	834.5	89.53	10.321	
15,900.0	12,000.3	16,167.4	12,000.1	37.0	54.3	89.99		-3,718.8	516.5	924.0	833.2	90.85	10.171	
16,000.0	12,000.2	16,267.4	12,000.0	37.8	54.8	89.99		-3,818.8	517.2	924.0	831.9	92.18	10.024	
16,100.0	12,000.1	16,367.4	11,999.9	38.6	55.3	89.99		-3,918.8	517.8	924.0	830.5	93.53	9.880	
16,200.0	12,000.0	16,467.4	11,999.8	39.4	55.9	89.99		-4,018.8	518.4	924.0	829.2	94.88	9.739	
16,300.0	11,999.9	16,567.4	11,999.7	40.2	56.4	89.99		-4,118.8	519.0	924.0	827.8	96.25	9.601	
16,400.0	11,999.8	16,667.4	11,999.6	41.0	57.0	89.99		-4,218.7	519.6	924.0	826.4	97.62	9.466	
16,500.0	11,999.7	16,767.4	11,999.5	41.8	57.6	89.99		-4,318.7	520.2	924.0	825.0	99.00	9.333	
16,600.0	11,999.6	16,867.4	11,999.4	42.6	58.1	89.99		-4,418.7	520.8	924.0	823.6	100.40	9.204	
16,700.0	11,999.5	16,967.4	11,999.3	43.4	58.7	89.99		-4,518.7	521.4	924.0	822.2	101.80	9.077	
16,800.0	11,999.4	17,067.4	11,999.2	44.2	59.3	89.99		-4,618.7	522.1	924.0	820.8	103.21	8.953	
16,900.0	11,999.3	17,167.4	11,999.1	45.0	59.9	89.99		-4,718.7	522.7	924.0	819.4	104.63	8.832	
17,000.0	11,999.2	17,267.4	11,999.0	45.8	60.5	89.99		-4,818.7	523.3	924.0	818.0	106.05	8.713	
17,100.0	11,999.1	17,367.4	11,998.9	46.6	61.1	89.99		-4,918.7	523.9	924.0	816.5	107.49	8.597	
17,200.0	11,999.0	17,467.4	11,998.8	47.4	61.8	89.99		-5,018.7	524.5	924.0	815.1	108.93	8.483	
17,300.0	11,998.9	17,567.4	11,998.7	48.3	62.4	89.99		-5,118.7	525.1	924.0	813.6	110.38	8.372	
17,400.0	11,998.8	17,667.4	11,998.6	49.1	63.0	89.99		-5,218.7	525.7	924.0	812.2	111.83	8.263	
17,500.0	11,998.6	17,767.4	11,998.5	49.9	63.6	89.99		-5,318.7	526.4	924.0	810.7	113.29	8.156	
17,600.0	11,998.5	17,867.4	11,998.4	50.7	64.3	89.99		-5,418.7	527.0	924.0	809.3	114.76	8.052	
17,700.0	11,998.4	17,967.4	11,998.3	51.6	64.9	89.99		-5,518.7	527.6	924.0	807.8	116.24	7.949	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #705H - 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	
17,800.0	11,998.3	18,067.4	11,998.2	52.4	65.6	89.99	-5,618.7	528.2	924.0	806.3	117.72	7.849		
17,900.0	11,998.2	18,167.4	11,998.1	53.2	66.2	89.99	-5,718.7	528.8	924.0	804.8	119.20	7.751		
18,000.0	11,998.1	18,267.4	11,998.0	54.0	66.9	89.99	-5,818.7	529.4	924.0	803.3	120.70	7.656		
18,100.0	11,998.0	18,367.4	11,997.9	54.9	67.6	89.99	-5,918.7	530.0	924.0	801.8	122.19	7.562		
18,200.0	11,997.9	18,467.4	11,997.8	55.7	68.2	89.99	-6,018.7	530.6	924.0	800.3	123.70	7.470		
18,300.0	11,997.8	18,567.4	11,997.7	56.5	68.9	89.99	-6,118.7	531.3	924.0	798.8	125.21	7.380		
18,400.0	11,997.7	18,667.4	11,997.6	57.4	69.6	89.99	-6,218.7	531.9	924.0	797.3	126.72	7.292		
18,500.0	11,997.6	18,767.4	11,997.5	58.2	70.3	89.99	-6,318.7	532.5	924.0	795.8	128.24	7.205		
18,600.0	11,997.5	18,867.4	11,997.4	59.0	70.9	89.99	-6,418.7	533.1	924.0	794.2	129.76	7.121		
18,700.0	11,997.4	18,967.4	11,997.3	59.9	71.6	89.99	-6,518.7	533.7	924.0	792.7	131.29	7.038		
18,800.0	11,997.3	19,067.4	11,997.2	60.7	72.3	89.99	-6,618.7	534.3	924.0	791.2	132.82	6.957		
18,900.0	11,997.2	19,167.4	11,997.1	61.5	73.0	89.99	-6,718.7	534.9	924.0	789.6	134.36	6.877		
19,000.0	11,997.1	19,267.4	11,997.0	62.4	73.7	89.99	-6,818.7	535.5	924.0	788.1	135.90	6.799		
19,100.0	11,997.0	19,367.4	11,996.9	63.2	74.4	89.99	-6,918.7	536.2	924.0	786.6	137.44	6.723		
19,200.0	11,996.9	19,467.4	11,996.8	64.1	75.1	89.99	-7,018.7	536.8	924.0	785.0	138.99	6.648		
19,300.0	11,996.8	19,567.4	11,996.7	64.9	75.8	89.99	-7,118.7	537.4	924.0	783.5	140.54	6.575		
19,400.0	11,996.7	19,667.4	11,996.6	65.7	76.5	89.99	-7,218.7	538.0	924.0	781.9	142.09	6.503		
19,500.0	11,996.6	19,767.4	11,996.5	66.6	77.3	89.99	-7,318.7	538.6	924.0	780.3	143.65	6.432		
19,600.0	11,996.5	19,867.4	11,996.4	67.4	78.0	89.99	-7,418.7	539.2	924.0	778.8	145.22	6.363		
19,700.0	11,996.4	19,967.4	11,996.3	68.3	78.7	90.00	-7,518.7	539.8	924.0	777.2	146.78	6.295		
19,800.0	11,996.3	20,067.4	11,996.2	69.1	79.4	90.00	-7,618.7	540.4	924.0	775.6	148.35	6.228		
19,900.0	11,996.2	20,167.4	11,996.1	69.9	80.2	90.00	-7,718.7	541.1	924.0	774.1	149.92	6.163		
20,000.0	11,996.1	20,267.4	11,996.0	70.8	80.9	90.00	-7,818.7	541.7	924.0	772.5	151.50	6.099		
20,100.0	11,996.0	20,367.4	11,995.9	71.6	81.6	90.00	-7,918.7	542.3	924.0	770.9	153.07	6.036		
20,200.0	11,995.8	20,467.4	11,995.8	72.5	82.4	90.00	-8,018.7	542.9	924.0	769.3	154.66	5.974		
20,300.0	11,995.7	20,567.4	11,995.7	73.3	83.1	90.00	-8,118.7	543.5	924.0	767.7	156.24	5.914		
20,400.0	11,995.6	20,667.4	11,995.6	74.2	83.8	90.00	-8,218.7	544.1	924.0	766.2	157.83	5.854		
20,500.0	11,995.5	20,767.4	11,995.5	75.0	84.6	90.00	-8,318.7	544.7	924.0	764.6	159.41	5.796		
20,600.0	11,995.4	20,867.4	11,995.4	75.9	85.3	90.00	-8,418.7	545.4	924.0	763.0	161.01	5.739		
20,700.0	11,995.3	20,967.4	11,995.3	76.7	86.1	90.00	-8,518.7	546.0	924.0	761.4	162.60	5.682		
20,800.0	11,995.2	21,067.4	11,995.2	77.5	86.8	90.00	-8,618.7	546.6	924.0	759.8	164.20	5.627		
20,900.0	11,995.1	21,167.4	11,995.1	78.4	87.6	90.00	-8,718.7	547.2	924.0	758.2	165.80	5.573		
21,000.0	11,995.0	21,267.4	11,995.0	79.2	88.3	90.00	-8,818.7	547.8	924.0	756.6	167.40	5.520		
21,100.0	11,994.9	21,367.4	11,994.9	80.1	89.1	90.00	-8,918.7	548.4	924.0	755.0	169.00	5.467		
21,200.0	11,994.8	21,467.4	11,994.8	80.9	89.8	90.00	-9,018.7	549.0	924.0	753.4	170.61	5.416		
21,300.0	11,994.7	21,567.4	11,994.7	81.8	90.6	90.00	-9,118.7	549.6	924.0	751.8	172.22	5.365		
21,400.0	11,994.6	21,667.4	11,994.6	82.6	91.3	90.00	-9,218.7	550.3	924.0	750.1	173.83	5.315		
21,500.0	11,994.5	21,767.4	11,994.5	83.5	92.1	90.00	-9,318.7	550.9	924.0	748.5	175.44	5.267		
21,600.0	11,994.4	21,867.4	11,994.4	84.3	92.9	90.00	-9,418.6	551.5	924.0	746.9	177.05	5.219		
21,700.0	11,994.3	21,967.4	11,994.3	85.2	93.6	90.00	-9,518.6	552.1	924.0	745.3	178.67	5.171		
21,800.0	11,994.2	22,067.4	11,994.2	86.0	94.4	90.00	-9,618.6	552.7	924.0	743.7	180.29	5.125		
21,900.0	11,994.1	22,167.4	11,994.1	86.9	95.2	90.00	-9,718.6	553.3	924.0	742.1	181.91	5.079		
21,976.6	11,994.0	22,244.0	11,994.0	87.5	95.8	90.00	-9,795.2	553.8	924.0	740.8	183.15	5.045		
21,979.4	11,994.0	22,245.4	11,994.0	87.6	95.8	90.00	-9,796.6	553.8	924.0	740.8	183.17	5.044		
21,980.1	11,994.0	22,245.4	11,994.0	87.6	95.8	90.00	-9,796.6	553.8	924.0	740.8	183.17	5.044		

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #706H - 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		
0.0	0.0	0.4	0.4	3.0	3.0	-90.38	-0.4	-60.0	60.0					
100.0	100.0	100.4	100.4	3.0	3.0	-90.38	-0.4	-60.0	60.0	54.0	6.00	9.995		
200.0	200.0	200.4	200.4	3.0	3.0	-90.38	-0.4	-60.0	60.0	54.0	6.04	9.931		
300.0	300.0	300.4	300.4	3.0	3.1	-90.38	-0.4	-60.0	60.0	53.9	6.12	9.799		
400.0	400.0	400.4	400.4	3.0	3.2	-90.38	-0.4	-60.0	60.0	53.8	6.24	9.610		
500.0	500.0	500.4	500.4	3.1	3.4	-90.38	-0.4	-60.0	60.0	53.6	6.40	9.374		
600.0	600.0	600.4	600.4	3.1	3.6	-90.38	-0.4	-60.0	60.0	53.4	6.59	9.107		
700.0	700.0	700.4	700.4	3.1	3.8	-90.38	-0.4	-60.0	60.0	53.2	6.80	8.819		
800.0	800.0	800.4	800.4	3.2	4.0	-90.38	-0.4	-60.0	60.0	53.0	7.04	8.520		
900.0	900.0	900.4	900.4	3.2	4.2	-90.38	-0.4	-60.0	60.0	52.7	7.30	8.219		
1,000.0	1,000.0	1,000.4	1,000.4	3.2	4.5	-90.38	-0.4	-60.0	60.0	52.4	7.58	7.921		
1,100.0	1,100.0	1,100.4	1,100.4	3.3	4.8	-90.38	-0.4	-60.0	60.0	52.1	7.86	7.630		
1,200.0	1,200.0	1,200.4	1,200.4	3.4	5.1	-90.38	-0.4	-60.0	60.0	51.8	8.17	7.348		
1,300.0	1,300.0	1,300.4	1,300.4	3.4	5.4	-90.38	-0.4	-60.0	60.0	51.5	8.48	7.078		
1,400.0	1,400.0	1,400.4	1,400.4	3.5	5.7	-90.38	-0.4	-60.0	60.0	51.2	8.80	6.820		
1,500.0	1,500.0	1,500.4	1,500.4	3.5	6.0	-90.38	-0.4	-60.0	60.0	50.9	9.13	6.575		
1,600.0	1,600.0	1,600.4	1,600.4	3.6	6.3	-90.38	-0.4	-60.0	60.0	50.5	9.46	6.342		
1,700.0	1,700.0	1,700.4	1,700.4	3.7	6.6	-90.38	-0.4	-60.0	60.0	50.2	9.80	6.121		
1,800.0	1,800.0	1,800.4	1,800.4	3.8	6.9	-90.38	-0.4	-60.0	60.0	49.9	10.15	5.912		
1,900.0	1,900.0	1,900.4	1,900.4	3.9	7.2	-90.38	-0.4	-60.0	60.0	49.5	10.50	5.714		
2,000.0	2,000.0	2,000.4	2,000.4	3.9	7.6	-90.38	-0.4	-60.0	60.0	49.1	10.86	5.527		
2,100.0	2,100.0	2,100.4	2,100.4	4.0	7.9	-90.38	-0.4	-60.0	60.0	48.8	11.22	5.350		
2,200.0	2,200.0	2,200.4	2,200.4	4.1	8.2	-90.38	-0.4	-60.0	60.0	48.4	11.58	5.182		
2,300.0	2,300.0	2,300.4	2,300.4	4.2	8.6	-90.38	-0.4	-60.0	60.0	48.1	11.95	5.023		
2,400.0	2,400.0	2,400.4	2,400.4	4.3	8.9	-90.38	-0.4	-60.0	60.0	47.7	12.31	4.872		
2,416.5	2,416.5	2,416.9	2,416.9	4.3	9.0	-90.38	-0.4	-60.0	60.0	47.6	12.38	4.848 CC		
2,500.0	2,500.0	2,500.0	2,500.0	4.4	9.2	-90.38	-0.4	-60.0	60.0	47.3	12.69	4.730 ES, SF		
2,600.0	2,600.0	2,599.3	2,599.3	4.5	9.6	-167.02	1.1	-60.8	62.6	49.5	13.06	4.792		
2,700.0	2,699.8	2,697.8	2,697.6	4.5	9.9	-164.30	5.6	-63.3	70.3	56.9	13.42	5.239		
2,801.5	2,800.9	2,798.4	2,798.0	4.6	10.2	-161.75	11.7	-66.7	82.7	68.9	13.80	5.994		
2,900.0	2,898.9	2,896.0	2,895.3	4.6	10.6	-160.33	17.6	-70.0	96.5	82.3	14.17	6.810		
3,000.0	2,998.3	2,994.9	2,994.1	4.7	10.9	-159.25	23.7	-73.4	110.5	95.9	14.54	7.597		
3,100.0	3,097.8	3,093.9	3,092.8	4.7	11.3	-158.41	29.7	-76.7	124.5	109.6	14.92	8.345		
3,200.0	3,197.2	3,192.9	3,191.6	4.8	11.6	-157.74	35.8	-80.1	138.6	123.3	15.31	9.055		
3,300.0	3,296.7	3,291.9	3,290.3	4.8	11.9	-157.19	41.8	-83.4	152.7	137.0	15.70	9.729		
3,400.0	3,396.1	3,390.9	3,389.1	4.9	12.3	-156.74	47.8	-86.8	166.8	150.7	16.09	10.369		
3,500.0	3,495.6	3,489.9	3,487.8	5.0	12.6	-156.36	53.9	-90.1	180.9	164.4	16.48	10.976		
3,600.0	3,595.0	3,588.9	3,586.6	5.1	13.0	-156.03	59.9	-93.5	195.0	178.1	16.88	11.553		
3,700.0	3,694.5	3,687.9	3,685.3	5.1	13.3	-155.75	65.9	-96.9	209.1	191.9	17.28	12.102		
3,800.0	3,793.9	3,786.9	3,784.1	5.2	13.7	-155.50	72.0	-100.2	223.3	205.6	17.69	12.624		
3,900.0	3,893.4	3,885.9	3,882.8	5.3	14.0	-155.28	78.0	-103.6	237.4	219.3	18.09	13.120		
4,000.0	3,992.8	3,984.9	3,981.6	5.4	14.4	-155.09	84.0	-106.9	251.5	233.0	18.51	13.592		
4,100.0	4,092.3	4,083.9	4,080.3	5.4	14.7	-154.92	90.1	-110.3	265.7	246.7	18.92	14.041		
4,200.0	4,191.7	4,182.9	4,179.1	5.5	15.1	-154.76	96.1	-113.6	279.8	260.5	19.34	14.470		
4,300.0	4,291.2	4,281.9	4,277.8	5.6	15.4	-154.62	102.2	-117.0	293.9	274.2	19.76	14.878		
4,400.0	4,390.6	4,380.9	4,376.6	5.7	15.8	-154.49	108.2	-120.3	308.1	287.9	20.18	15.267		
4,500.0	4,490.0	4,479.8	4,475.3	5.8	16.1	-154.38	114.2	-123.7	322.2	301.6	20.60	15.639		
4,600.0	4,589.5	4,578.8	4,574.1	5.9	16.5	-154.27	120.3	-127.0	336.4	315.3	21.03	15.993		
4,700.0	4,688.9	4,677.8	4,672.8	6.0	16.8	-154.17	126.3	-130.4	350.5	329.0	21.46	16.332		
4,800.0	4,788.4	4,776.8	4,771.6	6.1	17.2	-154.08	132.3	-133.7	364.6	342.7	21.89	16.656		
4,900.0	4,887.8	4,875.8	4,870.4	6.2	17.5	-154.00	138.4	-137.1	378.8	356.5	22.33	16.966		

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #706H - 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
5,000.0	4,987.3	4,974.8	4,969.1	6.3	17.9	-153.92	144.4	-140.5	392.9	370.2	22.76	17.263	
5,100.0	5,086.7	5,073.8	5,067.9	6.4	18.2	-153.85	150.5	-143.8	407.1	383.9	23.20	17.546	
5,200.0	5,186.2	5,172.8	5,166.6	6.5	18.6	-153.78	156.5	-147.2	421.2	397.6	23.64	17.819	
5,300.0	5,285.6	5,271.8	5,265.4	6.6	18.9	-153.72	162.5	-150.5	435.4	411.3	24.08	18.079	
5,400.0	5,385.1	5,370.8	5,364.1	6.7	19.3	-153.66	168.6	-153.9	449.5	425.0	24.52	18.329	
5,500.0	5,484.5	5,469.8	5,462.9	6.8	19.6	-153.60	174.6	-157.2	463.7	438.7	24.97	18.569	
5,600.0	5,584.0	5,568.8	5,561.6	6.9	20.0	-153.55	180.6	-160.6	477.8	452.4	25.42	18.800	
5,700.0	5,683.4	5,667.8	5,660.4	7.0	20.3	-153.50	186.7	-163.9	492.0	466.1	25.86	19.021	
5,800.0	5,782.9	5,766.8	5,759.1	7.1	20.7	-153.46	192.7	-167.3	506.1	479.8	26.31	19.234	
5,900.0	5,882.3	5,865.7	5,857.9	7.2	21.0	-153.41	198.7	-170.6	520.3	493.5	26.76	19.439	
6,000.0	5,981.7	5,964.7	5,956.6	7.3	21.4	-153.37	204.8	-174.0	534.4	507.2	27.22	19.636	
6,100.0	6,081.2	6,063.7	6,055.4	7.4	21.7	-153.33	210.8	-177.3	548.6	520.9	27.67	19.826	
6,200.0	6,180.6	6,168.0	6,159.4	7.5	22.1	-153.33	216.7	-180.6	562.4	534.2	28.14	19.986	
6,300.0	6,280.1	6,274.4	6,265.7	7.6	22.5	-153.47	221.1	-183.0	575.0	546.3	28.61	20.093	
6,400.0	6,379.5	6,381.1	6,372.4	7.7	22.9	-153.75	223.7	-184.5	586.3	557.2	29.09	20.151	
6,500.0	6,479.0	6,488.0	6,479.3	7.9	23.2	-154.15	224.6	-185.0	596.4	566.8	29.58	20.164	
6,600.0	6,578.4	6,587.6	6,578.8	8.0	23.6	-154.59	224.6	-185.0	605.9	575.8	30.05	20.163	
6,700.0	6,677.9	6,687.0	6,678.3	8.1	23.9	-155.01	224.6	-185.0	615.4	584.9	30.52	20.163	
6,800.0	6,777.3	6,786.5	6,777.7	8.2	24.3	-155.41	224.6	-185.0	624.9	593.9	31.00	20.162	
6,900.0	6,876.8	6,885.9	6,877.2	8.3	24.6	-155.81	224.6	-185.0	634.5	603.0	31.47	20.163	
7,000.0	6,976.2	6,985.4	6,976.6	8.4	25.0	-156.19	224.6	-185.0	644.1	612.2	31.95	20.163	
7,100.0	7,075.7	7,084.8	7,076.1	8.5	25.4	-156.56	224.6	-185.0	653.8	621.3	32.42	20.164	
7,200.0	7,175.1	7,184.3	7,175.5	8.7	25.7	-156.92	224.6	-185.0	663.4	630.5	32.90	20.165	
7,300.0	7,274.6	7,283.7	7,275.0	8.8	26.1	-157.27	224.6	-185.0	673.1	639.7	33.38	20.167	
7,400.0	7,374.0	7,383.1	7,374.4	8.9	26.4	-157.61	224.6	-185.0	682.8	648.9	33.85	20.169	
7,500.0	7,473.4	7,482.6	7,473.8	9.0	26.8	-157.94	224.6	-185.0	692.5	658.2	34.33	20.171	
7,600.0	7,572.9	7,582.0	7,573.3	9.1	27.1	-158.26	224.6	-185.0	702.3	667.5	34.81	20.173	
7,700.0	7,672.3	7,681.5	7,672.7	9.2	27.5	-158.58	224.6	-185.0	712.1	676.8	35.29	20.175	
7,800.0	7,771.8	7,780.9	7,772.2	9.4	27.8	-158.88	224.6	-185.0	721.9	686.1	35.77	20.178	
7,900.0	7,871.2	7,880.4	7,871.6	9.5	28.2	-159.18	224.6	-185.0	731.7	695.4	36.26	20.181	
8,000.0	7,970.7	7,979.8	7,971.1	9.6	28.5	-159.47	224.6	-185.0	741.5	704.8	36.74	20.184	
8,100.0	8,070.1	8,079.3	8,070.5	9.7	28.9	-159.75	224.6	-185.0	751.4	714.1	37.22	20.187	
8,200.0	8,169.6	8,178.7	8,170.0	9.8	29.2	-160.02	224.6	-185.0	761.2	723.5	37.70	20.191	
8,300.0	8,269.0	8,278.2	8,269.4	10.0	29.6	-160.29	224.6	-185.0	771.1	732.9	38.18	20.194	
8,400.0	8,368.5	8,377.6	8,368.9	10.1	29.9	-160.55	224.6	-185.0	781.0	742.4	38.67	20.198	
8,500.0	8,467.9	8,477.1	8,468.3	10.2	30.3	-160.80	224.6	-185.0	790.9	751.8	39.15	20.202	
8,600.0	8,567.4	8,576.5	8,567.8	10.3	30.6	-161.05	224.6	-185.0	800.9	761.2	39.64	20.206	
8,700.0	8,666.8	8,676.0	8,667.2	10.5	31.0	-161.29	224.6	-185.0	810.8	770.7	40.12	20.210	
8,800.0	8,766.3	8,775.4	8,766.7	10.6	31.4	-161.52	224.6	-185.0	820.8	780.2	40.60	20.214	
8,900.0	8,865.7	8,874.8	8,866.1	10.7	31.7	-161.75	224.6	-185.0	830.8	789.7	41.09	20.219	
9,000.0	8,965.2	8,974.3	8,965.6	10.8	32.1	-161.98	224.6	-185.0	840.7	799.2	41.57	20.223	
9,100.0	9,064.6	9,073.7	9,065.0	11.0	32.4	-162.20	224.6	-185.0	850.7	808.7	42.06	20.228	
9,200.0	9,164.0	9,173.2	9,164.4	11.1	32.8	-162.41	224.6	-185.0	860.8	818.2	42.54	20.232	
9,300.0	9,263.5	9,272.6	9,263.9	11.2	33.1	-162.62	224.6	-185.0	870.8	827.8	43.03	20.237	
9,400.0	9,362.9	9,372.1	9,363.3	11.3	33.5	-162.82	224.6	-185.0	880.8	837.3	43.52	20.241	
9,500.0	9,462.4	9,471.5	9,462.8	11.5	33.8	-163.02	224.6	-185.0	890.9	846.9	44.00	20.246	
9,600.0	9,561.8	9,571.0	9,562.2	11.6	34.2	-163.22	224.6	-185.0	900.9	856.4	44.49	20.251	
9,700.0	9,661.3	9,670.4	9,661.7	11.7	34.5	-163.41	224.6	-185.0	911.0	866.0	44.97	20.256	
9,800.0	9,760.7	9,769.9	9,761.1	11.8	34.9	-163.59	224.6	-185.0	921.1	875.6	45.46	20.261	
9,900.0	9,860.2	9,869.3	9,860.6	12.0	35.2	-163.78	224.6	-185.0	931.2	885.2	45.95	20.265	
10,000.0	9,959.6	9,968.8	9,960.0	12.1	35.6	-163.95	224.6	-185.0	941.2	894.8	46.43	20.270	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #706H - 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	
10,100.0	10,059.1	10,068.2	10,059.5	12.2	36.0	-164.13	224.6	-185.0	951.3	904.4	46.92	20.275	
10,200.0	10,158.5	10,167.7	10,158.9	12.3	36.3	-164.30	224.6	-185.0	961.5	914.1	47.41	20.280	
10,300.0	10,258.0	10,267.1	10,258.4	12.5	36.7	-164.47	224.6	-185.0	971.6	923.7	47.90	20.285	
10,400.0	10,357.4	10,366.5	10,357.8	12.6	37.0	-164.63	224.6	-185.0	981.7	933.3	48.38	20.290	
10,500.0	10,456.9	10,466.0	10,457.3	12.7	37.4	-164.79	224.6	-185.0	991.8	943.0	48.87	20.295	
10,600.0	10,556.3	10,565.4	10,556.7	12.8	37.7	-164.95	224.6	-185.0	1,002.0	952.6	49.36	20.300	
10,700.0	10,655.7	10,664.9	10,656.1	13.0	38.1	-165.10	224.6	-185.0	1,012.1	962.3	49.85	20.305	
10,800.0	10,755.2	10,764.3	10,755.6	13.1	38.4	-165.26	224.6	-185.0	1,022.3	972.0	50.34	20.310	
10,900.0	10,854.6	10,863.8	10,855.0	13.2	38.8	-165.40	224.6	-185.0	1,032.5	981.6	50.82	20.315	
11,000.0	10,954.1	10,963.2	10,954.5	13.4	39.1	-165.55	224.6	-185.0	1,042.6	991.3	51.31	20.320	
11,100.0	11,053.5	11,062.7	11,053.9	13.5	39.5	-165.69	224.6	-185.0	1,052.8	1,001.0	51.80	20.325	
11,200.0	11,153.0	11,162.1	11,153.4	13.6	39.9	-165.83	224.6	-185.0	1,063.0	1,010.7	52.29	20.330	
11,300.0	11,252.4	11,261.6	11,252.8	13.8	40.2	-165.97	224.6	-185.0	1,073.2	1,020.4	52.78	20.335	
11,400.0	11,351.9	11,361.0	11,352.3	13.9	40.6	-166.10	224.6	-185.0	1,083.4	1,030.1	53.27	20.339	
11,500.0	11,451.3	11,460.5	11,451.7	14.0	40.9	-166.24	224.6	-185.0	1,093.6	1,039.8	53.75	20.344	
11,594.8	11,545.6	11,546.6	11,537.8	14.1	41.2	-166.36	224.5	-185.0	1,103.3	1,049.1	54.21	20.353	
11,600.0	11,550.8	11,550.0	11,541.3	14.2	41.2	-171.79	224.4	-185.1	1,103.9	1,049.6	54.30	20.329	
11,625.0	11,575.6	11,563.9	11,555.2	14.2	41.3	168.02	223.8	-185.3	1,107.3	1,052.9	54.39	20.358	
11,650.0	11,600.3	11,575.0	11,566.2	14.2	41.3	155.71	223.0	-185.6	1,111.7	1,057.2	54.48	20.404	
11,675.0	11,624.7	11,592.3	11,583.4	14.2	41.4	147.89	221.4	-186.1	1,116.9	1,062.3	54.57	20.467	
11,700.0	11,649.0	11,606.3	11,597.2	14.2	41.4	142.48	219.6	-186.8	1,123.0	1,068.4	54.66	20.545	
11,725.0	11,672.9	11,625.0	11,615.7	14.2	41.5	138.45	216.7	-187.8	1,130.1	1,075.3	54.75	20.640	
11,750.0	11,696.4	11,633.7	11,624.2	14.2	41.5	135.20	215.1	-188.4	1,137.9	1,083.1	54.84	20.749	
11,775.0	11,719.4	11,650.0	11,640.2	14.2	41.6	132.46	211.7	-189.6	1,146.6	1,091.6	54.93	20.873	
11,800.0	11,741.9	11,660.3	11,650.1	14.2	41.6	130.01	209.3	-190.4	1,156.0	1,101.0	55.02	21.011	
11,825.0	11,763.9	11,675.0	11,664.3	14.2	41.6	127.78	205.5	-191.8	1,166.2	1,111.1	55.11	21.163	
11,850.0	11,785.1	11,686.0	11,674.7	14.2	41.7	125.63	202.4	-192.9	1,177.2	1,122.0	55.19	21.328	
11,875.0	11,805.7	11,700.0	11,688.0	14.2	41.7	123.57	198.1	-194.4	1,188.8	1,133.5	55.28	21.505	
11,900.0	11,825.6	11,710.7	11,698.0	14.3	41.7	121.50	194.6	-195.6	1,201.0	1,145.7	55.36	21.694	
11,925.0	11,844.6	11,725.0	11,711.3	14.3	41.8	119.47	189.5	-197.4	1,213.9	1,158.4	55.44	21.895	
11,950.0	11,862.7	11,734.3	11,719.8	14.3	41.8	117.36	186.0	-198.6	1,227.3	1,171.8	55.52	22.105	
11,975.0	11,880.0	11,750.0	11,734.1	14.3	41.8	115.32	179.8	-200.8	1,241.3	1,185.7	55.60	22.327	
12,000.0	11,896.2	11,756.8	11,740.2	14.3	41.9	113.07	177.0	-201.8	1,255.7	1,200.1	55.67	22.556	
12,025.0	11,911.5	11,767.6	11,749.8	14.4	41.9	110.85	172.3	-203.5	1,270.6	1,214.9	55.74	22.794	
12,050.0	11,925.7	11,775.0	11,756.3	14.4	41.9	108.50	169.0	-204.6	1,285.9	1,230.1	55.81	23.041	
12,075.0	11,938.9	11,788.3	11,767.9	14.4	41.9	106.25	162.8	-206.8	1,301.6	1,245.7	55.88	23.295	
12,100.0	11,950.9	11,800.0	11,777.9	14.5	42.0	103.91	157.1	-208.8	1,317.6	1,261.7	55.94	23.556	
12,125.0	11,961.7	11,807.8	11,784.5	14.5	42.0	101.42	153.2	-210.2	1,333.9	1,277.9	55.99	23.822	
12,150.0	11,971.4	11,817.0	11,792.2	14.6	42.0	98.95	148.4	-211.9	1,350.4	1,294.4	56.05	24.095	
12,175.0	11,979.8	11,825.0	11,798.8	14.6	42.0	96.40	144.2	-213.4	1,367.1	1,311.0	56.09	24.372	
12,200.0	11,987.1	11,834.6	11,806.6	14.7	42.1	93.90	139.0	-215.2	1,384.0	1,327.9	56.14	24.654	
12,225.0	11,993.0	11,842.8	11,813.2	14.7	42.1	91.36	134.4	-216.9	1,401.0	1,344.9	56.18	24.940	
12,250.0	11,997.7	11,850.0	11,818.9	14.8	42.1	88.78	130.3	-218.3	1,418.1	1,361.9	56.21	25.229	
12,275.0	12,001.1	11,858.3	11,825.5	14.8	42.1	86.28	125.4	-220.0	1,435.3	1,379.1	56.24	25.522	
12,300.0	12,003.2	11,865.5	11,831.1	14.9	42.1	83.78	121.1	-221.6	1,452.5	1,396.2	56.26	25.816	
12,325.0	12,004.0	11,875.0	11,838.3	15.0	42.1	81.43	115.3	-223.6	1,469.6	1,413.3	56.28	26.112	
12,328.5	12,004.0	11,875.0	11,838.3	15.0	42.1	81.04	115.3	-223.6	1,472.1	1,415.8	56.28	26.155	
12,400.0	12,004.0	11,893.7	11,852.2	15.2	42.2	82.22	103.5	-227.7	1,520.4	1,464.1	56.33	26.989	
12,500.0	12,003.9	11,925.0	11,874.4	15.5	42.2	83.81	82.7	-235.1	1,585.9	1,529.5	56.43	28.102	
12,600.0	12,003.8	11,971.0	11,904.2	15.9	42.3	85.56	49.8	-246.7	1,648.6	1,592.0	56.58	29.140	
12,700.0	12,003.6	12,025.0	11,934.8	16.3	42.4	87.12	7.8	-261.6	1,707.8	1,651.0	56.76	30.086	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #706H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR													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
12,800.0	12,003.5	12,088.7	11,964.1	16.8	42.5	88.44		-45.5	-280.4	1,762.9	1,705.8	57.01	30.921	
12,900.0	12,003.4	12,165.6	11,989.0	17.2	42.6	89.44		-114.0	-304.6	1,813.0	1,755.6	57.33	31.622	
13,000.0	12,003.3	12,893.5	12,003.3	17.7	43.3	89.98		-824.6	-425.2	1,843.4	1,783.8	59.70	30.880	
13,100.0	12,003.2	12,993.4	12,003.2	18.1	43.4	89.99		-924.5	-424.6	1,848.0	1,787.6	60.32	30.634	
13,114.8	12,003.2	13,008.2	12,003.2	18.2	43.4	89.99		-939.3	-424.5	1,848.0	1,787.6	60.42	30.587	
13,200.0	12,003.1	13,093.4	12,003.1	18.6	43.6	89.99		-1,024.5	-424.0	1,848.0	1,787.1	60.99	30.303	
13,300.0	12,003.0	13,193.4	12,003.0	19.0	43.7	89.99		-1,124.5	-423.3	1,848.0	1,786.3	61.69	29.956	
13,400.0	12,002.9	13,293.4	12,002.9	19.5	43.9	89.99		-1,224.5	-422.7	1,848.0	1,785.6	62.44	29.597	
13,500.0	12,002.8	13,393.4	12,002.8	20.1	44.1	89.99		-1,324.5	-422.1	1,848.0	1,784.8	63.23	29.229	
13,600.0	12,002.7	13,493.4	12,002.7	20.6	44.3	89.99		-1,424.5	-421.5	1,848.0	1,784.0	64.05	28.854	
13,700.0	12,002.6	13,593.4	12,002.6	21.2	44.6	89.99		-1,524.5	-420.9	1,848.0	1,783.1	64.90	28.474	
13,800.0	12,002.5	13,693.4	12,002.5	21.8	44.8	89.99		-1,624.5	-420.3	1,848.0	1,782.2	65.79	28.089	
13,900.0	12,002.4	13,793.4	12,002.4	22.4	45.1	89.99		-1,724.5	-419.7	1,848.0	1,781.3	66.71	27.702	
14,000.0	12,002.3	13,893.4	12,002.3	23.0	45.3	89.99		-1,824.4	-419.1	1,848.0	1,780.4	67.66	27.314	
14,100.0	12,002.2	13,993.4	12,002.2	23.7	45.6	89.99		-1,924.4	-418.4	1,848.0	1,779.4	68.63	26.926	
14,200.0	12,002.1	14,093.4	12,002.1	24.4	45.9	89.99		-2,024.4	-417.8	1,848.0	1,778.4	69.64	26.539	
14,300.0	12,002.0	14,193.4	12,002.0	25.0	46.3	89.99		-2,124.4	-417.2	1,848.0	1,777.4	70.66	26.153	
14,400.0	12,001.9	14,293.4	12,001.9	25.7	46.6	89.99		-2,224.4	-416.6	1,848.0	1,776.3	71.71	25.771	
14,500.0	12,001.8	14,393.4	12,001.8	26.4	46.9	89.99		-2,324.4	-416.0	1,848.0	1,775.2	72.78	25.391	
14,600.0	12,001.7	14,493.4	12,001.7	27.1	47.3	89.99		-2,424.4	-415.4	1,848.0	1,774.2	73.88	25.015	
14,700.0	12,001.6	14,593.4	12,001.6	27.9	47.7	89.99		-2,524.4	-414.8	1,848.0	1,773.0	74.99	24.644	
14,800.0	12,001.5	14,693.4	12,001.5	28.6	48.1	89.99		-2,624.4	-414.2	1,848.0	1,771.9	76.12	24.277	
14,900.0	12,001.3	14,793.4	12,001.4	29.3	48.5	89.99		-2,724.4	-413.5	1,848.0	1,770.8	77.28	23.914	
15,000.0	12,001.2	14,893.4	12,001.2	30.1	48.9	89.99		-2,824.4	-412.9	1,848.0	1,769.6	78.45	23.558	
15,100.0	12,001.1	14,993.4	12,001.1	30.8	49.3	89.99		-2,924.4	-412.3	1,848.0	1,768.4	79.63	23.206	
15,200.0	12,001.0	15,093.4	12,001.0	31.6	49.7	89.99		-3,024.4	-411.7	1,848.0	1,767.2	80.84	22.861	
15,300.0	12,000.9	15,193.4	12,000.9	32.3	50.2	89.99		-3,124.4	-411.1	1,848.0	1,766.0	82.06	22.521	
15,400.0	12,000.8	15,293.4	12,000.8	33.1	50.6	89.99		-3,224.4	-410.5	1,848.0	1,764.7	83.29	22.187	
15,500.0	12,000.7	15,393.4	12,000.7	33.9	51.1	89.99		-3,324.4	-409.9	1,848.0	1,763.5	84.54	21.859	
15,600.0	12,000.6	15,493.4	12,000.6	34.6	51.6	89.99		-3,424.4	-409.3	1,848.0	1,762.2	85.81	21.537	
15,700.0	12,000.5	15,593.4	12,000.5	35.4	52.1	89.99		-3,524.4	-408.6	1,848.0	1,760.9	87.08	21.221	
15,800.0	12,000.4	15,693.4	12,000.4	36.2	52.6	89.99		-3,624.4	-408.0	1,848.0	1,759.6	88.37	20.912	
15,900.0	12,000.3	15,793.4	12,000.3	37.0	53.1	89.99		-3,724.4	-407.4	1,848.0	1,758.3	89.68	20.608	
16,000.0	12,000.2	15,893.4	12,000.2	37.8	53.6	89.99		-3,824.4	-406.8	1,848.0	1,757.0	90.99	20.310	
16,100.0	12,000.1	15,993.4	12,000.1	38.6	54.1	89.99		-3,924.4	-406.2	1,848.0	1,755.7	92.32	20.018	
16,200.0	12,000.0	16,093.4	12,000.0	39.4	54.6	89.99		-4,024.4	-405.6	1,848.0	1,754.4	93.65	19.732	
16,300.0	11,999.9	16,193.4	11,999.9	40.2	55.2	89.99		-4,124.4	-405.0	1,848.0	1,753.0	95.00	19.452	
16,400.0	11,999.8	16,293.4	11,999.8	41.0	55.7	89.99		-4,224.4	-404.4	1,848.0	1,751.7	96.36	19.178	
16,500.0	11,999.7	16,393.4	11,999.7	41.8	56.3	89.99		-4,324.4	-403.7	1,848.0	1,750.3	97.73	18.910	
16,600.0	11,999.6	16,493.4	11,999.6	42.6	56.8	89.99		-4,424.4	-403.1	1,848.0	1,748.9	99.11	18.647	
16,700.0	11,999.5	16,593.4	11,999.5	43.4	57.4	89.99		-4,524.4	-402.5	1,848.0	1,747.5	100.49	18.389	
16,800.0	11,999.4	16,693.4	11,999.4	44.2	58.0	89.99		-4,624.4	-401.9	1,848.0	1,746.1	101.89	18.137	
16,900.0	11,999.3	16,793.4	11,999.3	45.0	58.6	89.99		-4,724.4	-401.3	1,848.0	1,744.7	103.29	17.891	
17,000.0	11,999.2	16,893.4	11,999.2	45.8	59.2	89.99		-4,824.4	-400.7	1,848.0	1,743.3	104.71	17.649	
17,100.0	11,999.1	16,993.4	11,999.1	46.6	59.8	89.99		-4,924.4	-400.1	1,848.0	1,741.9	106.13	17.413	
17,200.0	11,999.0	17,093.4	11,999.0	47.4	60.4	89.99		-5,024.4	-399.5	1,848.0	1,740.5	107.56	17.181	
17,300.0	11,998.9	17,193.4	11,998.9	48.3	61.0	89.99		-5,124.4	-398.8	1,848.0	1,739.0	109.00	16.955	
17,400.0	11,998.8	17,293.4	11,998.8	49.1	61.6	89.99		-5,224.4	-398.2	1,848.0	1,737.6	110.44	16.733	
17,500.0	11,998.6	17,393.4	11,998.7	49.9	62.2	89.99		-5,324.4	-397.6	1,848.0	1,736.1	111.89	16.516	
17,600.0	11,998.5	17,493.4	11,998.5	50.7	62.9	89.99		-5,424.4	-397.0	1,848.0	1,734.7	113.35	16.304	
17,700.0	11,998.4	17,593.4	11,998.4	51.6	63.5	89.99		-5,524.4	-396.4	1,848.0	1,733.2	114.81	16.096	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #706H - 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	
17,800.0	11,998.3	17,693.4	11,998.3	52.4	64.1	89.99	-5,624.4	-395.8	1,848.0	1,731.7	116.28	15.892		
17,900.0	11,998.2	17,793.4	11,998.2	53.2	64.8	89.99	-5,724.4	-395.2	1,848.0	1,730.2	117.76	15.693		
18,000.0	11,998.1	17,893.4	11,998.1	54.0	65.4	89.99	-5,824.4	-394.6	1,848.0	1,728.8	119.24	15.498		
18,100.0	11,998.0	17,993.4	11,998.0	54.9	66.1	89.99	-5,924.4	-393.9	1,848.0	1,727.3	120.73	15.307		
18,200.0	11,997.9	18,093.4	11,997.9	55.7	66.7	89.99	-6,024.4	-393.3	1,848.0	1,725.8	122.23	15.120		
18,300.0	11,997.8	18,193.4	11,997.8	56.5	67.4	89.99	-6,124.4	-392.7	1,848.0	1,724.3	123.72	14.936		
18,400.0	11,997.7	18,293.4	11,997.7	57.4	68.1	89.99	-6,224.4	-392.1	1,848.0	1,722.8	125.23	14.757		
18,500.0	11,997.6	18,393.4	11,997.6	58.2	68.7	89.99	-6,324.4	-391.5	1,848.0	1,721.3	126.74	14.581		
18,600.0	11,997.5	18,493.4	11,997.5	59.0	69.4	89.99	-6,424.4	-390.9	1,848.0	1,719.7	128.25	14.409		
18,700.0	11,997.4	18,593.4	11,997.4	59.9	70.1	89.99	-6,524.4	-390.3	1,848.0	1,718.2	129.77	14.240		
18,800.0	11,997.3	18,693.4	11,997.3	60.7	70.8	89.99	-6,624.4	-389.7	1,848.0	1,716.7	131.30	14.075		
18,900.0	11,997.2	18,793.4	11,997.2	61.5	71.5	89.99	-6,724.4	-389.0	1,848.0	1,715.2	132.83	13.913		
19,000.0	11,997.1	18,893.4	11,997.1	62.4	72.2	89.99	-6,824.4	-388.4	1,848.0	1,713.6	134.36	13.754		
19,100.0	11,997.0	18,993.4	11,997.0	63.2	72.9	89.99	-6,924.4	-387.8	1,848.0	1,712.1	135.90	13.599		
19,200.0	11,996.9	19,093.4	11,996.9	64.1	73.6	89.99	-7,024.3	-387.2	1,848.0	1,710.6	137.44	13.446		
19,300.0	11,996.8	19,193.4	11,996.8	64.9	74.3	89.99	-7,124.3	-386.6	1,848.0	1,709.0	138.98	13.297		
19,400.0	11,996.7	19,293.4	11,996.7	65.7	75.0	89.99	-7,224.3	-386.0	1,848.0	1,707.5	140.53	13.150		
19,500.0	11,996.6	19,393.4	11,996.6	66.6	75.7	89.99	-7,324.3	-385.4	1,848.0	1,705.9	142.08	13.006		
19,600.0	11,996.5	19,493.4	11,996.5	67.4	76.4	89.99	-7,424.3	-384.8	1,848.0	1,704.4	143.64	12.865		
19,700.0	11,996.4	19,593.4	11,996.4	68.3	77.1	89.99	-7,524.3	-384.1	1,848.0	1,702.8	145.20	12.727		
19,800.0	11,996.3	19,693.4	11,996.3	69.1	77.8	89.99	-7,624.3	-383.5	1,848.0	1,701.2	146.76	12.592		
19,900.0	11,996.2	19,793.4	11,996.2	69.9	78.6	89.99	-7,724.3	-382.9	1,848.0	1,699.7	148.33	12.459		
20,000.0	11,996.1	19,893.4	11,996.1	70.8	79.3	89.99	-7,824.3	-382.3	1,848.0	1,698.1	149.90	12.328		
20,100.0	11,996.0	19,993.4	11,995.9	71.6	80.0	89.99	-7,924.3	-381.7	1,848.0	1,696.5	151.47	12.200		
20,200.0	11,995.8	20,093.4	11,995.8	72.5	80.7	89.99	-8,024.3	-381.1	1,848.0	1,694.9	153.05	12.074		
20,300.0	11,995.7	20,193.4	11,995.7	73.3	81.5	89.99	-8,124.3	-380.5	1,848.0	1,693.4	154.63	11.951		
20,400.0	11,995.6	20,293.4	11,995.6	74.2	82.2	89.99	-8,224.3	-379.9	1,848.0	1,691.8	156.21	11.830		
20,500.0	11,995.5	20,393.4	11,995.5	75.0	82.9	89.99	-8,324.3	-379.2	1,848.0	1,690.2	157.79	11.711		
20,600.0	11,995.4	20,493.4	11,995.4	75.9	83.7	89.99	-8,424.3	-378.6	1,848.0	1,688.6	159.38	11.595		
20,700.0	11,995.3	20,593.4	11,995.3	76.7	84.4	89.99	-8,524.3	-378.0	1,848.0	1,687.0	160.97	11.480		
20,800.0	11,995.2	20,693.4	11,995.2	77.5	85.2	89.99	-8,624.3	-377.4	1,848.0	1,685.4	162.56	11.368		
20,900.0	11,995.1	20,793.4	11,995.1	78.4	85.9	89.99	-8,724.3	-376.8	1,848.0	1,683.8	164.16	11.257		
21,000.0	11,995.0	20,893.4	11,995.0	79.2	86.7	89.99	-8,824.3	-376.2	1,848.0	1,682.2	165.76	11.149		
21,100.0	11,994.9	20,993.4	11,994.9	80.1	87.4	89.99	-8,924.3	-375.6	1,848.0	1,680.6	167.36	11.042		
21,200.0	11,994.8	21,093.4	11,994.8	80.9	88.2	89.99	-9,024.3	-375.0	1,848.0	1,679.0	168.96	10.937		
21,300.0	11,994.7	21,193.4	11,994.7	81.8	88.9	89.99	-9,124.3	-374.3	1,848.0	1,677.4	170.56	10.835		
21,400.0	11,994.6	21,293.4	11,994.6	82.6	89.7	89.99	-9,224.3	-373.7	1,848.0	1,675.8	172.17	10.733		
21,500.0	11,994.5	21,393.4	11,994.5	83.5	90.4	89.99	-9,324.3	-373.1	1,848.0	1,674.2	173.78	10.634		
21,600.0	11,994.4	21,493.4	11,994.4	84.3	91.2	89.99	-9,424.3	-372.5	1,848.0	1,672.6	175.39	10.536		
21,700.0	11,994.3	21,593.4	11,994.3	85.2	92.0	89.99	-9,524.3	-371.9	1,848.0	1,671.0	177.00	10.440		
21,800.0	11,994.2	21,693.4	11,994.2	86.0	92.7	89.99	-9,624.3	-371.3	1,848.0	1,669.4	178.62	10.346		
21,900.0	11,994.1	21,793.4	11,994.1	86.9	93.5	89.99	-9,724.3	-370.7	1,848.0	1,667.7	180.23	10.253		
21,976.2	11,994.0	21,869.6	11,994.0	87.5	94.1	89.99	-9,800.5	-370.2	1,848.0	1,666.5	181.47	10.184		
21,979.4	11,994.0	21,870.5	11,994.0	87.6	94.1	89.99	-9,801.4	-370.2	1,848.0	1,666.5	181.50	10.182		
21,980.1	11,994.0	21,870.5	11,994.0	87.6	94.1	89.99	-9,801.4	-370.2	1,848.0	1,666.5	181.50	10.182		

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #1H - OWB - ACTUAL												Offset Site Error:	0.0 usft
Survey Program: 239-MWD, 761-MWD, 4644-MWD, 9817-MWD												Offset Well Error:	2.0 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	2.0	-32.77	517.6	-333.2	615.6				
100.0	100.0	96.0	96.0	3.0	2.2	-32.75	517.9	-333.1	615.7	610.7	5.01	122.904	
200.0	200.0	193.9	193.9	3.0	2.6	-32.69	518.6	-332.8	616.2	611.2	5.04	122.200	
300.0	300.0	296.9	296.9	3.0	2.9	-32.60	519.7	-332.3	616.9	611.7	5.13	120.285	
400.0	400.0	396.4	396.4	3.0	3.1	-32.51	520.3	-331.6	617.0	611.7	5.29	116.567	
500.0	500.0	496.5	496.5	3.1	3.5	-32.42	521.1	-331.0	617.3	611.7	5.64	109.457	
600.0	600.0	596.7	596.7	3.1	4.3	-32.34	521.7	-330.3	617.5	611.4	6.14	100.574	
700.0	700.0	696.9	696.9	3.1	5.1	-32.25	522.4	-329.6	617.7	611.1	6.66	92.687	
800.0	800.0	798.6	798.6	3.2	5.4	-32.16	523.0	-328.8	617.8	610.9	6.89	89.648	
830.4	830.4	828.4	828.4	3.2	5.4	-32.14	523.1	-328.6	617.7	610.8	6.91	89.404	
900.0	900.0	893.1	893.1	3.2	5.4	-32.10	523.5	-328.5	618.1	611.1	6.96	88.773	
1,000.0	1,000.0	994.5	994.4	3.2	5.5	-32.08	524.3	-328.6	618.8	611.7	7.08	87.407	
1,100.0	1,100.0	1,096.8	1,096.8	3.3	5.5	-32.14	524.2	-329.4	619.2	611.9	7.28	85.067	
1,200.0	1,200.0	1,204.6	1,204.6	3.4	5.7	-32.29	523.1	-330.5	618.8	611.3	7.48	82.734	
1,300.0	1,300.0	1,306.1	1,306.0	3.4	5.8	-32.33	521.8	-330.2	617.5	609.9	7.69	80.321	
1,400.0	1,400.0	1,401.3	1,401.2	3.5	5.9	-32.26	521.4	-329.0	616.5	608.5	7.97	77.346	
1,429.2	1,429.2	1,427.3	1,427.2	3.5	6.0	-32.22	521.5	-328.7	616.4	608.4	8.07	76.412	
1,500.0	1,500.0	1,491.3	1,491.2	3.5	6.2	-32.12	522.4	-327.9	616.9	608.6	8.28	74.510	
1,600.0	1,600.0	1,587.3	1,587.2	3.6	6.4	-32.03	524.1	-327.9	618.3	609.8	8.55	72.324	
1,700.0	1,700.0	1,686.4	1,686.2	3.7	6.5	-32.07	525.5	-329.3	620.3	611.4	8.86	70.031	
1,800.0	1,800.0	1,793.1	1,792.9	3.8	6.8	-32.23	525.8	-331.6	621.7	612.5	9.21	67.469	
1,900.0	1,900.0	1,901.0	1,900.9	3.9	7.0	-32.42	524.9	-333.4	621.8	612.2	9.57	65.003	
2,000.0	2,000.0	2,006.4	2,006.2	3.9	7.2	-32.51	523.5	-333.7	620.9	611.0	9.90	62.688	
2,100.0	2,100.0	2,108.0	2,107.8	4.0	7.5	-32.45	522.6	-332.3	619.3	609.1	10.28	60.232	
2,200.0	2,200.0	2,203.4	2,203.2	4.1	7.7	-32.27	522.5	-330.0	618.0	607.4	10.67	57.899	
2,263.9	2,263.9	2,262.2	2,261.9	4.2	7.9	-32.15	523.0	-328.7	617.7	606.8	10.90	56.651	
2,300.0	2,300.0	2,294.9	2,294.6	4.2	7.9	-32.09	523.5	-328.2	617.8	606.8	11.02	56.044 ES	
2,400.0	2,400.0	2,388.5	2,388.3	4.3	8.2	-31.93	525.3	-327.3	619.0	607.6	11.36	54.488	
2,500.0	2,500.0	2,486.6	2,486.3	4.4	8.4	-31.87	527.1	-327.7	620.8	609.0	11.72	52.964	
2,600.0	2,600.0	2,590.1	2,589.8	4.5	8.7	-109.71	528.4	-328.7	623.0	610.8	12.16	51.252	
2,700.0	2,699.8	2,694.2	2,693.9	4.5	9.1	-110.24	528.7	-330.3	625.8	613.2	12.60	49.675	
2,801.5	2,800.9	2,802.8	2,802.5	4.6	9.4	-111.15	527.7	-331.8	628.9	616.0	12.97	48.492	
2,900.0	2,898.9	2,908.3	2,908.0	4.6	9.7	-112.26	525.6	-332.6	631.6	618.3	13.29	47.525	
3,000.0	2,998.3	3,012.2	3,011.8	4.7	10.0	-113.19	523.6	-331.6	633.5	619.9	13.62	46.519	
3,100.0	3,097.8	3,110.3	3,109.8	4.7	10.3	-113.98	522.2	-329.6	635.3	621.4	13.95	45.548	
3,200.0	3,197.2	3,205.2	3,204.8	4.8	10.6	-114.68	521.5	-327.5	637.8	623.5	14.29	44.632	
3,300.0	3,296.7	3,299.8	3,299.3	4.8	10.9	-115.34	521.7	-325.5	641.1	626.5	14.67	43.714	
3,400.0	3,396.1	3,396.0	3,395.6	4.9	11.2	-115.96	522.6	-323.6	645.2	630.2	15.01	42.978	
3,500.0	3,495.6	3,504.8	3,504.3	5.0	11.6	-116.63	524.0	-321.3	649.6	634.2	15.42	42.126	
3,600.0	3,595.0	3,601.0	3,600.4	5.1	12.0	-117.20	524.1	-318.0	652.3	636.5	15.82	41.229	
3,700.0	3,694.5	3,684.0	3,683.4	5.1	12.5	-117.77	525.0	-317.0	657.3	641.1	16.17	40.639	
3,800.0	3,793.9	3,774.4	3,773.8	5.2	12.9	-118.46	526.9	-318.2	664.6	648.1	16.50	40.286	
3,900.0	3,893.4	3,878.0	3,877.4	5.3	13.2	-119.34	528.4	-320.4	672.3	655.4	16.89	39.794	
4,000.0	3,992.8	3,989.4	3,988.7	5.4	13.6	-120.32	528.6	-322.4	678.8	661.5	17.31	39.227	
4,100.0	4,092.3	4,101.6	4,100.9	5.4	14.0	-121.35	526.6	-323.5	683.6	665.9	17.73	38.556	
4,200.0	4,191.7	4,211.1	4,210.4	5.5	14.3	-122.29	523.7	-322.7	686.8	668.7	18.11	37.927	
4,300.0	4,291.2	4,308.8	4,308.0	5.6	14.6	-123.04	521.5	-321.0	689.6	671.2	18.46	37.351	
4,400.0	4,390.6	4,405.0	4,404.1	5.7	14.9	-123.73	519.8	-319.2	692.9	674.0	18.83	36.796	
4,500.0	4,490.0	4,495.9	4,495.1	5.8	15.2	-124.29	519.7	-317.3	697.2	678.0	19.19	36.331	
4,600.0	4,589.5	4,593.0	4,592.2	5.9	15.4	-124.83	520.4	-315.5	702.3	682.8	19.49	36.030	
4,700.0	4,688.9	4,688.3	4,687.4	6.0	15.5	-125.38	521.2	-314.2	707.9	688.2	19.72	35.904	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #1H - OWB - ACTUAL													Offset Site Error:	0.0 usft
Survey Program: 239-MWD, 761-MWD, 4644-MWD, 9817-MWD													Offset Well Error:	2.0 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	4,788.4	4,783.9	4,783.0	6.1	15.6	-125.92	522.5	-313.5	714.4	694.6	19.81	36.068		
4,900.0	4,887.8	4,878.5	4,877.6	6.2	15.6	-126.45	524.0	-313.0	721.3	701.4	19.90	36.253		
5,000.0	4,987.3	4,975.7	4,974.7	6.3	15.7	-126.98	526.0	-313.2	729.1	709.1	19.99	36.465		
5,100.0	5,086.7	5,077.8	5,076.8	6.4	15.7	-127.52	528.2	-313.0	736.7	716.6	20.11	36.642		
5,200.0	5,186.2	5,180.1	5,179.2	6.5	15.8	-128.03	530.2	-312.5	744.1	723.8	20.23	36.782		
5,300.0	5,285.6	5,282.0	5,281.0	6.6	15.8	-128.54	531.9	-311.8	751.1	730.7	20.37	36.879		
5,400.0	5,385.1	5,382.8	5,381.8	6.7	15.9	-129.04	533.4	-310.9	757.9	737.4	20.52	36.943		
5,500.0	5,484.5	5,477.0	5,476.0	6.8	16.0	-129.52	534.7	-310.4	765.1	744.4	20.67	37.010		
5,600.0	5,584.0	5,577.2	5,576.1	6.9	16.1	-130.03	536.2	-310.4	772.7	751.8	20.84	37.081		
5,700.0	5,683.4	5,677.2	5,676.1	7.0	16.2	-130.52	537.7	-310.1	780.2	759.2	21.01	37.129		
5,800.0	5,782.9	5,775.8	5,774.7	7.1	16.3	-130.97	539.5	-309.6	787.8	766.6	21.20	37.162		
5,900.0	5,882.3	5,876.5	5,875.4	7.2	16.4	-131.42	541.3	-309.2	795.4	774.1	21.40	37.176		
6,000.0	5,981.7	5,977.9	5,976.8	7.3	16.5	-131.89	542.8	-308.7	802.9	781.3	21.61	37.162		
6,100.0	6,081.2	6,076.9	6,075.8	7.4	16.6	-132.37	543.9	-308.5	810.4	788.6	21.82	37.137		
6,200.0	6,180.6	6,176.6	6,175.5	7.5	16.8	-132.87	544.5	-308.4	817.9	795.8	22.05	37.098		
6,300.0	6,280.1	6,275.0	6,273.9	7.6	16.9	-133.40	544.8	-308.9	825.6	803.3	22.28	37.059		
6,400.0	6,379.5	6,379.2	6,378.1	7.7	17.0	-133.95	544.9	-309.1	833.1	810.6	22.52	36.989		
6,500.0	6,479.0	6,479.0	6,477.9	7.9	17.2	-134.48	544.6	-309.0	840.2	817.5	22.77	36.905		
6,600.0	6,578.4	6,576.9	6,575.8	8.0	17.3	-135.00	544.4	-309.2	847.7	824.7	23.02	36.820		
6,700.0	6,677.9	6,674.6	6,673.5	8.1	17.5	-135.56	543.5	-309.9	855.3	832.0	23.29	36.723		
6,800.0	6,777.3	6,774.9	6,773.8	8.2	17.6	-136.12	542.9	-310.7	863.2	839.7	23.57	36.628		
6,900.0	6,876.8	6,871.8	6,870.7	8.3	17.8	-136.60	542.7	-311.0	871.0	847.2	23.85	36.525		
7,000.0	6,976.2	6,975.1	6,974.0	8.4	18.0	-137.13	542.4	-311.7	879.2	855.0	24.14	36.417		
7,100.0	7,075.7	7,074.6	7,073.5	8.5	18.1	-137.65	541.6	-312.1	886.8	862.4	24.43	36.294		
7,200.0	7,175.1	7,174.7	7,173.6	8.7	18.3	-138.15	540.9	-312.5	894.6	869.9	24.73	36.171		
7,300.0	7,274.6	7,280.0	7,278.9	8.8	18.5	-138.68	539.9	-312.6	902.2	877.1	25.04	36.028		
7,400.0	7,374.0	7,376.0	7,374.9	8.9	18.7	-139.19	538.6	-313.0	909.7	884.4	25.35	35.893		
7,500.0	7,473.4	7,477.2	7,476.1	9.0	18.9	-139.76	536.5	-313.8	917.5	891.8	25.67	35.744		
7,600.0	7,572.9	7,578.0	7,576.8	9.1	19.1	-140.34	533.9	-314.4	925.0	899.0	25.99	35.583		
7,700.0	7,672.3	7,678.2	7,676.9	9.2	19.3	-140.92	531.3	-315.1	932.5	906.1	26.33	35.418		
7,800.0	7,771.8	7,778.1	7,776.9	9.4	19.5	-141.50	528.3	-315.7	939.9	913.3	26.66	35.249		
7,900.0	7,871.2	7,877.1	7,875.8	9.5	19.7	-142.05	525.8	-316.1	947.4	920.4	27.01	35.083		
8,000.0	7,970.7	7,974.5	7,973.1	9.6	19.9	-142.56	523.4	-316.6	955.2	927.8	27.35	34.925		
8,100.0	8,070.1	8,073.8	8,072.4	9.7	20.1	-143.09	521.0	-317.3	963.2	935.5	27.70	34.768		
8,200.0	8,169.6	8,177.1	8,175.7	9.8	20.4	-143.64	518.3	-317.8	971.0	943.0	28.07	34.598		
8,300.0	8,269.0	8,279.1	8,277.6	10.0	20.6	-144.23	514.4	-318.4	978.5	950.1	28.43	34.414		
8,400.0	8,368.5	8,377.7	8,376.2	10.1	20.8	-144.80	510.5	-318.9	986.0	957.2	28.80	34.234		
8,500.0	8,467.9	8,477.4	8,475.8	10.2	21.1	-145.33	507.2	-319.2	993.7	964.5	29.17	34.061		
8,600.0	8,567.4	8,581.2	8,579.6	10.3	21.3	-145.83	504.5	-319.0	1,001.2	971.7	29.55	33.880		
8,700.0	8,666.8	8,675.3	8,673.6	10.5	21.6	-146.30	501.5	-318.9	1,008.7	978.8	29.92	33.710		
8,800.0	8,766.3	8,789.3	8,787.6	10.6	21.8	-146.88	497.6	-318.7	1,016.1	985.8	30.32	33.508		
8,900.0	8,865.7	8,865.8	8,863.9	10.7	22.0	-147.29	494.6	-318.9	1,023.8	993.1	30.70	33.348		
9,000.0	8,965.2	8,977.7	8,975.8	10.8	22.4	-147.87	490.5	-320.1	1,032.5	1,001.3	31.15	33.143		
9,100.0	9,064.6	9,075.0	9,073.0	11.0	22.6	-148.36	487.0	-320.1	1,040.2	1,008.7	31.55	32.970		
9,200.0	9,164.0	9,168.0	9,166.0	11.1	22.9	-148.84	483.3	-320.6	1,048.4	1,016.5	31.94	32.823		
9,300.0	9,263.5	9,248.8	9,246.7	11.2	23.1	-149.19	481.5	-321.7	1,058.0	1,025.7	32.34	32.713		
9,400.0	9,362.9	9,353.0	9,350.9	11.3	23.4	-149.60	479.9	-323.3	1,068.0	1,035.1	32.87	32.495		
9,500.0	9,462.4	9,447.0	9,444.8	11.5	23.8	-150.05	477.0	-325.2	1,078.1	1,044.7	33.37	32.309		
9,600.0	9,561.8	9,542.5	9,540.2	11.6	24.1	-150.48	474.5	-327.9	1,089.1	1,055.3	33.79	32.230		
9,700.0	9,661.3	9,663.5	9,661.2	11.7	24.4	-150.99	471.2	-328.8	1,098.0	1,063.7	34.26	32.045		
9,800.0	9,760.7	9,730.0	9,727.7	11.8	24.6	-151.23	470.2	-330.0	1,108.5	1,073.8	34.68	31.965		

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #1H - OWB - ACTUAL													Offset Site Error:	0.0 usft
Survey Program: 239-MWD, 761-MWD, 4644-MWD, 9817-MWD													Offset Well Error:	2.0 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	
9,900.0	9,860.2	9,869.4	9,866.8	12.0	24.9	-151.95	463.9	-333.2	1,118.8	1,083.7	35.01	31.953		
10,000.0	9,959.6	10,043.0	10,036.1	12.1	24.9	-154.22	426.8	-334.5	1,122.8	1,087.6	35.20	31.896		
10,100.0	10,059.1	10,148.0	10,133.4	12.2	25.0	-156.41	387.5	-336.2	1,125.3	1,089.8	35.50	31.703		
10,200.0	10,158.5	10,270.1	10,236.7	12.3	25.1	-159.88	323.0	-339.8	1,128.1	1,092.2	35.92	31.407		
10,300.0	10,258.0	10,443.2	10,337.5	12.5	25.5	-167.07	184.1	-343.4	1,131.5	1,094.7	36.79	30.752		
10,400.0	10,357.4	10,486.2	10,354.0	12.6	25.7	-169.10	144.5	-342.3	1,138.1	1,100.8	37.28	30.524		
10,500.0	10,456.9	10,509.7	10,362.2	12.7	25.8	-170.22	122.5	-341.9	1,152.5	1,114.7	37.77	30.514 SF		
10,600.0	10,556.3	10,531.0	10,369.1	12.8	25.8	-171.25	102.3	-341.6	1,174.6	1,136.3	38.32	30.654		
10,700.0	10,655.7	10,548.9	10,374.4	13.0	25.9	-172.11	85.2	-341.4	1,204.2	1,165.3	38.91	30.950		
10,800.0	10,755.2	10,563.0	10,378.3	13.1	26.0	-172.79	71.6	-341.2	1,240.8	1,201.3	39.51	31.403		
10,900.0	10,854.6	10,574.6	10,381.2	13.2	26.0	-173.36	60.4	-341.2	1,284.0	1,243.9	40.12	32.002		
11,000.0	10,954.1	10,584.4	10,383.6	13.4	26.1	-173.84	50.9	-341.2	1,333.1	1,292.4	40.72	32.738		
11,100.0	11,053.5	10,594.0	10,385.8	13.5	26.1	-174.30	41.6	-341.2	1,387.5	1,346.2	41.30	33.593		
11,200.0	11,153.0	10,594.0	10,385.8	13.6	26.1	-174.30	41.6	-341.2	1,446.7	1,404.9	41.83	34.584		
11,300.0	11,252.4	10,608.9	10,389.0	13.8	26.2	-175.03	27.0	-341.3	1,510.1	1,467.7	42.40	35.612		
11,400.0	11,351.9	10,615.6	10,390.3	13.9	26.2	-175.36	20.4	-341.4	1,577.2	1,534.3	42.92	36.745		
11,500.0	11,451.3	10,626.0	10,392.2	14.0	26.3	-175.86	10.2	-341.5	1,647.6	1,604.2	43.44	37.931		
11,594.8	11,545.6	10,626.0	10,392.2	14.1	26.3	-175.86	10.2	-341.5	1,717.0	1,673.1	43.88	39.133		
11,600.0	11,550.8	10,626.0	10,392.2	14.2	26.3	178.13	10.2	-341.5	1,720.9	1,676.7	44.17	38.962		
11,625.0	11,575.6	10,626.0	10,392.2	14.2	26.3	155.06	10.2	-341.5	1,739.8	1,695.6	44.27	39.298		
11,650.0	11,600.3	10,626.0	10,392.2	14.2	26.3	139.70	10.2	-341.5	1,759.2	1,714.8	44.38	39.641		
11,675.0	11,624.7	10,626.0	10,392.2	14.2	26.3	128.68	10.2	-341.5	1,779.0	1,734.5	44.48	39.992		
11,700.0	11,649.0	10,626.0	10,392.2	14.2	26.3	119.95	10.2	-341.5	1,799.0	1,754.4	44.59	40.350		
11,725.0	11,672.9	10,626.0	10,392.2	14.2	26.3	112.49	10.2	-341.5	1,819.3	1,774.6	44.69	40.714		
11,750.0	11,696.4	10,639.4	10,394.4	14.2	26.4	105.28	-3.0	-341.6	1,839.6	1,794.8	44.83	41.037		
11,775.0	11,719.4	10,642.3	10,394.8	14.2	26.4	99.05	-5.9	-341.7	1,860.1	1,815.2	44.93	41.397		
11,800.0	11,741.9	10,645.5	10,395.3	14.2	26.4	93.24	-9.0	-341.7	1,880.6	1,835.6	45.04	41.758		
11,825.0	11,763.9	10,657.0	10,396.9	14.2	26.5	87.57	-20.4	-342.0	1,901.2	1,856.0	45.16	42.094		
11,850.0	11,785.1	10,657.0	10,396.9	14.2	26.5	82.60	-20.4	-342.0	1,921.5	1,876.3	45.25	42.464		
11,875.0	11,805.7	10,657.0	10,396.9	14.2	26.5	77.96	-20.4	-342.0	1,941.7	1,896.4	45.33	42.833		
11,900.0	11,825.6	10,657.0	10,396.9	14.3	26.5	73.62	-20.4	-342.0	1,961.8	1,916.4	45.41	43.200		
11,925.0	11,844.6	10,657.0	10,396.9	14.3	26.5	69.61	-20.4	-342.0	1,981.6	1,936.1	45.49	43.565		

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #2H - LATERAL 01 - AV													Offset Site Error:	0.0 usft
Survey Program: 100- VES GyroFlex, 9743-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		
0.0	0.0	7.8	7.8	3.0	3.0	61.88	527.1	986.5	1,118.5					
100.0	100.0	118.9	118.9	3.0	3.0	61.91	526.2	986.2	1,117.9	1,111.9	6.00	186.288		
200.0	200.0	221.4	221.4	3.0	3.0	61.95	525.0	985.4	1,116.6	1,110.6	6.01	185.812		
300.0	300.0	319.0	319.0	3.0	3.0	61.98	524.0	984.6	1,115.4	1,109.4	6.03	185.066		
400.0	400.0	419.0	419.0	3.0	3.0	62.01	522.9	984.0	1,114.3	1,108.3	6.05	184.070		
500.0	500.0	517.8	517.8	3.1	3.1	62.04	521.9	983.3	1,113.3	1,107.2	6.09	182.840		
600.0	600.0	616.6	616.5	3.1	3.1	62.07	521.0	982.8	1,112.4	1,106.3	6.13	181.403		
700.0	700.0	721.1	721.0	3.1	3.2	62.09	520.1	982.1	1,111.4	1,105.2	6.19	179.612		
800.0	800.0	826.8	826.8	3.2	3.2	62.11	519.0	980.7	1,109.7	1,103.5	6.25	177.453		
900.0	900.0	921.9	921.8	3.2	3.3	62.17	517.3	979.9	1,108.1	1,101.8	6.32	175.443		
1,000.0	1,000.0	1,014.0	1,013.9	3.2	3.3	62.26	515.3	979.9	1,107.2	1,100.8	6.37	173.800		
1,100.0	1,100.0	1,109.3	1,109.1	3.3	3.4	62.36	513.5	980.4	1,106.7	1,100.3	6.42	172.450		
1,119.9	1,119.9	1,126.9	1,126.8	3.3	3.4	62.38	513.1	980.6	1,106.7	1,100.3	6.42	172.261		
1,200.0	1,200.0	1,200.0	1,199.9	3.4	3.4	62.46	511.9	981.6	1,107.0	1,100.6	6.45	171.539		
1,300.0	1,300.0	1,307.3	1,307.2	3.4	3.5	62.60	509.6	983.2	1,107.4	1,100.9	6.49	170.583		
1,302.4	1,302.4	1,309.5	1,309.3	3.4	3.5	62.60	509.6	983.2	1,107.4	1,100.9	6.49	170.560		
1,400.0	1,400.0	1,400.0	1,399.8	3.5	3.5	62.70	508.0	984.5	1,107.9	1,101.3	6.53	169.679		
1,500.0	1,500.0	1,494.5	1,494.2	3.5	3.6	62.79	507.0	986.2	1,108.9	1,102.3	6.56	169.056		
1,600.0	1,600.0	1,591.9	1,591.7	3.6	3.6	62.89	505.9	988.1	1,110.2	1,103.6	6.59	168.420		
1,700.0	1,700.0	1,692.1	1,691.8	3.7	3.6	62.97	505.2	990.0	1,111.5	1,104.9	6.62	167.787		
1,800.0	1,800.0	1,794.1	1,793.8	3.8	3.7	63.02	504.8	991.6	1,112.8	1,106.1	6.66	166.963		
1,900.0	1,900.0	1,895.7	1,895.4	3.9	3.7	63.04	505.0	992.8	1,113.9	1,107.2	6.70	166.150		
2,000.0	2,000.0	1,989.7	1,989.4	3.9	3.7	63.03	505.7	993.8	1,115.2	1,108.4	6.75	165.175		
2,100.0	2,100.0	2,089.1	2,088.8	4.0	3.7	63.00	506.9	995.0	1,116.8	1,110.0	6.81	164.030		
2,200.0	2,200.0	2,184.9	2,184.5	4.1	3.7	62.96	508.5	996.1	1,118.6	1,111.7	6.87	162.748		
2,300.0	2,300.0	2,274.5	2,274.1	4.2	3.7	62.91	510.3	997.6	1,121.0	1,114.1	6.94	161.466		
2,400.0	2,400.0	2,372.2	2,371.8	4.3	3.7	62.87	512.5	999.9	1,124.2	1,117.1	7.02	160.091		
2,500.0	2,500.0	2,474.0	2,473.6	4.4	3.7	62.83	514.4	1,002.4	1,127.2	1,120.1	7.11	158.525		
2,600.0	2,600.0	2,576.2	2,575.6	4.5	3.8	-14.90	515.8	1,005.0	1,128.4	1,121.2	7.22	156.351		
2,700.0	2,699.8	2,680.9	2,680.3	4.5	3.8	-14.98	517.1	1,007.4	1,125.9	1,118.6	7.34	153.318		
2,801.5	2,800.9	2,778.7	2,778.1	4.6	3.9	-15.13	518.3	1,009.4	1,119.8	1,112.3	7.48	149.790		
2,900.0	2,898.9	2,888.6	2,888.0	4.6	3.9	-15.29	519.4	1,011.7	1,112.1	1,104.4	7.62	145.912		
3,000.0	2,998.3	3,005.5	3,004.9	4.7	4.0	-15.51	520.7	1,012.1	1,102.8	1,095.0	7.77	141.979		
3,100.0	3,097.8	3,106.4	3,105.8	4.7	3.9	-15.75	522.2	1,011.3	1,092.6	1,084.7	7.89	138.486		
3,200.0	3,197.2	3,207.1	3,206.5	4.8	3.9	-16.01	523.9	1,010.2	1,082.3	1,074.3	8.01	135.045		
3,300.0	3,296.7	3,301.2	3,300.5	4.8	4.0	-16.25	525.6	1,009.3	1,072.3	1,064.1	8.14	131.691		
3,400.0	3,396.1	3,402.9	3,402.2	4.9	4.0	-16.53	527.5	1,008.4	1,062.4	1,054.1	8.28	128.315		
3,500.0	3,495.6	3,500.0	3,499.3	5.0	4.0	-16.81	529.6	1,007.5	1,052.5	1,044.1	8.42	125.046		
3,600.0	3,595.0	3,597.9	3,597.1	5.1	4.0	-17.10	531.7	1,006.8	1,042.9	1,034.3	8.56	121.822		
3,700.0	3,694.5	3,697.2	3,696.5	5.1	4.0	-17.39	533.9	1,006.1	1,033.3	1,024.6	8.71	118.667		
3,800.0	3,793.9	3,794.0	3,793.2	5.2	4.1	-17.70	536.3	1,005.4	1,023.9	1,015.0	8.86	115.591		
3,900.0	3,893.4	3,892.6	3,891.8	5.3	4.1	-18.03	539.0	1,004.8	1,014.7	1,005.7	9.01	112.573		
4,000.0	3,992.8	3,992.9	3,992.1	5.4	4.2	-18.31	540.8	1,004.6	1,005.5	996.3	9.18	109.542		
4,100.0	4,092.3	4,092.2	4,091.3	5.4	4.3	-18.54	541.7	1,005.0	996.3	986.9	9.36	106.497		
4,200.0	4,191.7	4,189.1	4,188.2	5.5	4.3	-18.75	542.5	1,005.6	987.2	977.7	9.54	103.508		
4,300.0	4,291.2	4,292.5	4,291.6	5.6	4.4	-18.94	542.8	1,006.4	978.2	968.5	9.73	100.579		
4,400.0	4,390.6	4,392.5	4,391.6	5.7	4.5	-19.08	542.2	1,007.6	968.9	959.0	9.90	97.878		
4,500.0	4,490.0	4,495.5	4,494.6	5.8	4.6	-19.20	541.2	1,008.7	959.4	949.3	10.07	95.310		
4,600.0	4,589.5	4,594.9	4,594.0	5.9	4.6	-19.35	540.5	1,009.4	949.7	939.5	10.23	92.824		
4,700.0	4,688.9	4,695.7	4,694.8	6.0	4.7	-19.53	540.0	1,009.9	940.0	929.6	10.40	90.380		
4,800.0	4,788.4	4,798.9	4,798.0	6.1	4.8	-19.71	539.4	1,010.2	930.0	919.4	10.56	88.079		

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #2H - LATERAL 01 - AV												Offset Site Error: 0.0 usft	
Survey Program: 100- VES GyroFlex, 9743-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
4,900.0	4,887.8	4,900.2	4,899.3	6.2	4.8	-19.88	538.4	1,010.3	919.7	909.0	10.70	85.957	
5,000.0	4,987.3	5,001.1	5,000.2	6.3	4.9	-20.07	537.6	1,010.2	909.2	898.4	10.83	83.949	
5,100.0	5,086.7	5,103.4	5,102.5	6.4	4.9	-20.28	536.9	1,009.6	898.5	887.6	10.96	81.996	
5,200.0	5,186.2	5,200.0	5,199.1	6.5	4.9	-20.50	536.3	1,009.0	887.9	876.8	11.09	80.091	
5,300.0	5,285.6	5,302.9	5,302.0	6.6	4.9	-20.76	535.9	1,008.2	877.1	865.9	11.22	78.155	
5,400.0	5,385.1	5,400.5	5,399.6	6.7	4.9	-21.01	535.5	1,007.3	866.3	855.0	11.36	76.245	
5,500.0	5,484.5	5,505.3	5,504.4	6.8	5.0	-21.27	534.8	1,006.2	855.3	843.8	11.51	74.286	
5,600.0	5,584.0	5,603.4	5,602.5	6.9	5.0	-21.50	533.7	1,005.3	844.1	832.4	11.66	72.365	
5,700.0	5,683.4	5,706.1	5,705.1	7.0	5.1	-21.77	532.7	1,004.0	832.7	820.9	11.83	70.418	
5,800.0	5,782.9	5,800.8	5,799.8	7.1	5.1	-22.04	532.0	1,002.7	821.5	809.5	11.98	68.560	
5,900.0	5,882.3	5,901.5	5,900.6	7.2	5.1	-22.33	531.4	1,001.5	810.4	798.3	12.15	66.697	
6,000.0	5,981.7	6,003.6	6,002.7	7.3	5.2	-22.65	530.7	1,000.0	799.2	786.8	12.33	64.828	
6,100.0	6,081.2	6,105.7	6,104.7	7.4	5.2	-22.99	530.0	998.1	787.5	775.0	12.51	62.957	
6,200.0	6,180.6	6,203.9	6,202.9	7.5	5.3	-23.34	529.5	996.0	775.8	763.1	12.69	61.142	
6,300.0	6,280.1	6,295.7	6,294.6	7.6	5.3	-23.70	529.4	994.4	764.7	751.8	12.86	59.463	
6,400.0	6,379.5	6,397.2	6,396.2	7.7	5.4	-24.06	529.1	993.2	754.0	740.9	13.05	57.777	
6,500.0	6,479.0	6,498.2	6,497.2	7.9	5.5	-24.39	528.2	992.1	743.0	729.7	13.24	56.100	
6,600.0	6,578.4	6,595.8	6,594.7	8.0	5.6	-24.73	527.5	990.9	732.0	718.6	13.44	54.481	
6,700.0	6,677.9	6,694.5	6,693.4	8.1	5.6	-25.14	527.3	989.5	721.3	707.6	13.63	52.911	
6,800.0	6,777.3	6,795.5	6,794.4	8.2	5.7	-25.62	527.7	987.6	710.5	696.6	13.83	51.369	
6,900.0	6,876.8	6,891.8	6,890.6	8.3	5.8	-26.08	527.9	985.9	699.8	685.8	14.02	49.907	
7,000.0	6,976.2	6,992.5	6,991.4	8.4	5.8	-26.57	528.2	984.3	689.3	675.1	14.22	48.466	
7,100.0	7,075.7	7,090.3	7,089.2	8.5	5.9	-27.07	528.5	982.7	678.8	664.4	14.42	47.083	
7,200.0	7,175.1	7,188.9	7,187.8	8.7	6.0	-27.58	528.9	981.2	668.6	653.9	14.61	45.751	
7,300.0	7,274.6	7,285.5	7,284.3	8.8	6.0	-28.10	529.4	979.9	658.6	643.8	14.80	44.497	
7,400.0	7,374.0	7,376.5	7,375.3	8.9	6.1	-28.58	530.3	979.4	649.5	634.5	14.97	43.401	
7,500.0	7,473.4	7,473.4	7,472.2	9.0	6.1	-29.08	531.5	979.8	641.5	626.3	15.12	42.425	
7,600.0	7,572.9	7,573.1	7,571.9	9.1	6.2	-29.58	532.7	980.5	633.6	618.3	15.27	41.482	
7,700.0	7,672.3	7,671.6	7,670.4	9.2	6.2	-30.06	533.6	981.4	625.7	610.3	15.43	40.557	
7,800.0	7,771.8	7,771.6	7,770.4	9.4	6.2	-30.49	534.1	982.8	618.1	602.5	15.59	39.647	
7,900.0	7,871.2	7,872.1	7,870.8	9.5	6.3	-30.87	534.0	984.7	610.3	594.5	15.76	38.733	
8,000.0	7,970.7	7,977.1	7,975.8	9.6	6.3	-31.26	533.5	986.4	602.1	586.2	15.93	37.789	
8,100.0	8,070.1	8,078.0	8,076.7	9.7	6.4	-31.68	532.6	987.3	593.2	577.1	16.11	36.811	
8,200.0	8,169.6	8,179.3	8,178.0	9.8	6.5	-32.16	532.1	987.7	584.2	567.9	16.30	35.836	
8,300.0	8,269.0	8,282.6	8,281.3	10.0	6.5	-32.67	531.2	987.7	574.8	558.3	16.50	34.825	
8,400.0	8,368.5	8,380.4	8,379.1	10.1	6.6	-33.15	530.0	987.7	565.0	548.3	16.69	33.849	
8,500.0	8,467.9	8,484.9	8,483.6	10.2	6.7	-33.65	528.4	987.9	555.3	538.4	16.91	32.843	
8,600.0	8,567.4	8,588.4	8,587.1	10.3	6.8	-34.21	526.4	986.9	544.5	527.4	17.13	31.786	
8,700.0	8,666.8	8,688.5	8,687.2	10.5	6.9	-34.82	524.5	985.4	533.4	516.1	17.34	30.756	
8,800.0	8,766.3	8,790.9	8,789.5	10.6	7.0	-35.52	522.5	983.3	522.0	504.4	17.57	29.704	
8,900.0	8,865.7	8,891.2	8,889.8	10.7	7.0	-36.34	520.8	980.2	510.2	492.4	17.79	28.678	
9,000.0	8,965.2	8,989.1	8,987.6	10.8	7.1	-37.22	519.4	977.0	498.5	480.6	17.99	27.715	
9,100.0	9,064.6	9,084.4	9,082.8	11.0	7.2	-38.16	518.7	973.8	487.5	469.3	18.16	26.842	
9,200.0	9,164.0	9,182.9	9,181.3	11.1	7.3	-39.17	518.3	970.9	477.1	458.7	18.36	25.989	
9,300.0	9,263.5	9,286.2	9,284.5	11.2	7.4	-40.31	517.7	967.4	466.5	447.9	18.59	25.094	
9,400.0	9,362.9	9,386.6	9,384.8	11.3	7.5	-41.65	517.4	962.5	455.3	436.5	18.79	24.229	
9,500.0	9,462.4	9,482.2	9,480.3	11.5	7.6	-43.18	518.2	956.6	444.6	425.7	18.94	23.480	
9,600.0	9,561.8	9,581.1	9,578.9	11.6	7.6	-44.92	519.7	950.3	434.7	415.6	19.10	22.763	
9,700.0	9,661.3	9,678.7	9,676.3	11.7	7.7	-46.59	520.6	944.8	425.2	405.9	19.24	22.094	
9,800.0	9,760.7	9,777.9	9,775.5	11.8	7.8	-48.25	521.3	940.0	416.2	396.9	19.36	21.500	
9,900.0	9,860.2	9,879.4	9,876.8	12.0	9.0	-49.18	518.9	940.2	407.2	386.6	20.61	19.757	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #2H - LATERAL 01 - AV													Offset Site Error:	0.0 usft
Survey Program: 100- VES GyroFlex, 9743-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		
10,000.0	9,959.6	9,981.0	9,978.1	12.1	9.1	-49.31	513.0	945.1	397.6	376.7	20.90	19.026		
10,100.0	10,059.1	10,091.2	10,087.7	12.2	9.2	-49.02	504.0	952.4	386.8	365.6	21.18	18.261		
10,200.0	10,158.5	10,222.9	10,213.7	12.3	9.3	-45.12	476.2	976.8	371.0	349.0	21.99	16.874		
10,300.0	10,258.0	10,378.8	10,348.8	12.5	9.8	-34.62	410.4	1,017.1	343.7	319.9	23.79	14.450		
10,400.0	10,357.4	10,501.2	10,440.5	12.6	10.3	-21.13	335.3	1,047.2	309.0	284.6	24.36	12.683		
10,500.0	10,456.9	10,577.0	10,489.8	12.7	10.7	-9.94	280.8	1,065.2	281.3	258.1	23.20	12.128		
10,583.5	10,539.9	10,627.8	10,518.1	12.8	11.1	-1.19	240.7	1,078.0	272.8	249.7	23.08	11.819 CC, ES		
10,600.0	10,556.3	10,636.8	10,522.7	12.8	11.1	0.42	233.3	1,080.2	273.1	249.8	23.30	11.721		
10,700.0	10,655.7	10,683.7	10,544.8	13.0	11.5	9.01	193.5	1,091.8	290.9	264.5	26.43	11.005		
10,800.0	10,755.2	10,720.0	10,560.0	13.1	11.8	15.59	161.7	1,100.1	332.9	302.1	30.81	10.805		
10,900.0	10,854.6	10,752.0	10,572.0	13.2	12.1	21.24	132.8	1,107.0	392.8	358.4	34.41	11.415		
11,000.0	10,954.1	10,771.6	10,578.4	13.4	12.3	24.58	114.8	1,111.1	464.9	427.7	37.18	12.503		
11,100.0	11,053.5	10,783.0	10,581.9	13.5	12.4	26.48	104.1	1,113.5	544.9	505.6	39.21	13.896		
11,200.0	11,153.0	10,800.6	10,586.7	13.6	12.6	29.32	87.6	1,117.0	629.8	589.3	40.58	15.520		
11,300.0	11,252.4	10,815.0	10,590.1	13.8	12.7	31.57	73.9	1,119.8	718.4	676.7	41.66	17.245		
11,400.0	11,351.9	10,815.0	10,590.1	13.9	12.7	31.57	73.9	1,119.8	809.3	766.6	42.62	18.989		
11,500.0	11,451.3	10,830.2	10,593.3	14.0	12.9	33.86	59.3	1,122.7	901.8	858.5	43.32	20.818		
11,594.8	11,545.6	10,846.0	10,596.3	14.1	13.1	36.15	44.0	1,125.5	990.8	946.9	43.90	22.569		
11,600.0	11,550.8	10,846.0	10,596.3	14.2	13.1	31.75	44.0	1,125.5	995.7	951.8	43.94	22.659		
11,625.0	11,575.6	10,846.0	10,596.3	14.2	13.1	15.98	44.0	1,125.5	1,019.1	974.9	44.11	23.101		
11,650.0	11,600.3	10,846.0	10,596.3	14.2	13.1	7.40	44.0	1,125.5	1,042.0	997.8	44.28	23.532		
11,675.0	11,624.7	10,846.0	10,596.3	14.2	13.1	2.79	44.0	1,125.5	1,064.6	1,020.2	44.45	23.950		
11,700.0	11,649.0	10,846.0	10,596.3	14.2	13.1	0.22	44.0	1,125.5	1,086.8	1,042.2	44.62	24.355		
11,725.0	11,672.9	10,855.4	10,597.9	14.2	13.2	-0.66	35.0	1,127.1	1,108.5	1,063.7	44.76	24.765		
11,750.0	11,696.4	10,860.7	10,598.7	14.2	13.2	-1.30	29.8	1,128.0	1,129.6	1,084.7	44.91	25.151		
11,775.0	11,719.4	10,866.4	10,599.7	14.2	13.3	-1.61	24.2	1,129.0	1,150.2	1,105.1	45.07	25.522		
11,800.0	11,741.9	10,878.0	10,601.4	14.2	13.4	-1.48	12.9	1,130.9	1,170.2	1,125.0	45.20	25.889		
11,825.0	11,763.9	10,878.0	10,601.4	14.2	13.4	-1.77	12.9	1,130.9	1,189.4	1,144.1	45.37	26.217		
11,850.0	11,785.1	10,878.0	10,601.4	14.2	13.4	-1.95	12.9	1,130.9	1,208.1	1,162.6	45.53	26.533		
11,875.0	11,805.7	10,892.0	10,603.4	14.2	13.6	-1.58	-0.7	1,133.3	1,226.0	1,180.3	45.66	26.853		
11,900.0	11,825.6	10,899.0	10,604.3	14.3	13.7	-1.46	-7.5	1,134.4	1,243.1	1,197.3	45.79	27.146		
11,925.0	11,844.6	10,909.0	10,605.5	14.3	13.8	-1.23	-17.4	1,136.1	1,259.5	1,213.6	45.92	27.426		
11,950.0	11,862.7	10,909.0	10,605.5	14.3	13.8	-1.29	-17.4	1,136.1	1,275.1	1,229.1	46.07	27.677		
11,975.0	11,880.0	10,922.0	10,606.9	14.3	13.9	-1.00	-30.1	1,138.2	1,289.9	1,243.7	46.19	27.927		
12,000.0	11,896.2	10,930.4	10,607.7	14.3	14.0	-0.84	-38.3	1,139.6	1,303.8	1,257.5	46.31	28.153		
12,025.0	11,911.5	10,941.0	10,608.7	14.4	14.2	-0.63	-48.8	1,141.4	1,316.9	1,270.5	46.43	28.365		
12,050.0	11,925.7	10,941.0	10,608.7	14.4	14.2	-0.66	-48.8	1,141.4	1,329.1	1,282.5	46.55	28.552		
12,075.0	11,938.9	10,956.8	10,609.9	14.4	14.4	-0.35	-64.2	1,144.1	1,340.3	1,293.6	46.65	28.730		
12,100.0	11,950.9	10,966.0	10,610.5	14.5	14.5	-0.20	-73.3	1,145.7	1,350.6	1,303.9	46.76	28.886		
12,125.0	11,961.7	10,979.0	10,611.2	14.5	14.6	0.02	-86.1	1,148.0	1,360.0	1,313.1	46.85	29.027		
12,150.0	11,971.4	10,979.0	10,611.2	14.6	14.6	0.00	-86.1	1,148.0	1,368.4	1,321.5	46.95	29.147		
12,175.0	11,979.8	10,993.1	10,611.9	14.6	14.8	0.24	-100.0	1,150.5	1,375.8	1,328.8	47.04	29.250		
12,200.0	11,987.1	11,011.0	10,612.3	14.7	15.0	0.53	-117.6	1,153.5	1,382.4	1,335.3	47.12	29.335		
12,225.0	11,993.0	11,011.0	10,612.3	14.7	15.0	0.51	-117.6	1,153.5	1,387.8	1,340.6	47.20	29.404		
12,250.0	11,997.7	11,011.0	10,612.3	14.8	15.0	0.51	-117.6	1,153.5	1,392.4	1,345.1	47.26	29.462		
12,275.0	12,001.1	11,027.0	10,612.4	14.8	15.2	0.77	-133.4	1,156.1	1,395.8	1,348.5	47.33	29.489		
12,300.0	12,003.2	11,042.0	10,612.2	14.9	15.4	1.01	-148.2	1,158.5	1,398.4	1,351.0	47.40	29.500		
12,325.0	12,004.0	11,045.7	10,612.1	15.0	15.5	1.07	-151.9	1,159.0	1,399.9	1,352.5	47.45	29.501		
12,328.5	12,004.0	11,049.2	10,612.0	15.0	15.5	1.13	-155.3	1,159.6	1,400.1	1,352.6	47.46	29.497		
12,400.0	12,004.0	11,119.0	10,610.5	15.2	16.5	2.33	-224.5	1,169.1	1,402.6	1,354.9	47.72	29.393		
12,500.0	12,003.9	11,237.4	10,609.1	15.5	18.2	4.17	-342.2	1,181.7	1,405.8	1,357.7	48.10	29.227		

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #2H - LATERAL 01 - AV													Offset Site Error:	0.0 usft
Survey Program: 100- VES GyroFlex, 9743-MWD													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
12,600.0	12,003.8	11,324.0	10,608.7	15.9	19.4	5.36	-428.4	1,189.5	1,408.8	1,360.4	48.47	29.066		
12,700.0	12,003.6	11,408.4	10,607.9	16.3	20.7	6.37	-512.5	1,195.5	1,412.4	1,363.5	48.87	28.902		
12,800.0	12,003.5	11,505.2	10,606.7	16.8	22.1	7.29	-609.2	1,201.4	1,416.0	1,366.7	49.34	28.701		
12,900.0	12,003.4	11,595.5	10,605.3	17.2	23.5	7.89	-699.3	1,206.7	1,419.2	1,369.3	49.84	28.477		
13,000.0	12,003.3	11,704.5	10,603.8	17.7	25.1	8.32	-808.2	1,211.5	1,421.6	1,371.2	50.43	28.190		
13,100.0	12,003.2	11,781.6	10,602.3	18.1	26.3	8.40	-885.2	1,215.0	1,423.4	1,372.4	50.98	27.919		
13,114.8	12,003.2	11,797.0	10,601.9	18.2	26.5	8.39	-900.6	1,215.6	1,423.7	1,372.7	51.08	27.873		
13,200.0	12,003.1	11,850.2	10,599.8	18.6	27.3	8.30	-953.7	1,218.0	1,426.4	1,374.9	51.55	27.668		
13,300.0	12,003.0	11,942.9	10,594.6	19.0	28.7	8.15	-1,046.2	1,221.7	1,431.4	1,379.2	52.26	27.392		
13,400.0	12,002.9	12,112.9	10,590.3	19.5	31.3	7.92	-1,216.0	1,227.9	1,433.2	1,379.9	53.32	26.881		
13,442.6	12,002.9	12,152.4	10,590.1	19.8	32.0	7.86	-1,255.4	1,229.5	1,433.2	1,379.5	53.65	26.714		
13,500.0	12,002.8	12,211.6	10,589.7	20.1	32.9	7.78	-1,314.6	1,231.8	1,433.2	1,379.1	54.10	26.490		
13,600.0	12,002.7	12,312.0	10,589.5	20.6	34.5	7.66	-1,414.9	1,235.6	1,432.8	1,377.9	54.90	26.101		
13,619.1	12,002.7	12,329.1	10,589.4	20.7	34.7	7.63	-1,432.0	1,236.3	1,432.8	1,377.8	55.05	26.029		
13,700.0	12,002.6	12,409.7	10,588.9	21.2	36.0	7.51	-1,512.6	1,239.7	1,433.0	1,377.2	55.71	25.720		
13,760.8	12,002.5	12,470.8	10,588.6	21.6	37.0	7.42	-1,573.6	1,242.4	1,432.9	1,376.6	56.23	25.481		
13,800.0	12,002.5	12,501.1	10,588.3	21.8	37.5	7.38	-1,603.8	1,243.6	1,433.0	1,376.5	56.55	25.342		
13,900.0	12,002.4	12,588.8	10,586.7	22.4	38.9	7.28	-1,691.5	1,246.4	1,434.3	1,376.9	57.40	24.988		
14,000.0	12,002.3	12,695.3	10,585.0	23.0	40.5	7.18	-1,798.0	1,249.4	1,435.5	1,377.2	58.34	24.607		
14,100.0	12,002.2	12,783.5	10,583.7	23.7	42.0	7.11	-1,886.1	1,251.6	1,436.7	1,377.5	59.24	24.252		
14,200.0	12,002.1	12,861.0	10,581.4	24.4	43.2	7.05	-1,963.6	1,253.2	1,439.4	1,379.3	60.13	23.939		
14,300.0	12,002.0	12,968.9	10,576.9	25.0	44.9	6.96	-2,071.4	1,255.8	1,443.2	1,382.1	61.16	23.597		
14,400.0	12,001.9	13,086.0	10,574.3	25.7	46.8	6.82	-2,188.3	1,259.7	1,444.9	1,382.7	62.26	23.210		
14,500.0	12,001.8	13,186.2	10,572.0	26.4	48.4	6.66	-2,288.4	1,264.0	1,446.7	1,383.4	63.29	22.857		
14,600.0	12,001.7	13,333.5	10,571.2	27.1	50.8	6.39	-2,435.5	1,271.9	1,446.5	1,382.0	64.50	22.426		
14,700.0	12,001.6	13,425.3	10,572.0	27.9	52.3	6.19	-2,527.1	1,277.5	1,444.9	1,379.3	65.57	22.037		
14,748.9	12,001.5	13,459.7	10,572.0	28.2	52.9	6.12	-2,561.5	1,279.5	1,444.7	1,378.6	66.06	21.867		
14,800.0	12,001.5	13,498.5	10,571.5	28.6	53.5	6.04	-2,600.2	1,281.6	1,444.9	1,378.3	66.59	21.699		
14,900.0	12,001.3	13,591.1	10,570.0	29.3	55.0	5.86	-2,692.7	1,286.8	1,446.0	1,378.3	67.68	21.366		
15,000.0	12,001.2	13,679.3	10,567.8	30.1	56.5	5.68	-2,780.6	1,291.6	1,447.8	1,379.1	68.75	21.058		
15,100.0	12,001.1	13,791.3	10,565.2	30.8	58.3	5.50	-2,892.5	1,296.7	1,449.7	1,379.7	69.93	20.730		
15,200.0	12,001.0	13,898.0	10,563.9	31.6	60.0	5.36	-2,999.1	1,300.7	1,450.5	1,379.4	71.11	20.399		
15,300.0	12,000.9	13,981.1	10,562.3	32.3	61.4	5.27	-3,082.2	1,303.4	1,452.0	1,379.8	72.22	20.105		
15,400.0	12,000.8	14,064.6	10,559.8	33.1	62.8	5.20	-3,165.6	1,305.5	1,454.7	1,381.4	73.34	19.834		
15,500.0	12,000.7	14,168.6	10,556.3	33.9	64.4	5.12	-3,269.5	1,307.8	1,457.8	1,383.3	74.56	19.552		
15,600.0	12,000.6	14,278.3	10,553.1	34.6	66.2	5.04	-3,379.1	1,310.4	1,460.4	1,384.6	75.81	19.264		
15,700.0	12,000.5	14,403.8	10,550.8	35.4	68.3	4.95	-3,504.6	1,313.1	1,462.1	1,385.0	77.14	18.955		
15,800.0	12,000.4	14,518.7	10,550.7	36.2	70.2	4.89	-3,619.5	1,315.3	1,461.9	1,383.5	78.43	18.640		
15,838.8	12,000.4	14,550.4	10,550.8	36.5	70.7	4.88	-3,651.2	1,315.8	1,461.8	1,382.9	78.90	18.527		
15,900.0	12,000.3	14,595.8	10,550.4	37.0	71.4	4.86	-3,696.6	1,316.6	1,462.1	1,382.5	79.63	18.363		
16,000.0	12,000.2	14,708.5	10,549.6	37.8	73.2	4.80	-3,809.2	1,318.8	1,462.6	1,381.6	80.96	18.065		
16,050.6	12,000.2	14,762.3	10,549.8	38.2	74.1	4.77	-3,863.0	1,319.8	1,462.3	1,380.7	81.64	17.913		
16,100.0	12,000.1	14,797.2	10,549.6	38.6	74.7	4.76	-3,898.0	1,320.4	1,462.6	1,380.3	82.24	17.785		
16,200.0	12,000.0	14,897.7	10,548.2	39.4	76.3	4.73	-3,998.4	1,321.7	1,463.8	1,380.2	83.54	17.521		
16,300.0	11,999.9	15,046.6	10,549.0	40.2	78.8	4.74	-4,147.3	1,322.3	1,463.2	1,378.2	84.99	17.216		
16,400.0	11,999.8	15,184.9	10,554.3	41.0	81.0	4.84	-4,285.4	1,321.2	1,459.3	1,372.9	86.38	16.894		
16,500.0	11,999.7	15,286.0	10,560.1	41.8	82.7	4.83	-4,386.4	1,322.5	1,453.4	1,365.7	87.70	16.572		
16,600.0	11,999.6	15,336.9	10,562.1	42.6	83.5	4.79	-4,437.3	1,323.9	1,449.6	1,360.6	89.03	16.282		
16,635.5	11,999.5	15,351.6	10,562.2	42.9	83.7	4.78	-4,451.9	1,324.3	1,449.3	1,359.8	89.47	16.198		
16,700.0	11,999.5	15,380.0	10,561.8	43.4	84.2	4.76	-4,480.3	1,325.1	1,449.9	1,359.7	90.24	16.067		
16,800.0	11,999.4	15,460.5	10,559.1	44.2	85.5	4.65	-4,560.7	1,328.0	1,452.9	1,361.3	91.57	15.866		

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #2H - LATERAL 01 - AV													Offset Site Error:	0.0 usft
Survey Program: 100- VES GyroFlex, 9743-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
16,900.0	11,999.3	15,556.7	10,555.0	45.0	87.1	4.47		-4,656.7	1,333.0	1,456.7	1,363.8	92.89	15.682	
17,000.0	11,999.2	15,652.3	10,550.7	45.8	88.7	4.24		-4,752.0	1,339.0	1,460.6	1,366.4	94.18	15.509	
17,100.0	11,999.1	15,776.8	10,545.8	46.6	90.8	3.95		-4,876.2	1,346.7	1,464.1	1,368.5	95.61	15.314	
17,200.0	11,999.0	15,885.6	10,543.7	47.4	92.6	3.76		-4,984.8	1,352.3	1,465.6	1,368.6	96.99	15.111	
17,300.0	11,998.9	15,956.2	10,541.3	48.3	93.7	3.65		-5,055.3	1,355.4	1,468.5	1,370.3	98.23	14.950	
17,400.0	11,998.8	16,052.9	10,537.2	49.1	95.3	3.50		-5,151.8	1,359.5	1,472.5	1,372.9	99.58	14.787	
17,500.0	11,998.6	16,148.9	10,532.7	49.9	96.9	3.35		-5,247.6	1,363.7	1,476.8	1,375.9	100.91	14.635	
17,600.0	11,998.5	16,260.4	10,528.3	50.7	98.7	3.20		-5,358.9	1,368.1	1,480.5	1,378.2	102.33	14.467	
17,700.0	11,998.4	16,353.9	10,524.2	51.6	100.3	3.07		-5,452.2	1,371.8	1,484.5	1,380.9	103.67	14.320	
17,800.0	11,998.3	16,464.6	10,520.0	52.4	102.1	2.86		-5,562.8	1,377.6	1,488.0	1,382.9	105.09	14.159	
17,900.0	11,998.2	16,559.5	10,516.4	53.2	103.7	2.67		-5,657.4	1,382.9	1,491.4	1,385.0	106.44	14.012	
18,000.0	11,998.1	16,657.2	10,512.3	54.0	105.3	2.44		-5,754.8	1,389.3	1,495.2	1,387.4	107.81	13.869	
18,100.0	11,998.0	16,781.8	10,508.4	54.9	107.4	2.13		-5,879.0	1,398.2	1,497.9	1,388.6	109.30	13.705	
18,200.0	11,997.9	16,893.0	10,506.8	55.7	109.2	1.88		-5,990.0	1,405.3	1,499.0	1,388.3	110.75	13.536	
18,300.0	11,997.8	17,003.6	10,505.3	56.5	111.1	1.66		-6,100.4	1,411.7	1,500.1	1,387.9	112.17	13.373	
18,400.0	11,997.7	17,109.7	10,504.4	57.4	112.8	1.44		-6,206.4	1,418.0	1,500.7	1,387.1	113.59	13.211	
18,500.0	11,997.6	17,212.9	10,504.1	58.2	114.5	1.24		-6,309.3	1,424.0	1,500.8	1,385.7	115.01	13.049	
18,600.0	11,997.5	17,301.4	10,503.4	59.0	116.0	1.08		-6,397.7	1,428.6	1,501.3	1,384.9	116.40	12.898	
18,700.0	11,997.4	17,391.3	10,502.1	59.9	117.5	0.94		-6,487.5	1,433.0	1,502.6	1,384.8	117.80	12.756	
18,800.0	11,997.3	17,476.0	10,500.3	60.7	118.9	0.79		-6,572.1	1,437.3	1,504.6	1,385.4	119.17	12.625	
18,900.0	11,997.2	17,552.0	10,497.4	61.5	120.2	0.67		-6,647.9	1,440.9	1,508.2	1,387.7	120.50	12.516	
19,000.0	11,997.1	17,650.3	10,492.8	62.4	121.8	0.51		-6,746.0	1,445.6	1,512.8	1,390.8	121.94	12.406	
19,100.0	11,997.0	17,773.0	10,488.6	63.2	123.8	0.25		-6,868.4	1,453.2	1,516.0	1,392.5	123.48	12.277	
19,200.0	11,996.9	17,878.2	10,485.3	64.1	125.6	0.03		-6,973.4	1,459.8	1,519.0	1,394.0	124.95	12.156	
19,300.0	11,996.8	17,973.9	10,483.2	64.9	127.2	-0.19		-7,068.9	1,466.0	1,521.1	1,394.7	126.39	12.035	
19,400.0	11,996.7	18,056.2	10,480.1	65.7	128.5	-0.40		-7,150.8	1,472.1	1,524.8	1,397.0	127.78	11.933	
19,500.0	11,996.6	18,171.1	10,476.0	66.6	130.4	-0.73		-7,265.3	1,481.9	1,528.4	1,399.1	129.32	11.819	
19,600.0	11,996.5	18,275.4	10,473.2	67.4	132.2	-1.09		-7,369.0	1,492.0	1,531.0	1,400.2	130.82	11.703	
19,700.0	11,996.4	18,414.6	10,470.8	68.3	134.5	-1.59		-7,507.5	1,506.3	1,533.1	1,400.6	132.45	11.575	
19,800.0	11,996.3	18,554.5	10,472.5	69.1	136.9	-2.08		-7,646.6	1,520.2	1,532.0	1,398.0	134.02	11.432	
19,900.0	11,996.2	18,671.4	10,476.3	69.9	138.8	-2.42		-7,763.0	1,529.8	1,529.0	1,393.4	135.52	11.282	
20,000.0	11,996.1	18,753.9	10,478.9	70.8	140.2	-2.62		-7,845.3	1,535.6	1,526.0	1,389.0	137.05	11.135	
20,100.0	11,996.0	18,843.6	10,480.6	71.6	141.7	-2.80		-7,934.8	1,540.9	1,524.2	1,385.7	138.56	11.000	
20,200.0	11,995.8	18,924.9	10,481.6	72.5	143.0	-2.94		-8,016.1	1,544.9	1,523.1	1,383.1	140.06	10.875	
20,220.0	11,995.8	18,939.8	10,481.7	72.6	143.3	-2.96		-8,030.9	1,545.7	1,523.1	1,382.7	140.36	10.851	
20,300.0	11,995.7	19,000.1	10,481.3	73.3	144.3	-3.06		-8,091.2	1,548.8	1,523.6	1,382.1	141.54	10.765	
20,400.0	11,995.6	19,076.2	10,479.9	74.2	145.5	-3.20		-8,167.1	1,552.9	1,525.7	1,382.7	142.98	10.670	
20,500.0	11,995.5	19,158.0	10,476.9	75.0	146.9	-3.33		-8,248.8	1,557.0	1,529.4	1,385.0	144.43	10.589	
20,600.0	11,995.4	19,268.3	10,473.0	75.9	148.7	-3.48		-8,358.9	1,562.1	1,533.1	1,387.1	146.01	10.500	
20,700.0	11,995.3	19,345.0	10,469.6	76.7	150.0	-3.60		-8,435.4	1,565.8	1,537.5	1,390.1	147.43	10.429	
20,800.0	11,995.2	19,420.2	10,465.2	77.5	151.2	-3.71		-8,510.4	1,569.5	1,543.5	1,394.7	148.80	10.373	
20,900.0	11,995.1	19,558.7	10,457.8	78.4	153.5	-3.90		-8,648.6	1,576.0	1,549.2	1,398.6	150.58	10.288	
21,000.0	11,995.0	19,667.4	10,454.6	79.2	155.3	-4.07		-8,757.1	1,581.4	1,552.3	1,400.1	152.17	10.201	
21,100.0	11,994.9	19,762.0	10,450.7	80.1	156.9	-4.17		-8,851.5	1,585.2	1,556.4	1,402.7	153.69	10.127	
21,200.0	11,994.8	19,866.6	10,447.7	80.9	158.6	-4.29		-8,955.9	1,589.3	1,559.4	1,404.2	155.26	10.044	
21,300.0	11,994.7	19,970.5	10,443.7	81.8	160.3	-4.40		-9,059.7	1,593.2	1,563.4	1,406.6	156.83	9.969	
21,400.0	11,994.6	20,106.8	10,441.1	82.6	162.6	-4.55		-9,195.9	1,598.3	1,565.4	1,406.9	158.49	9.877	
21,500.0	11,994.5	20,217.1	10,440.3	83.5	164.4	-4.69		-9,306.1	1,603.0	1,566.3	1,406.3	160.07	9.785	
21,600.0	11,994.4	20,350.5	10,442.0	84.3	166.6	-4.83		-9,439.4	1,607.4	1,565.1	1,403.5	161.64	9.683	
21,679.3	11,994.3	20,401.0	10,442.9	85.0	167.5	-4.88		-9,489.9	1,608.9	1,563.9	1,401.1	162.85	9.603	
21,700.0	11,994.3	20,401.0	10,442.9	85.2	167.5	-4.88		-9,489.9	1,608.9	1,564.1	1,400.9	163.14	9.588	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #2H - LATERAL 01 - AV													Offset Site Error:	0.0 usft
Survey Program: 100- VES GyroFlex, 9743-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	
21,800.0	11,994.2	20,401.0	10,442.9	86.0	167.5	-4.88	-9,489.9	1,608.9	1,568.6	1,404.5	164.14	9.557 SF		
21,900.0	11,994.1	20,401.0	10,442.9	86.9	167.5	-4.88	-9,489.9	1,608.9	1,579.4	1,414.9	164.52	9.600		
21,979.4	11,994.0	20,401.0	10,442.9	87.6	167.5	-4.88	-9,489.9	1,608.9	1,592.5	1,428.1	164.41	9.686		
21,980.1	11,994.0	20,401.0	10,442.9	87.6	167.5	-4.88	-9,489.9	1,608.9	1,592.6	1,428.8	163.82	9.722		

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #2H - OWB-PILOT HO													Offset Site Error:	0.0 usft
Survey Program: 100- VES GyroFlex													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
0.0	0.0	7.8	7.8	3.0	3.0	61.88		527.1	986.5	1,118.5				
100.0	100.0	118.9	118.9	3.0	3.0	61.91		526.2	986.2	1,117.9	1,111.9	6.00	186.287	
200.0	200.0	221.4	221.4	3.0	3.0	61.95		525.0	985.4	1,116.6	1,110.6	6.01	185.812	
300.0	300.0	319.0	319.0	3.0	3.0	61.98		524.0	984.6	1,115.4	1,109.4	6.03	185.069	
400.0	400.0	419.0	419.0	3.0	3.1	62.01		522.9	984.0	1,114.3	1,108.3	6.05	184.076	
500.0	500.0	517.8	517.8	3.1	3.1	62.04		521.9	983.3	1,113.3	1,107.2	6.09	182.850	
600.0	600.0	616.6	616.5	3.1	3.1	62.07		521.0	982.8	1,112.4	1,106.3	6.13	181.417	
700.0	700.0	721.1	721.0	3.1	3.2	62.09		520.1	982.1	1,111.4	1,105.2	6.19	179.631	
800.0	800.0	826.8	826.8	3.2	3.2	62.11		519.0	980.7	1,109.7	1,103.5	6.25	177.474	
900.0	900.0	921.9	921.8	3.2	3.3	62.17		517.3	979.9	1,108.1	1,101.8	6.32	175.471	
1,000.0	1,000.0	1,014.0	1,013.9	3.2	3.3	62.26		515.3	979.9	1,107.2	1,100.8	6.37	173.835	
1,100.0	1,100.0	1,109.3	1,109.1	3.3	3.4	62.36		513.5	980.4	1,106.7	1,100.3	6.42	172.491	
1,119.9	1,119.9	1,126.9	1,126.8	3.3	3.4	62.38		513.1	980.6	1,106.7	1,100.3	6.42	172.302	
1,200.0	1,200.0	1,200.0	1,199.9	3.4	3.4	62.46		511.9	981.6	1,107.0	1,100.6	6.45	171.581	
1,300.0	1,300.0	1,307.3	1,307.2	3.4	3.5	62.60		509.6	983.2	1,107.4	1,100.9	6.49	170.633	
1,302.4	1,302.4	1,309.5	1,309.3	3.4	3.5	62.60		509.6	983.2	1,107.4	1,100.9	6.49	170.611	
1,400.0	1,400.0	1,400.0	1,399.8	3.5	3.5	62.70		508.0	984.5	1,107.9	1,101.3	6.53	169.730	
1,500.0	1,500.0	1,494.5	1,494.2	3.5	3.6	62.79		507.0	986.2	1,108.9	1,102.3	6.56	169.106	
1,600.0	1,600.0	1,591.9	1,591.7	3.6	3.6	62.89		505.9	988.1	1,110.2	1,103.6	6.59	168.469	
1,700.0	1,700.0	1,692.1	1,691.8	3.7	3.6	62.97		505.2	990.0	1,111.5	1,104.9	6.62	167.838	
1,800.0	1,800.0	1,794.1	1,793.8	3.8	3.7	63.02		504.8	991.6	1,112.8	1,106.1	6.66	167.005	
1,900.0	1,900.0	1,895.7	1,895.4	3.9	3.7	63.04		505.0	992.8	1,113.9	1,107.2	6.70	166.184	
2,000.0	2,000.0	1,989.7	1,989.4	3.9	3.7	63.03		505.7	993.8	1,115.2	1,108.4	6.75	165.197	
2,100.0	2,100.0	2,089.1	2,088.8	4.0	3.7	63.00		506.9	995.0	1,116.8	1,110.0	6.81	164.043	
2,200.0	2,200.0	2,184.9	2,184.5	4.1	3.7	62.96		508.5	996.1	1,118.6	1,111.7	6.87	162.752	
2,300.0	2,300.0	2,274.5	2,274.1	4.2	3.7	62.91		510.3	997.6	1,121.0	1,114.1	6.94	161.466	
2,400.0	2,400.0	2,372.2	2,371.8	4.3	3.7	62.87		512.5	999.9	1,124.2	1,117.1	7.02	160.085	
2,500.0	2,500.0	2,474.0	2,473.6	4.4	3.7	62.83		514.4	1,002.4	1,127.2	1,120.1	7.11	158.510	
2,600.0	2,600.0	2,576.2	2,575.6	4.5	3.8	-14.90		515.8	1,005.0	1,128.4	1,121.2	7.22	156.328	
2,700.0	2,699.8	2,680.9	2,680.3	4.5	3.8	-14.98		517.1	1,007.4	1,125.9	1,118.6	7.35	153.286	
2,801.5	2,800.9	2,778.7	2,778.1	4.6	3.9	-15.13		518.3	1,009.4	1,119.8	1,112.3	7.48	149.757	
2,900.0	2,898.9	2,888.6	2,888.0	4.6	3.9	-15.29		519.4	1,011.7	1,112.1	1,104.4	7.62	145.870	
3,000.0	2,998.3	3,005.5	3,004.9	4.7	4.0	-15.51		520.7	1,012.1	1,102.8	1,095.0	7.77	141.944	
3,100.0	3,097.8	3,106.4	3,105.8	4.7	3.9	-15.75		522.2	1,011.3	1,092.6	1,084.7	7.89	138.457	
3,200.0	3,197.2	3,207.1	3,206.5	4.8	3.9	-16.01		523.9	1,010.2	1,082.3	1,074.3	8.02	135.023	
3,300.0	3,296.7	3,301.2	3,300.5	4.8	4.0	-16.25		525.6	1,009.3	1,072.3	1,064.1	8.14	131.667	
3,400.0	3,396.1	3,402.9	3,402.2	4.9	4.0	-16.53		527.5	1,008.4	1,062.4	1,054.1	8.28	128.296	
3,500.0	3,495.6	3,500.0	3,499.3	5.0	4.0	-16.81		529.6	1,007.5	1,052.5	1,044.1	8.42	125.030	
3,600.0	3,595.0	3,597.9	3,597.1	5.1	4.0	-17.10		531.7	1,006.8	1,042.9	1,034.3	8.56	121.808	
3,700.0	3,694.5	3,697.2	3,696.5	5.1	4.0	-17.39		533.9	1,006.1	1,033.3	1,024.6	8.71	118.655	
3,800.0	3,793.9	3,794.0	3,793.2	5.2	4.1	-17.70		536.3	1,005.4	1,023.9	1,015.0	8.86	115.581	
3,900.0	3,893.4	3,892.6	3,891.8	5.3	4.1	-18.03		539.0	1,004.8	1,014.7	1,005.7	9.01	112.566	
4,000.0	3,992.8	3,992.9	3,992.1	5.4	4.2	-18.31		540.8	1,004.6	1,005.5	996.3	9.18	109.537	
4,100.0	4,092.3	4,092.2	4,091.3	5.4	4.3	-18.54		541.7	1,005.0	996.3	986.9	9.36	106.494	
4,200.0	4,191.7	4,189.1	4,188.2	5.5	4.3	-18.75		542.5	1,005.6	987.2	977.7	9.54	103.506	
4,300.0	4,291.2	4,292.5	4,291.6	5.6	4.4	-18.94		542.8	1,006.4	978.2	968.5	9.73	100.576	
4,400.0	4,390.6	4,392.5	4,391.6	5.7	4.5	-19.08		542.2	1,007.6	968.9	959.0	9.90	97.873	
4,500.0	4,490.0	4,495.5	4,494.6	5.8	4.6	-19.20		541.2	1,008.7	959.4	949.3	10.07	95.304	
4,600.0	4,589.5	4,594.9	4,594.0	5.9	4.6	-19.35		540.5	1,009.4	949.7	939.5	10.23	92.816	
4,700.0	4,688.9	4,695.7	4,694.8	6.0	4.7	-19.53		540.0	1,009.9	940.0	929.6	10.40	90.371	
4,800.0	4,788.4	4,798.9	4,798.0	6.1	4.8	-19.71		539.4	1,010.2	930.0	919.4	10.56	88.072	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #2H - OWB-PILOT HO													Offset Site Error:	0.0 usft
Survey Program: 100- VES GyroFlex													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
4,900.0	4,887.8	4,900.2	4,899.3	6.2	4.8	-19.88		538.4	1,010.3	919.7	909.0	10.70	85.950	
5,000.0	4,987.3	5,001.1	5,000.2	6.3	4.9	-20.07		537.6	1,010.2	909.2	898.4	10.83	83.945	
5,100.0	5,086.7	5,103.4	5,102.5	6.4	4.9	-20.28		536.9	1,009.6	898.5	887.6	10.96	81.997	
5,200.0	5,186.2	5,200.0	5,199.1	6.5	4.9	-20.50		536.3	1,009.0	887.9	876.8	11.09	80.087	
5,300.0	5,285.6	5,302.9	5,302.0	6.6	4.9	-20.76		535.9	1,008.2	877.1	865.9	11.22	78.159	
5,400.0	5,385.1	5,400.5	5,399.6	6.7	4.9	-21.01		535.5	1,007.3	866.3	855.0	11.36	76.247	
5,500.0	5,484.5	5,505.3	5,504.4	6.8	5.0	-21.27		534.8	1,006.2	855.3	843.8	11.51	74.301	
5,600.0	5,584.0	5,603.4	5,602.5	6.9	5.0	-21.50		533.7	1,005.3	844.1	832.4	11.66	72.378	
5,700.0	5,683.4	5,706.1	5,705.1	7.0	5.1	-21.77		532.7	1,004.0	832.7	820.9	11.82	70.440	
5,800.0	5,782.9	5,800.8	5,799.8	7.1	5.1	-22.04		532.0	1,002.7	821.5	809.5	11.98	68.569	
5,900.0	5,882.3	5,901.5	5,900.6	7.2	5.1	-22.33		531.4	1,001.5	810.4	798.3	12.15	66.711	
6,000.0	5,981.7	6,003.6	6,002.7	7.3	5.2	-22.65		530.7	1,000.0	799.2	786.8	12.32	64.849	
6,100.0	6,081.2	6,105.7	6,104.7	7.4	5.2	-22.99		530.0	998.1	787.5	775.0	12.50	62.986	
6,200.0	6,180.6	6,203.9	6,202.9	7.5	5.3	-23.34		529.5	996.0	775.8	763.1	12.68	61.167	
6,300.0	6,280.1	6,295.7	6,294.6	7.6	5.3	-23.70		529.4	994.4	764.7	751.8	12.86	59.470	
6,400.0	6,379.5	6,397.2	6,396.2	7.7	5.4	-24.06		529.1	993.2	754.0	740.9	13.05	57.787	
6,500.0	6,479.0	6,498.2	6,497.2	7.9	5.5	-24.39		528.2	992.1	743.0	729.8	13.24	56.113	
6,600.0	6,578.4	6,595.8	6,594.7	8.0	5.6	-24.73		527.5	990.9	732.0	718.6	13.43	54.490	
6,700.0	6,677.9	6,694.5	6,693.4	8.1	5.6	-25.14		527.3	989.5	721.3	707.6	13.63	52.919	
6,800.0	6,777.3	6,795.5	6,794.4	8.2	5.7	-25.62		527.7	987.6	710.5	696.6	13.83	51.380	
6,900.0	6,876.8	6,891.8	6,890.6	8.3	5.8	-26.08		527.9	985.9	699.8	685.8	14.02	49.912	
7,000.0	6,976.2	6,992.5	6,991.4	8.4	5.8	-26.57		528.2	984.3	689.3	675.1	14.22	48.472	
7,100.0	7,075.7	7,090.3	7,089.2	8.5	5.9	-27.07		528.5	982.7	678.8	664.4	14.42	47.086	
7,200.0	7,175.1	7,188.9	7,187.8	8.7	6.0	-27.58		528.9	981.2	668.6	653.9	14.61	45.752	
7,300.0	7,274.6	7,285.5	7,284.3	8.8	6.0	-28.10		529.4	979.9	658.6	643.8	14.80	44.496	
7,400.0	7,374.0	7,376.5	7,375.3	8.9	6.1	-28.58		530.3	979.4	649.5	634.5	14.96	43.406	
7,500.0	7,473.4	7,473.4	7,472.2	9.0	6.1	-29.08		531.5	979.8	641.5	626.4	15.12	42.435	
7,600.0	7,572.9	7,573.1	7,571.9	9.1	6.2	-29.58		532.7	980.5	633.6	618.3	15.27	41.492	
7,700.0	7,672.3	7,671.6	7,670.4	9.2	6.2	-30.06		533.6	981.4	625.7	610.3	15.42	40.570	
7,800.0	7,771.8	7,771.6	7,770.4	9.4	6.2	-30.49		534.1	982.8	618.1	602.5	15.58	39.658	
7,900.0	7,871.2	7,872.1	7,870.8	9.5	6.3	-30.87		534.0	984.7	610.3	594.5	15.75	38.741	
8,000.0	7,970.7	7,977.1	7,975.8	9.6	6.3	-31.26		533.5	986.4	602.1	586.2	15.93	37.790	
8,100.0	8,070.1	8,078.0	8,076.7	9.7	6.4	-31.68		532.6	987.3	593.2	577.1	16.11	36.811	
8,200.0	8,169.6	8,179.3	8,178.0	9.8	6.5	-32.16		532.1	987.7	584.2	567.9	16.30	35.836	
8,300.0	8,269.0	8,282.6	8,281.3	10.0	6.5	-32.67		531.2	987.7	574.8	558.3	16.50	34.829	
8,400.0	8,368.5	8,380.4	8,379.1	10.1	6.6	-33.15		530.0	987.7	565.0	548.3	16.69	33.851	
8,500.0	8,467.9	8,484.9	8,483.6	10.2	6.7	-33.65		528.4	987.9	555.3	538.4	16.90	32.854	
8,600.0	8,567.4	8,588.4	8,587.1	10.3	6.8	-34.21		526.4	986.9	544.5	527.4	17.12	31.811	
8,700.0	8,666.8	8,688.5	8,687.2	10.5	6.9	-34.82		524.5	985.4	533.4	516.1	17.33	30.784	
8,800.0	8,766.3	8,790.9	8,789.5	10.6	7.0	-35.52		522.5	983.3	522.0	504.5	17.55	29.745	
8,900.0	8,865.7	8,891.2	8,889.8	10.7	7.0	-36.34		520.8	980.2	510.2	492.5	17.76	28.723	
9,000.0	8,965.2	8,989.1	8,987.6	10.8	7.1	-37.22		519.4	977.0	498.5	480.6	17.96	27.751	
9,100.0	9,064.6	9,084.4	9,082.8	11.0	7.2	-38.16		518.7	973.8	487.5	469.3	18.15	26.859	
9,200.0	9,164.0	9,182.9	9,181.3	11.1	7.3	-39.17		518.3	970.9	477.1	458.7	18.35	26.003	
9,300.0	9,263.5	9,286.2	9,284.5	11.2	7.4	-40.31		517.7	967.4	466.5	447.9	18.57	25.123	
9,400.0	9,362.9	9,386.6	9,384.8	11.3	7.5	-41.65		517.4	962.5	455.3	436.5	18.77	24.263	
9,500.0	9,462.4	9,482.2	9,480.3	11.5	7.6	-43.18		518.2	956.6	444.6	425.7	18.92	23.495	
9,600.0	9,561.8	9,581.1	9,578.9	11.6	7.6	-44.92		519.7	950.3	434.7	415.6	19.09	22.776	
9,700.0	9,661.3	9,678.7	9,676.3	11.7	7.7	-46.59		520.6	944.8	425.2	405.9	19.24	22.100	
9,800.0	9,760.7	9,778.1	9,775.6	11.8	7.8	-48.27		521.4	939.8	416.2	396.8	19.40	21.457	
9,900.0	9,860.2	9,876.8	9,874.2	12.0	7.9	-50.01		522.0	934.9	407.4	387.9	19.55	20.846	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #2H - OWB-PILOT HO													Offset Site Error:	0.0 usft
Survey Program: 100- VES GyroFlex													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
10,000.0	9,959.6	9,978.3	9,975.6	12.1	8.0	-51.81		522.2	930.2	398.9	379.2	19.71	20.241	
10,100.0	10,059.1	10,077.2	10,074.4	12.2	8.1	-53.55		521.8	925.8	390.2	370.3	19.85	19.655	
10,200.0	10,158.5	10,176.1	10,173.2	12.3	8.2	-55.25		521.0	922.3	381.9	361.9	20.00	19.101	
10,300.0	10,258.0	10,273.0	10,270.1	12.5	8.3	-56.97		520.5	918.9	374.3	354.1	20.12	18.601	
10,400.0	10,357.4	10,372.8	10,369.8	12.6	8.4	-58.70		520.1	916.3	367.3	347.1	20.26	18.131	
10,500.0	10,456.9	10,472.8	10,469.8	12.7	8.5	-60.55		519.4	913.3	360.3	340.0	20.39	17.672	
10,600.0	10,556.3	10,568.1	10,565.0	12.8	8.6	-62.53		519.2	909.5	354.1	333.6	20.48	17.292	
10,700.0	10,655.7	10,666.0	10,662.8	13.0	8.7	-64.65		520.1	905.8	349.3	328.7	20.56	16.988	
10,800.0	10,755.2	10,766.9	10,763.7	13.1	8.9	-66.95		520.8	901.6	344.8	324.1	20.64	16.701	
10,900.0	10,854.6	10,869.3	10,866.0	13.2	9.0	-69.11		520.4	898.6	340.0	319.2	20.75	16.383	
11,000.0	10,954.1	10,970.6	10,967.2	13.4	9.1	-71.09		519.0	896.7	334.7	313.8	20.88	16.033	
11,100.0	11,053.5	11,071.8	11,068.5	13.5	9.2	-72.94		516.9	895.9	329.3	308.3	21.02	15.667	
11,200.0	11,153.0	11,172.3	11,168.9	13.6	9.3	-74.79		514.3	895.3	323.7	302.6	21.16	15.300	
11,265.4	11,218.0	11,220.0	11,216.6	13.7	9.3	-75.70		512.9	895.0	320.6	299.4	21.20	15.123 CC, ES	
11,300.0	11,252.4	11,220.0	11,216.6	13.8	9.3	-75.70		512.9	895.0	322.5	300.4	22.03	14.636	
11,400.0	11,351.9	11,220.0	11,216.6	13.9	9.3	-75.70		512.9	895.0	347.7	319.4	28.35	12.266	
11,500.0	11,451.3	11,220.0	11,216.6	14.0	9.3	-75.70		512.9	895.0	397.3	362.1	35.17	11.296 SF	
11,594.8	11,545.6	11,220.0	11,216.6	14.1	9.3	-75.70		512.9	895.0	459.7	419.7	39.99	11.495	
11,600.0	11,550.8	11,220.0	11,216.6	14.2	9.3	-80.70		512.9	895.0	463.4	423.1	40.31	11.497	
11,625.0	11,575.6	11,220.0	11,216.6	14.2	9.3	-98.53		512.9	895.0	482.3	441.0	41.26	11.689	
11,650.0	11,600.3	11,220.0	11,216.6	14.2	9.3	-107.94		512.9	895.0	502.3	460.2	42.08	11.938	
11,675.0	11,624.7	11,220.0	11,216.6	14.2	9.3	-112.22		512.9	895.0	523.3	480.6	42.77	12.235	
11,700.0	11,649.0	11,220.0	11,216.6	14.2	9.3	-113.29		512.9	895.0	545.2	501.8	43.36	12.573	
11,725.0	11,672.9	11,220.0	11,216.6	14.2	9.3	-112.02		512.9	895.0	567.7	523.8	43.86	12.945	
11,750.0	11,696.4	11,220.0	11,216.6	14.2	9.3	-108.77		512.9	895.0	590.7	546.5	44.26	13.346	
11,775.0	11,719.4	11,220.0	11,216.6	14.2	9.3	-103.62		512.9	895.0	614.2	569.6	44.59	13.773	
11,800.0	11,741.9	11,220.0	11,216.6	14.2	9.3	-96.61		512.9	895.0	638.0	593.1	44.86	14.221	
11,825.0	11,763.9	11,220.0	11,216.6	14.2	9.3	-87.90		512.9	895.0	661.9	616.9	45.07	14.688	
11,850.0	11,785.1	11,220.0	11,216.6	14.2	9.3	-77.96		512.9	895.0	686.0	640.8	45.22	15.171	
11,875.0	11,805.7	11,220.0	11,216.6	14.2	9.3	-67.56		512.9	895.0	710.2	664.9	45.32	15.669	
11,900.0	11,825.6	11,220.0	11,216.6	14.3	9.3	-57.61		512.9	895.0	734.3	689.0	45.38	16.180	
11,925.0	11,844.6	11,220.0	11,216.6	14.3	9.3	-48.75		512.9	895.0	758.4	713.0	45.40	16.703	
11,950.0	11,862.7	11,220.0	11,216.6	14.3	9.3	-41.25		512.9	895.0	782.3	736.9	45.39	17.237	
11,975.0	11,880.0	11,220.0	11,216.6	14.3	9.3	-35.08		512.9	895.0	806.1	760.8	45.33	17.781	
12,000.0	11,896.2	11,220.0	11,216.6	14.3	9.3	-30.06		512.9	895.0	829.6	784.4	45.25	18.335	
12,025.0	11,911.5	11,220.0	11,216.6	14.4	9.3	-25.98		512.9	895.0	852.8	807.7	45.13	18.897	
12,050.0	11,925.7	11,220.0	11,216.6	14.4	9.3	-22.65		512.9	895.0	875.8	830.8	44.98	19.469	
12,075.0	11,938.9	11,220.0	11,216.6	14.4	9.3	-19.90		512.9	895.0	898.4	853.6	44.81	20.049	
12,100.0	11,950.9	11,220.0	11,216.6	14.5	9.3	-17.62		512.9	895.0	920.6	876.0	44.61	20.637	
12,125.0	11,961.7	11,220.0	11,216.6	14.5	9.3	-15.70		512.9	895.0	942.4	898.0	44.38	21.234	
12,150.0	11,971.4	11,220.0	11,216.6	14.6	9.3	-14.06		512.9	895.0	963.7	919.6	44.13	21.838	
12,175.0	11,979.8	11,220.0	11,216.6	14.6	9.3	-12.67		512.9	895.0	984.6	940.7	43.85	22.452	
12,200.0	11,987.1	11,220.0	11,216.6	14.7	9.3	-11.46		512.9	895.0	1,004.9	961.4	43.55	23.074	
12,225.0	11,993.0	11,220.0	11,216.6	14.7	9.3	-10.40		512.9	895.0	1,024.8	981.6	43.23	23.704	
12,250.0	11,997.7	11,220.0	11,216.6	14.8	9.3	-9.47		512.9	895.0	1,044.1	1,001.2	42.89	24.344	
12,275.0	12,001.1	11,220.0	11,216.6	14.8	9.3	-8.64		512.9	895.0	1,062.8	1,020.3	42.53	24.992	
12,300.0	12,003.2	11,220.0	11,216.6	14.9	9.3	-7.90		512.9	895.0	1,081.0	1,038.8	42.14	25.650	
12,325.0	12,004.0	11,220.0	11,216.6	15.0	9.3	-7.24		512.9	895.0	1,098.5	1,056.8	41.74	26.317	
12,328.5	12,004.0	11,220.0	11,216.6	15.0	9.3	-7.15		512.9	895.0	1,101.0	1,059.3	41.68	26.414	
12,400.0	12,004.0	11,220.0	11,216.6	15.2	9.3	-4.32		512.9	895.0	1,151.3	1,110.7	40.55	28.394	
12,500.0	12,003.9	11,220.0	11,216.6	15.5	9.3	0.11		512.9	895.0	1,225.5	1,186.4	39.07	31.368	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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

WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #2H - OWB-PILOT HO												Offset Site Error:		0.0 usft	
Survey Program: 100- VES GyroFlex												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)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
12,600.0	12,003.8	11,220.0	11,216.6	15.9	9.3	5.04	512.9	895.0	1,303.1	1,265.4	37.73	34.535			
12,700.0	12,003.6	11,220.0	11,216.6	16.3	9.3	10.36	512.9	895.0	1,383.3	1,346.7	36.54	37.853			
12,800.0	12,003.5	11,220.0	11,216.6	16.8	9.3	15.92	512.9	895.0	1,465.2	1,429.7	35.49	41.281			
12,900.0	12,003.4	11,220.0	11,216.6	17.2	9.3	21.56	512.9	895.0	1,548.2	1,513.6	34.57	44.783			
13,000.0	12,003.3	11,220.0	11,216.6	17.7	9.3	27.11	512.9	895.0	1,631.7	1,598.0	33.76	48.327			
13,100.0	12,003.2	11,220.0	11,216.6	18.1	9.3	32.41	512.9	895.0	1,715.4	1,682.3	33.06	51.883			
13,114.8	12,003.2	11,220.0	11,216.6	18.2	9.3	33.17	512.9	895.0	1,727.8	1,694.8	32.97	52.411			
13,200.0	12,003.1	11,220.0	11,216.6	18.6	9.3	33.17	512.9	895.0	1,799.5	1,767.1	32.45	55.456			
13,300.0	12,003.0	11,220.0	11,216.6	19.0	9.3	33.17	512.9	895.0	1,885.2	1,853.3	31.91	59.081			
13,400.0	12,002.9	11,220.0	11,216.6	19.5	9.3	33.17	512.9	895.0	1,972.2	1,940.8	31.43	62.752			

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #5H - OWB - ACTUAL												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_GC+WIR+DPIPE, 8399-MWD												Offset Well Error:	0.0 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	0.0	-25.06	498.3	-233.0	550.1				
100.0	100.0	98.9	98.9	3.0	0.1	-25.12	498.0	-233.5	550.0	546.9	3.08	178.733	
200.0	200.0	198.4	198.4	3.0	0.3	-25.23	497.4	-234.4	549.9	546.6	3.29	167.197	
300.0	300.0	298.1	298.1	3.0	0.5	-25.36	496.9	-235.5	549.8	546.3	3.51	156.784	
400.0	400.0	398.4	398.4	3.0	0.7	-25.49	496.3	-236.6	549.8	546.1	3.73	147.344	
500.0	500.0	499.3	499.2	3.1	0.9	-25.64	495.5	-237.8	549.6	545.7	3.96	138.735	
600.0	600.0	599.5	599.5	3.1	1.2	-25.81	494.6	-239.2	549.4	545.2	4.20	130.939	
700.0	700.0	699.3	699.3	3.1	1.4	-25.97	493.7	-240.5	549.1	544.7	4.43	123.866	
751.1	751.1	749.1	749.1	3.1	1.5	-26.06	493.3	-241.2	549.1	544.5	4.55	120.577 CC	
800.0	800.0	796.8	796.8	3.2	1.6	-26.15	493.0	-242.0	549.1	544.5	4.67	117.581	
900.0	900.0	896.8	896.8	3.2	1.8	-26.33	492.4	-243.7	549.4	544.5	4.92	111.737	
1,000.0	1,000.0	996.9	996.7	3.2	2.0	-26.51	491.8	-245.3	549.6	544.4	5.17	106.365	
1,100.0	1,100.0	1,098.1	1,098.0	3.3	2.2	-26.68	491.2	-246.9	549.7	544.3	5.42	101.346	
1,200.0	1,200.0	1,198.4	1,198.3	3.4	2.5	-26.84	490.5	-248.2	549.7	544.0	5.68	96.727	
1,300.0	1,300.0	1,298.3	1,298.2	3.4	2.7	-26.99	489.8	-249.4	549.7	543.7	5.94	92.464	
1,321.4	1,321.4	1,319.5	1,319.4	3.4	2.7	-27.02	489.6	-249.7	549.6	543.6	6.00	91.601	
1,400.0	1,400.0	1,397.4	1,397.3	3.5	2.9	-27.13	489.2	-250.7	549.7	543.5	6.21	88.553	
1,500.0	1,500.0	1,496.7	1,496.6	3.5	3.1	-27.25	488.9	-251.8	549.9	543.4	6.47	84.932 ES	
1,600.0	1,600.0	1,595.7	1,595.6	3.6	3.3	-27.35	488.7	-252.8	550.2	543.5	6.74	81.590	
1,700.0	1,700.0	1,693.5	1,693.3	3.7	3.5	-27.42	489.0	-253.7	550.9	543.9	7.01	78.538	
1,800.0	1,800.0	1,793.5	1,793.3	3.8	3.7	-27.43	489.7	-254.2	551.8	544.5	7.29	75.652	
1,900.0	1,900.0	1,892.8	1,892.6	3.9	3.9	-27.41	490.6	-254.4	552.7	545.1	7.57	72.965	
2,000.0	2,000.0	1,992.7	1,992.5	3.9	4.1	-27.38	491.6	-254.6	553.7	545.8	7.86	70.442	
2,100.0	2,100.0	2,093.0	2,092.9	4.0	4.3	-27.34	492.6	-254.7	554.6	546.5	8.15	68.060	
2,200.0	2,200.0	2,193.7	2,193.5	4.1	4.5	-27.28	493.7	-254.6	555.5	547.1	8.44	65.807	
2,300.0	2,300.0	2,296.0	2,295.8	4.2	4.8	-27.23	494.5	-254.5	556.1	547.4	8.74	63.631	
2,400.0	2,400.0	2,398.7	2,398.6	4.3	5.0	-27.24	494.6	-254.6	556.2	547.2	9.04	61.547	
2,500.0	2,500.0	2,503.3	2,503.1	4.4	5.2	-27.31	493.8	-254.9	555.7	546.4	9.34	59.516	
2,600.0	2,600.0	2,604.1	2,603.9	4.5	5.4	-105.31	492.4	-255.4	555.2	545.6	9.59	57.887	
2,634.5	2,634.4	2,639.6	2,639.4	4.5	5.5	-105.50	491.8	-255.6	555.2	545.5	9.67	57.422	
2,700.0	2,699.8	2,707.0	2,706.8	4.5	5.6	-105.97	490.6	-255.9	555.3	545.5	9.81	56.614	
2,801.5	2,800.9	2,812.0	2,811.8	4.6	5.8	-106.96	488.4	-255.6	555.8	545.8	10.02	55.443	
2,900.0	2,898.9	2,915.2	2,914.9	4.6	6.0	-108.02	485.9	-254.2	556.2	545.9	10.24	54.330	
2,995.0	2,993.4	3,010.6	3,010.3	4.7	6.2	-108.88	483.7	-251.5	556.1	545.7	10.44	53.284	
3,000.0	2,998.3	3,015.3	3,014.9	4.7	6.2	-108.92	483.6	-251.3	556.1	545.6	10.45	53.235	
3,100.0	3,097.8	3,108.2	3,107.8	4.7	6.4	-109.60	482.9	-247.8	556.8	546.2	10.65	52.302	
3,200.0	3,197.2	3,204.5	3,204.0	4.8	6.6	-110.20	483.3	-243.7	558.6	547.7	10.86	51.448	
3,300.0	3,296.7	3,300.0	3,299.4	4.8	6.8	-110.77	484.5	-239.9	561.1	550.0	11.07	50.701	
3,400.0	3,396.1	3,398.6	3,397.9	4.9	7.0	-111.36	486.0	-236.3	564.2	552.9	11.29	49.997	
3,500.0	3,495.6	3,490.8	3,490.0	5.0	7.2	-111.96	487.8	-233.7	568.1	556.6	11.49	49.436	
3,600.0	3,595.0	3,591.3	3,590.5	5.1	7.4	-112.69	489.7	-232.0	572.7	561.0	11.71	48.887	
3,700.0	3,694.5	3,693.6	3,692.8	5.1	7.6	-113.49	490.9	-230.6	577.0	565.1	11.94	48.318	
3,800.0	3,793.9	3,793.2	3,792.4	5.2	7.8	-114.29	491.8	-229.3	581.2	569.1	12.17	47.773	
3,900.0	3,893.4	3,894.5	3,893.7	5.3	8.0	-115.08	492.5	-227.9	585.4	573.0	12.40	47.224	
4,000.0	3,992.8	3,998.3	3,997.5	5.4	8.2	-115.87	493.0	-226.0	589.2	576.5	12.63	46.639	
4,100.0	4,092.3	4,100.4	4,099.6	5.4	8.5	-116.62	493.1	-223.7	592.5	579.6	12.87	46.041	
4,200.0	4,191.7	4,202.1	4,201.2	5.5	8.7	-117.37	492.9	-221.2	595.5	582.4	13.11	45.436	
4,300.0	4,291.2	4,304.0	4,303.1	5.6	8.9	-118.14	492.1	-218.7	598.3	584.9	13.35	44.824	
4,400.0	4,390.6	4,403.2	4,402.3	5.7	9.1	-118.92	491.0	-216.4	601.0	587.4	13.59	44.237	
4,500.0	4,490.0	4,503.3	4,502.3	5.8	9.3	-119.69	490.0	-214.1	603.8	590.0	13.83	43.663	
4,600.0	4,589.5	4,602.8	4,601.8	5.9	9.5	-120.46	488.9	-211.8	606.8	592.7	14.08	43.107	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #5H - OWB - ACTUAL												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_GC+WIR+DPIPE, 8399-MWD												Offset Well Error:	0.0 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
4,700.0	4,688.9	4,702.1	4,701.0	6.0	9.7	-121.21	487.9	-209.5	609.8	595.5	14.33	42.570	
4,800.0	4,788.4	4,802.1	4,801.0	6.1	9.9	-121.96	486.8	-207.2	613.0	598.4	14.58	42.045	
4,900.0	4,887.8	4,901.2	4,900.1	6.2	10.1	-122.70	485.8	-205.0	616.3	601.4	14.84	41.540	
5,000.0	4,987.3	5,000.0	4,998.9	6.3	10.3	-123.43	484.8	-202.7	619.7	604.6	15.10	41.051	
5,100.0	5,086.7	5,081.7	5,080.5	6.4	10.5	-124.02	484.9	-201.6	624.7	609.4	15.33	40.754	
5,200.0	5,186.2	5,169.8	5,168.6	6.5	10.7	-124.64	486.5	-202.2	632.3	616.8	15.57	40.600	
5,300.0	5,285.6	5,265.0	5,263.8	6.6	10.9	-125.31	489.0	-203.7	641.3	625.5	15.84	40.493	
5,400.0	5,385.1	5,364.2	5,362.9	6.7	11.1	-125.98	491.7	-205.4	650.6	634.5	16.11	40.383	
5,500.0	5,484.5	5,463.4	5,462.1	6.8	11.3	-126.64	494.4	-207.1	659.9	643.5	16.39	40.270	
5,600.0	5,584.0	5,561.8	5,560.4	6.9	11.5	-127.28	497.1	-208.9	669.4	652.7	16.67	40.165	
5,700.0	5,683.4	5,661.6	5,660.2	7.0	11.7	-127.91	499.8	-210.8	679.0	662.1	16.95	40.061	
5,800.0	5,782.9	5,761.7	5,760.2	7.1	11.9	-128.52	502.6	-212.5	688.6	671.4	17.24	39.946	
5,900.0	5,882.3	5,862.3	5,860.8	7.2	12.1	-129.11	505.3	-214.1	698.1	680.6	17.53	39.824	
6,000.0	5,981.7	5,963.0	5,961.4	7.3	12.4	-129.68	507.9	-215.4	707.5	689.7	17.83	39.690	
6,100.0	6,081.2	6,073.8	6,072.2	7.4	12.6	-130.33	510.0	-216.7	716.3	698.2	18.14	39.494	
6,200.0	6,180.6	6,178.2	6,176.6	7.5	12.8	-131.01	510.1	-217.2	723.6	705.2	18.44	39.234	
6,300.0	6,280.1	6,277.4	6,275.8	7.6	13.0	-131.66	510.0	-217.6	730.9	712.1	18.75	38.988	
6,400.0	6,379.5	6,376.8	6,375.2	7.7	13.2	-132.29	509.9	-218.1	738.2	719.2	19.05	38.752	
6,500.0	6,479.0	6,476.7	6,475.1	7.9	13.4	-132.93	509.6	-218.6	745.7	726.3	19.36	38.519	
6,600.0	6,578.4	6,576.6	6,575.0	8.0	13.6	-133.56	509.2	-219.1	753.1	733.4	19.67	38.289	
6,700.0	6,677.9	6,675.5	6,673.9	8.1	13.9	-134.18	508.8	-219.7	760.6	740.6	19.98	38.068	
6,800.0	6,777.3	6,777.7	6,776.1	8.2	14.1	-134.82	508.2	-220.2	768.1	747.8	20.30	37.843	
6,900.0	6,876.8	6,878.3	6,876.6	8.3	14.3	-135.46	507.0	-220.7	775.4	754.8	20.62	37.611	
7,000.0	6,976.2	6,979.6	6,977.9	8.4	14.5	-136.19	504.8	-221.7	782.6	761.7	20.94	37.376	
7,100.0	7,075.7	7,078.2	7,076.4	8.5	14.7	-137.02	500.9	-223.5	789.8	768.6	21.26	37.145	
7,200.0	7,175.1	7,176.4	7,174.5	8.7	14.9	-137.84	497.0	-225.5	797.3	775.7	21.59	36.931	
7,300.0	7,274.6	7,274.6	7,272.6	8.8	15.1	-138.64	493.2	-227.5	805.1	783.2	21.92	36.731	
7,400.0	7,374.0	7,372.9	7,370.9	8.9	15.3	-139.43	489.4	-229.6	813.1	790.8	22.25	36.545	
7,500.0	7,473.4	7,476.0	7,473.9	9.0	15.5	-140.24	485.4	-231.8	821.1	798.5	22.59	36.353	
7,600.0	7,572.9	7,577.6	7,575.3	9.1	15.8	-141.06	480.7	-233.6	828.8	805.9	22.93	36.149	
7,700.0	7,672.3	7,676.1	7,673.7	9.2	16.0	-141.85	475.9	-235.4	836.6	813.3	23.27	35.956	
7,800.0	7,771.8	7,774.7	7,772.2	9.4	16.2	-142.61	471.4	-237.2	844.5	820.9	23.61	35.778	
7,900.0	7,871.2	7,874.6	7,871.9	9.5	16.4	-143.35	467.1	-238.9	852.7	828.7	23.95	35.606	
8,000.0	7,970.7	7,973.6	7,970.9	9.6	16.6	-144.06	463.0	-240.3	860.8	836.6	24.29	35.441	
8,100.0	8,070.1	8,074.8	8,072.0	9.7	16.8	-144.77	458.7	-241.8	869.1	844.4	24.63	35.279	
8,200.0	8,169.6	8,176.1	8,173.2	9.8	17.0	-145.49	454.0	-243.2	877.2	852.2	24.98	35.112	
8,300.0	8,269.0	8,275.3	8,272.2	10.0	17.2	-146.20	449.1	-244.4	885.2	859.9	25.33	34.950	
8,400.0	8,368.5	8,376.9	8,373.7	10.1	17.4	-146.91	444.1	-245.7	893.4	867.7	25.64	34.842	
8,500.0	8,467.9	8,476.8	8,473.5	10.2	17.4	-147.59	439.1	-246.6	901.4	875.6	25.81	34.920	
8,600.0	8,567.4	8,579.0	8,575.6	10.3	17.5	-148.22	434.8	-247.1	909.3	883.4	25.97	35.021	
8,700.0	8,666.8	8,676.5	8,672.9	10.5	17.5	-148.83	430.3	-247.6	917.2	891.1	26.13	35.101	
8,800.0	8,766.3	8,783.2	8,779.1	10.6	18.2	-149.84	420.1	-249.9	925.4	899.0	26.33	35.140	
8,900.0	8,865.7	8,875.1	8,868.0	10.7	19.9	-151.53	397.8	-255.2	933.0	906.4	26.61	35.069	
9,000.0	8,965.2	8,962.7	8,948.8	10.8	21.7	-153.83	365.5	-264.5	943.2	916.2	27.00	34.934	
9,100.0	9,064.6	9,047.1	9,022.1	11.0	23.0	-156.56	325.2	-275.1	955.2	927.6	27.59	34.619	
9,200.0	9,164.0	9,106.0	9,069.7	11.1	23.8	-158.77	291.6	-284.0	971.5	943.2	28.29	34.336	
9,300.0	9,263.5	9,138.0	9,093.8	11.2	23.9	-160.06	271.4	-289.7	994.1	965.1	29.04	34.232	
9,400.0	9,362.9	9,179.7	9,122.9	11.3	23.9	-161.87	242.9	-298.5	1,023.6	993.7	29.91	34.217	
9,500.0	9,462.4	9,217.0	9,147.2	11.5	24.0	-163.54	215.9	-307.4	1,059.7	1,028.8	30.84	34.364	
9,600.0	9,561.8	9,307.9	9,197.9	11.6	24.1	-167.90	142.9	-325.6	1,100.2	1,068.0	32.16	34.209 SF	
9,700.0	9,661.3	9,328.0	9,207.3	11.7	24.1	-168.90	125.5	-328.8	1,145.8	1,112.7	33.07	34.646	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #5H - OWB - ACTUAL												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_GC+WIR+DPIPE, 8399-MWD												Offset Well Error:	0.0 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
9,800.0	9,760.7	9,347.0	9,215.4	11.8	24.1	-169.87	108.6	-331.9	1,197.3	1,163.4	33.95	35.267	
9,900.0	9,860.2	9,360.0	9,220.5	12.0	24.1	-170.54	96.8	-334.1	1,254.3	1,219.5	34.75	36.094	
10,000.0	9,959.6	9,360.0	9,220.5	12.1	24.1	-170.54	96.8	-334.1	1,316.2	1,280.8	35.42	37.161	
10,100.0	10,059.1	9,379.0	9,227.2	12.2	24.1	-171.52	79.3	-337.3	1,382.2	1,346.0	36.19	38.197	
10,200.0	10,158.5	9,391.0	9,230.9	12.3	24.1	-172.15	68.1	-339.4	1,452.0	1,415.1	36.86	39.394	
10,300.0	10,258.0	9,391.0	9,230.9	12.5	24.1	-172.15	68.1	-339.4	1,525.0	1,487.6	37.41	40.767	
10,400.0	10,357.4	9,391.0	9,230.9	12.6	24.1	-172.15	68.1	-339.4	1,601.0	1,563.1	37.93	42.212	
10,500.0	10,456.9	9,391.0	9,230.9	12.7	24.1	-172.15	68.1	-339.4	1,679.5	1,641.0	38.42	43.712	
10,600.0	10,556.3	9,406.7	9,235.3	12.8	24.2	-172.97	53.2	-342.2	1,759.7	1,720.7	39.00	45.116	
10,700.0	10,655.7	9,423.0	9,239.0	13.0	24.2	-173.82	37.7	-345.4	1,842.3	1,802.7	39.57	46.558	
10,800.0	10,755.2	9,423.0	9,239.0	13.1	24.2	-173.82	37.7	-345.4	1,926.2	1,886.2	40.00	48.150	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #6H - OWB - ACTUAL													Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8667-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	-22.16	498.5	-203.0	538.3					
100.0	100.0	94.0	94.0	3.0	3.0	-22.16	498.9	-203.1	538.6	532.6	6.00	89.766		
200.0	200.0	194.1	194.1	3.0	3.0	-22.16	499.6	-203.5	539.4	533.4	6.01	89.763		
300.0	300.0	293.7	293.7	3.0	3.0	-22.17	500.3	-203.8	540.2	534.2	6.03	89.604		
400.0	400.0	394.6	394.6	3.0	3.0	-22.18	501.0	-204.3	541.1	535.0	6.06	89.286		
500.0	500.0	501.1	501.1	3.1	3.0	-22.28	500.8	-205.2	541.2	535.1	6.09	88.854		
600.0	600.0	601.7	601.7	3.1	3.1	-22.45	499.6	-206.4	540.6	534.5	6.12	88.355		
700.0	700.0	702.0	702.0	3.1	3.1	-22.47	499.0	-206.4	540.0	533.8	6.15	87.812		
800.0	800.0	802.6	802.6	3.2	3.1	-22.36	498.7	-205.2	539.3	533.1	6.19	87.134		
900.0	900.0	903.9	903.8	3.2	3.1	-22.22	498.4	-203.6	538.4	532.1	6.24	86.317		
1,000.0	1,000.0	1,005.1	1,005.1	3.2	3.1	-22.06	497.8	-201.8	537.2	530.9	6.29	85.375		
1,100.0	1,100.0	1,105.1	1,105.0	3.3	3.1	-21.89	497.3	-199.8	536.0	529.7	6.35	84.348		
1,200.0	1,200.0	1,206.1	1,206.0	3.4	3.1	-21.69	496.7	-197.6	534.6	528.2	6.42	83.213		
1,300.0	1,300.0	1,305.4	1,305.3	3.4	3.1	-21.49	496.1	-195.3	533.2	526.7	6.50	82.007		
1,400.0	1,400.0	1,404.8	1,404.6	3.5	3.2	-21.25	495.7	-192.8	532.0	525.4	6.58	80.794		
1,500.0	1,500.0	1,504.1	1,503.9	3.5	3.2	-21.02	495.5	-190.4	530.8	524.2	6.67	79.555		
1,571.1	1,571.1	1,569.6	1,569.4	3.6	3.2	-20.89	495.4	-189.1	530.3	523.6	6.74	78.719		
1,600.0	1,600.0	1,594.7	1,594.4	3.6	3.2	-20.85	495.7	-188.8	530.4	523.7	6.76	78.447		
1,700.0	1,700.0	1,692.3	1,692.0	3.7	3.3	-20.75	497.0	-188.3	531.5	524.7	6.85	77.591		
1,800.0	1,800.0	1,792.6	1,792.3	3.8	3.3	-20.61	498.6	-187.5	532.7	525.7	6.95	76.686		
1,900.0	1,900.0	1,892.7	1,892.4	3.9	3.4	-20.47	500.1	-186.7	533.8	526.8	7.05	75.736		
2,000.0	2,000.0	1,992.4	1,992.1	3.9	3.4	-20.31	501.6	-185.7	534.9	527.8	7.16	74.751		
2,100.0	2,100.0	2,091.9	2,091.6	4.0	3.5	-20.16	503.3	-184.8	536.2	528.9	7.27	73.758		
2,200.0	2,200.0	2,193.2	2,192.9	4.1	3.5	-19.99	504.9	-183.7	537.3	529.9	7.39	72.721		
2,300.0	2,300.0	2,301.7	2,301.4	4.2	3.6	-19.86	505.7	-182.7	537.7	530.2	7.51	71.591		
2,400.0	2,400.0	2,407.8	2,407.5	4.3	3.6	-19.95	504.1	-183.0	536.3	528.7	7.63	70.330		
2,500.0	2,500.0	2,507.0	2,506.6	4.4	3.6	-20.10	502.1	-183.7	534.7	527.0	7.75	69.029		
2,600.0	2,600.0	2,608.4	2,608.0	4.5	3.6	-98.19	499.9	-184.5	533.2	525.4	7.83	68.074		
2,700.0	2,699.8	2,712.8	2,712.4	4.5	3.6	-99.01	497.3	-185.6	532.0	524.1	7.88	67.482		
2,801.5	2,800.9	2,817.7	2,817.2	4.6	3.7	-100.27	493.2	-186.6	530.2	522.3	7.93	66.829		
2,900.0	2,898.9	2,916.7	2,916.0	4.6	3.7	-101.61	489.2	-187.2	528.7	520.7	7.98	66.240		
3,000.0	2,998.3	3,016.3	3,015.6	4.7	3.7	-102.97	485.1	-187.9	527.5	519.5	8.03	65.658		
3,100.0	3,097.8	3,115.2	3,114.5	4.7	3.8	-104.28	481.0	-188.1	526.3	518.2	8.09	65.068		
3,200.0	3,197.2	3,212.5	3,211.6	4.8	3.8	-105.54	477.5	-188.2	525.8	517.7	8.15	64.540		
3,254.2	3,251.1	3,265.7	3,264.8	4.8	3.9	-106.21	475.7	-188.1	525.7	517.5	8.18	64.263 CC		
3,300.0	3,296.7	3,311.8	3,310.9	4.8	3.9	-106.79	474.2	-188.0	525.7	517.5	8.21	64.034 ES		
3,400.0	3,396.1	3,410.2	3,409.3	4.9	3.9	-108.02	470.9	-187.8	525.9	517.6	8.28	63.547		
3,500.0	3,495.6	3,509.1	3,508.1	5.0	4.0	-109.25	467.9	-187.7	526.6	518.2	8.35	63.099		
3,600.0	3,595.0	3,608.7	3,607.7	5.1	4.1	-110.48	464.8	-187.5	527.4	519.0	8.42	62.649		
3,700.0	3,694.5	3,709.2	3,708.1	5.1	4.1	-111.73	461.5	-187.4	528.4	519.9	8.49	62.204		
3,800.0	3,793.9	3,810.9	3,809.8	5.2	4.2	-112.97	457.9	-186.9	529.2	520.6	8.58	61.706		
3,900.0	3,893.4	3,911.8	3,910.6	5.3	4.3	-114.19	454.2	-186.1	530.0	521.3	8.66	61.179		
4,000.0	3,992.8	4,012.9	4,011.6	5.4	4.4	-115.38	450.4	-185.0	530.7	522.0	8.75	60.619		
4,100.0	4,092.3	4,112.3	4,110.9	5.4	4.4	-116.52	446.7	-183.6	531.5	522.7	8.85	60.050		
4,200.0	4,191.7	4,214.5	4,213.0	5.5	4.5	-117.70	442.7	-182.0	532.3	523.3	8.95	59.438		
4,300.0	4,291.2	4,313.3	4,311.7	5.6	4.6	-118.82	438.6	-180.2	532.9	523.9	9.06	58.822		
4,400.0	4,390.6	4,409.3	4,407.7	5.7	4.7	-119.84	435.4	-178.3	534.3	525.1	9.17	58.257		
4,500.0	4,490.0	4,508.0	4,506.3	5.8	4.8	-120.82	432.7	-176.2	536.1	526.8	9.29	57.709		
4,600.0	4,589.5	4,605.4	4,603.7	5.9	4.9	-121.77	430.5	-174.2	538.5	529.1	9.41	57.200		
4,700.0	4,688.9	4,704.4	4,702.5	6.0	5.0	-122.70	428.4	-172.1	541.1	531.6	9.55	56.692		
4,800.0	4,788.4	4,805.8	4,803.9	6.1	5.1	-123.62	426.3	-169.7	543.8	534.1	9.68	56.153		

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #6H - OWB - ACTUAL													Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8667-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	4,887.8	4,905.5	4,903.6	6.2	5.2	-124.51	424.2	-167.3	546.5	536.7	9.83	55.615		
5,000.0	4,987.3	5,005.8	5,003.8	6.3	5.3	-125.40	422.1	-164.8	549.3	539.3	9.97	55.073		
5,100.0	5,086.7	5,104.2	5,102.2	6.4	5.4	-126.27	420.2	-162.4	552.3	542.2	10.13	54.548		
5,200.0	5,186.2	5,204.2	5,202.2	6.5	5.5	-127.13	418.2	-160.0	555.5	545.2	10.28	54.021		
5,300.0	5,285.6	5,306.0	5,303.8	6.6	5.6	-128.04	415.7	-157.7	558.5	548.1	10.45	53.470		
5,400.0	5,385.1	5,404.7	5,402.5	6.7	5.7	-128.97	412.8	-155.5	561.6	551.0	10.61	52.935		
5,500.0	5,484.5	5,503.5	5,501.3	6.8	5.8	-129.89	409.9	-153.6	564.9	554.2	10.78	52.431		
5,600.0	5,584.0	5,603.7	5,601.4	6.9	5.9	-130.82	407.0	-151.7	568.5	557.5	10.95	51.933		
5,700.0	5,683.4	5,701.9	5,699.6	7.0	6.0	-131.72	404.2	-149.9	572.3	561.1	11.12	51.463		
5,800.0	5,782.9	5,801.6	5,799.1	7.1	6.1	-132.62	401.3	-148.1	576.2	564.9	11.30	51.002		
5,900.0	5,882.3	5,902.2	5,899.7	7.2	6.2	-133.53	398.3	-146.3	580.2	568.7	11.48	50.538		
6,000.0	5,981.7	6,000.4	5,997.8	7.3	6.3	-134.42	395.3	-144.7	584.4	572.8	11.66	50.116		
6,100.0	6,081.2	6,098.2	6,095.6	7.4	6.4	-135.30	392.3	-143.2	588.9	577.1	11.84	49.722		
6,200.0	6,180.6	6,196.9	6,194.2	7.5	6.5	-136.22	389.0	-142.2	593.8	581.8	12.02	49.385		
6,300.0	6,280.1	6,295.6	6,292.8	7.6	6.6	-137.16	385.5	-141.5	599.0	586.8	12.20	49.091		
6,400.0	6,379.5	6,396.0	6,393.2	7.7	6.7	-138.11	381.7	-140.8	604.4	592.0	12.38	48.807		
6,500.0	6,479.0	6,494.2	6,491.3	7.9	6.8	-139.05	377.8	-140.2	609.8	597.3	12.56	48.548		
6,600.0	6,578.4	6,593.5	6,590.5	8.0	6.9	-140.01	373.7	-139.8	615.5	602.7	12.74	48.312		
6,700.0	6,677.9	6,691.0	6,688.0	8.1	7.0	-140.93	369.7	-139.5	621.4	608.5	12.92	48.101		
6,800.0	6,777.3	6,788.5	6,785.4	8.2	7.1	-141.79	366.3	-139.3	628.0	614.9	13.10	47.947		
6,900.0	6,876.8	6,887.5	6,884.3	8.3	7.2	-142.63	363.1	-139.2	634.8	621.5	13.28	47.811		
7,000.0	6,976.2	6,998.6	6,995.4	8.4	7.4	-143.52	359.4	-138.2	641.0	627.5	13.47	47.584		
7,100.0	7,075.7	7,096.6	7,093.4	8.5	7.5	-144.24	356.3	-136.1	646.3	632.6	13.67	47.261		
7,200.0	7,175.1	7,194.3	7,191.0	8.7	7.6	-144.99	352.9	-134.5	652.0	638.2	13.87	46.997		
7,300.0	7,274.6	7,293.1	7,289.7	8.8	7.7	-145.72	349.6	-133.1	658.1	644.1	14.07	46.763		
7,400.0	7,374.0	7,392.0	7,388.5	8.9	7.8	-146.45	346.3	-131.8	664.3	650.1	14.27	46.542		
7,500.0	7,473.4	7,491.9	7,488.3	9.0	7.9	-147.17	342.9	-130.4	670.7	656.2	14.48	46.332		
7,600.0	7,572.9	7,592.1	7,588.5	9.1	8.1	-147.85	339.9	-128.9	677.1	662.4	14.68	46.125		
7,700.0	7,672.3	7,693.0	7,689.3	9.2	8.2	-148.52	336.8	-127.1	683.4	668.5	14.89	45.901		
7,800.0	7,771.8	7,793.2	7,789.5	9.4	8.3	-149.16	333.8	-125.2	689.5	674.4	15.10	45.672		
7,900.0	7,871.2	7,892.8	7,889.0	9.5	8.4	-149.77	331.0	-123.1	695.8	680.5	15.31	45.445		
8,000.0	7,970.7	7,993.8	7,990.0	9.6	8.5	-150.36	328.3	-120.9	702.0	686.5	15.53	45.216		
8,100.0	8,070.1	8,092.9	8,088.9	9.7	8.7	-150.93	325.6	-118.6	708.2	692.5	15.74	44.991		
8,200.0	8,169.6	8,195.2	8,191.2	9.8	8.8	-151.51	322.8	-116.2	714.3	698.3	15.96	44.759		
8,300.0	8,269.0	8,296.0	8,292.0	10.0	8.9	-152.09	319.7	-113.6	720.3	704.1	16.18	44.530		
8,400.0	8,368.5	8,392.3	8,388.2	10.1	9.0	-152.65	316.6	-111.3	726.5	710.1	16.39	44.329		
8,500.0	8,467.9	8,489.2	8,484.9	10.2	9.1	-153.22	313.5	-109.4	733.1	716.5	16.60	44.172		
8,600.0	8,567.4	8,584.6	8,580.3	10.3	9.2	-153.77	310.4	-107.9	740.2	723.4	16.80	44.049		
8,700.0	8,666.8	8,691.3	8,686.9	10.5	9.3	-154.42	306.6	-106.9	748.0	731.0	16.96	44.104		
8,800.0	8,766.3	8,789.5	8,784.8	10.6	11.6	-178.08	26.7	19.0	728.5	706.3	22.21	32.808		
8,900.0	8,865.7	8,889.0	8,884.3	10.7	11.8	174.77	-47.8	56.2	689.3	667.7	21.62	31.880		
9,000.0	8,965.2	8,987.3	8,982.0	10.8	11.9	170.60	-90.2	76.7	659.2	638.6	20.52	32.129		
9,100.0	9,064.6	9,086.7	9,081.4	11.0	11.9	168.69	-109.7	85.9	642.2	622.7	19.54	32.862		
9,162.4	9,126.7	9,148.8	9,143.5	11.0	11.9	168.01	-116.5	89.1	639.2	619.9	19.31	33.112		
9,200.0	9,164.0	9,186.1	9,180.8	11.1	11.9	167.67	-120.0	90.7	640.3	621.0	19.35	33.090		
9,300.0	9,263.5	9,285.6	9,280.3	11.2	11.9	166.92	-127.5	94.1	653.7	633.5	20.17	32.409		
9,400.0	9,362.9	9,385.0	9,379.7	11.3	11.9	166.36	-133.3	96.8	681.6	659.8	21.77	31.315		
9,500.0	9,462.4	9,484.5	9,479.2	11.5	11.9	165.92	-137.8	98.8	722.2	698.5	23.71	30.461		
9,600.0	9,561.8	9,583.9	9,578.6	11.6	11.9	165.56	-141.4	100.5	773.7	748.1	25.68	30.132 SF		
9,700.0	9,661.3	9,683.4	9,678.1	11.7	11.9	165.27	-144.4	101.8	834.1	806.6	27.50	30.333		
9,800.0	9,760.7	9,782.8	9,777.5	11.8	11.9	163.43	-163.2	110.3	901.8	872.6	29.26	30.824		

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #6H - OWB - ACTUAL												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8667-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
9,900.0	9,860.2	9,488.0	9,193.1	12.0	11.9	163.43	-163.2	110.3	974.7	944.1	30.64	31.813	
10,000.0	9,959.6	9,488.0	9,193.1	12.1	11.9	163.43	-163.2	110.3	1,052.1	1,020.3	31.84	33.047	
10,100.0	10,059.1	9,488.0	9,193.1	12.2	11.9	163.43	-163.2	110.3	1,133.0	1,100.1	32.88	34.458	
10,200.0	10,158.5	9,488.0	9,193.1	12.3	11.9	163.43	-163.2	110.3	1,216.8	1,183.0	33.80	36.000	
10,300.0	10,258.0	9,488.0	9,193.1	12.5	11.9	163.43	-163.2	110.3	1,302.8	1,268.2	34.62	37.635	
10,400.0	10,357.4	9,488.0	9,193.1	12.6	11.9	163.43	-163.2	110.3	1,390.7	1,355.4	35.36	39.336	
10,500.0	10,456.9	9,488.0	9,193.1	12.7	11.9	163.43	-163.2	110.3	1,480.2	1,444.1	36.03	41.083	
10,600.0	10,556.3	9,488.0	9,193.1	12.8	11.9	163.43	-163.2	110.3	1,570.9	1,534.2	36.65	42.860	
10,700.0	10,655.7	9,488.0	9,193.1	13.0	11.9	163.43	-163.2	110.3	1,662.7	1,625.4	37.23	44.655	
10,800.0	10,755.2	9,488.0	9,193.1	13.1	11.9	163.43	-163.2	110.3	1,755.4	1,717.6	37.78	46.460	
10,900.0	10,854.6	9,488.0	9,193.1	13.2	11.9	163.43	-163.2	110.3	1,848.8	1,810.5	38.30	48.266	
11,000.0	10,954.1	9,488.0	9,193.1	13.4	11.9	163.43	-163.2	110.3	1,942.9	1,904.1	38.80	50.068	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #7H - OWB - ACTUAL												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8608-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	2.4	2.4	3.0	3.0	64.96	507.7	1,087.0	1,199.7				
100.0	100.0	131.9	131.9	3.0	3.0	64.97	506.7	1,085.4	1,198.2	1,192.2	6.00	199.717	
200.0	200.0	232.0	232.0	3.0	3.0	64.98	505.6	1,083.2	1,195.7	1,189.7	6.01	199.011	
300.0	300.0	333.5	333.4	3.0	3.0	64.98	504.4	1,080.8	1,193.1	1,187.1	6.03	198.021	
400.0	400.0	432.7	432.6	3.0	3.0	64.98	503.4	1,078.4	1,190.5	1,184.5	6.05	196.782	
500.0	500.0	532.0	531.9	3.1	3.1	64.97	502.4	1,076.1	1,188.0	1,181.9	6.08	195.315	
600.0	600.0	631.4	631.2	3.1	3.1	64.98	501.2	1,073.8	1,185.4	1,179.2	6.12	193.614	
700.0	700.0	733.8	733.6	3.1	3.1	64.99	499.8	1,071.4	1,182.7	1,176.5	6.17	191.674	
800.0	800.0	833.9	833.7	3.2	3.2	65.01	498.3	1,069.1	1,179.9	1,173.7	6.23	189.548	
900.0	900.0	931.9	931.7	3.2	3.2	65.02	497.0	1,066.9	1,177.4	1,171.1	6.29	187.301	
1,000.0	1,000.0	1,024.6	1,024.3	3.2	3.3	65.03	496.0	1,065.2	1,175.2	1,168.9	6.35	185.021	
1,100.0	1,100.0	1,125.0	1,124.7	3.3	3.3	65.04	495.1	1,063.4	1,173.2	1,166.8	6.43	182.551	
1,200.0	1,200.0	1,225.0	1,224.6	3.4	3.4	65.05	494.1	1,061.8	1,171.3	1,164.8	6.51	179.980	
1,300.0	1,300.0	1,300.0	1,299.6	3.4	3.4	65.06	493.4	1,060.9	1,170.0	1,163.5	6.58	177.840	
1,304.5	1,304.5	1,306.7	1,306.3	3.4	3.4	65.06	493.4	1,060.9	1,170.0	1,163.4	6.58	177.776	
1,400.0	1,400.0	1,388.0	1,387.7	3.5	3.4	65.07	493.4	1,061.7	1,170.8	1,164.2	6.60	177.470	
1,500.0	1,500.0	1,489.7	1,489.4	3.5	3.4	65.09	493.5	1,062.9	1,172.0	1,165.3	6.61	177.310	
1,600.0	1,600.0	1,588.9	1,588.6	3.6	3.4	65.10	493.9	1,063.9	1,173.1	1,166.4	6.63	177.013	
1,700.0	1,700.0	1,685.9	1,685.5	3.7	3.4	65.10	494.3	1,065.1	1,174.4	1,167.7	6.65	176.579	
1,800.0	1,800.0	1,783.0	1,782.6	3.8	3.3	65.10	495.0	1,066.4	1,175.9	1,169.2	6.68	176.006	
1,900.0	1,900.0	1,881.3	1,880.9	3.9	3.3	65.10	495.8	1,067.9	1,177.6	1,170.9	6.72	175.290	
2,000.0	2,000.0	1,977.0	1,976.6	3.9	3.4	65.08	496.9	1,069.4	1,179.5	1,172.7	6.76	174.440	
2,100.0	2,100.0	2,071.1	2,070.7	4.0	3.4	65.05	498.4	1,071.2	1,181.9	1,175.1	6.81	173.519	
2,200.0	2,200.0	2,169.4	2,168.9	4.1	3.4	65.03	499.9	1,073.5	1,184.6	1,177.7	6.87	172.487	
2,300.0	2,300.0	2,266.0	2,265.4	4.2	3.4	65.00	501.5	1,075.7	1,187.5	1,180.5	6.93	171.352	
2,400.0	2,400.0	2,376.1	2,375.5	4.3	3.4	64.98	503.1	1,078.1	1,190.0	1,183.0	7.00	169.945	
2,500.0	2,500.0	2,474.2	2,473.6	4.4	3.4	64.97	504.3	1,080.0	1,192.3	1,185.2	7.08	168.464	
2,600.0	2,600.0	2,575.7	2,575.1	4.5	3.5	-12.78	505.8	1,082.1	1,193.0	1,185.9	7.17	166.403	
2,700.0	2,699.8	2,688.1	2,687.5	4.5	3.5	-12.87	506.7	1,083.3	1,189.2	1,181.9	7.28	163.276	
2,801.5	2,800.9	2,784.2	2,783.6	4.6	3.6	-13.01	507.6	1,084.3	1,182.0	1,174.6	7.40	159.749	
2,900.0	2,898.9	2,875.9	2,875.2	4.6	3.6	-13.13	508.5	1,085.9	1,173.8	1,166.3	7.52	156.170	
3,000.0	2,998.3	2,997.8	2,997.1	4.7	3.7	-13.28	509.5	1,087.7	1,165.3	1,157.7	7.66	152.189	
3,100.0	3,097.8	3,109.0	3,108.3	4.7	3.7	-13.43	509.6	1,086.9	1,154.5	1,146.7	7.77	148.490	
3,200.0	3,197.2	3,206.5	3,205.8	4.8	3.7	-13.58	509.7	1,086.1	1,143.6	1,135.7	7.89	144.918	
3,300.0	3,296.7	3,305.2	3,304.5	4.8	3.8	-13.72	510.0	1,085.4	1,132.8	1,124.8	8.01	141.356	
3,400.0	3,396.1	3,402.5	3,401.8	4.9	3.8	-13.88	510.2	1,084.7	1,122.2	1,114.0	8.14	137.833	
3,500.0	3,495.6	3,500.0	3,499.3	5.0	3.9	-14.04	510.6	1,084.1	1,111.6	1,103.3	8.27	134.353	
3,600.0	3,595.0	3,599.5	3,598.7	5.1	3.9	-14.21	511.2	1,083.6	1,101.2	1,092.8	8.41	130.934	
3,700.0	3,694.5	3,695.8	3,695.0	5.1	4.0	-14.38	511.9	1,083.3	1,091.1	1,082.5	8.55	127.624	
3,800.0	3,793.9	3,791.8	3,791.1	5.2	4.0	-14.55	512.6	1,083.2	1,081.1	1,072.4	8.69	124.398	
3,900.0	3,893.4	3,887.1	3,886.4	5.3	4.1	-14.72	513.5	1,083.3	1,071.5	1,062.7	8.84	121.268	
4,000.0	3,992.8	3,983.9	3,983.1	5.4	4.2	-14.89	514.4	1,083.9	1,062.3	1,053.3	8.99	118.211	
4,100.0	4,092.3	4,080.2	4,079.4	5.4	4.2	-15.05	515.2	1,084.9	1,053.4	1,044.3	9.14	115.236	
4,200.0	4,191.7	4,176.4	4,175.6	5.5	4.3	-15.20	516.0	1,086.3	1,044.9	1,035.6	9.30	112.341	
4,300.0	4,291.2	4,276.7	4,275.9	5.6	4.3	-15.33	516.4	1,087.9	1,036.4	1,026.9	9.47	109.469	
4,400.0	4,390.6	4,387.8	4,387.0	5.7	4.4	-15.45	516.3	1,089.7	1,027.7	1,018.0	9.64	106.593	
4,500.0	4,490.0	4,499.6	4,498.9	5.8	4.4	-15.58	515.4	1,089.6	1,017.1	1,007.3	9.79	103.843	
4,600.0	4,589.5	4,598.8	4,598.0	5.9	4.4	-15.71	514.5	1,089.2	1,006.2	996.3	9.94	101.240	
4,700.0	4,688.9	4,699.1	4,698.3	6.0	4.5	-15.84	513.8	1,089.0	995.5	985.4	10.09	98.680	
4,800.0	4,788.4	4,797.2	4,796.5	6.1	4.5	-15.98	513.0	1,088.7	984.7	974.5	10.24	96.176	
4,900.0	4,887.8	4,896.0	4,895.2	6.2	4.5	-16.12	512.3	1,088.4	974.0	963.6	10.39	93.720	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #7H - OWB - ACTUAL												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8608-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	
5,000.0	4,987.3	4,995.6	4,994.8	6.3	4.6	-16.25	511.5	1,088.1	963.3	952.8	10.55	91.303	
5,100.0	5,086.7	5,094.7	5,093.9	6.4	4.6	-16.40	510.8	1,087.8	952.7	942.0	10.71	88.940	
5,200.0	5,186.2	5,195.5	5,194.7	6.5	4.7	-16.55	509.9	1,087.5	941.9	931.1	10.88	86.609	
5,300.0	5,285.6	5,296.9	5,296.1	6.6	4.7	-16.69	508.9	1,087.1	931.0	920.0	11.04	84.307	
5,400.0	5,385.1	5,397.4	5,396.6	6.7	4.8	-16.83	507.7	1,086.7	920.0	908.8	11.21	82.056	
5,500.0	5,484.5	5,498.3	5,497.5	6.8	4.8	-16.98	506.4	1,085.9	908.7	897.3	11.39	79.813	
5,600.0	5,584.0	5,600.8	5,599.9	6.9	4.9	-17.14	505.1	1,084.9	897.2	885.6	11.56	77.586	
5,700.0	5,683.4	5,699.4	5,698.5	7.0	5.0	-17.30	503.9	1,083.8	885.5	873.8	11.74	75.424	
5,800.0	5,782.9	5,799.7	5,798.8	7.1	5.0	-17.47	502.6	1,082.7	874.0	862.0	11.92	73.299	
5,900.0	5,882.3	5,896.9	5,896.0	7.2	5.1	-17.65	501.6	1,081.6	862.4	850.3	12.11	71.246	
6,000.0	5,981.7	5,996.9	5,996.0	7.3	5.2	-17.84	500.6	1,080.6	851.0	838.7	12.29	69.226	
6,100.0	6,081.2	6,096.6	6,095.6	7.4	5.2	-18.04	499.5	1,079.4	839.5	827.0	12.48	67.246	
6,200.0	6,180.6	6,195.9	6,195.0	7.5	5.3	-18.25	498.5	1,078.3	828.0	815.3	12.68	65.312	
6,300.0	6,280.1	6,297.5	6,296.6	7.6	5.4	-18.47	497.5	1,076.9	816.4	803.5	12.88	63.396	
6,400.0	6,379.5	6,398.9	6,397.9	7.7	5.5	-18.72	496.6	1,075.2	804.5	791.5	13.08	61.512	
6,500.0	6,479.0	6,497.3	6,496.3	7.9	5.6	-18.97	495.7	1,073.5	792.6	779.3	13.28	59.687	
6,600.0	6,578.4	6,597.2	6,596.2	8.0	5.6	-19.24	494.9	1,071.7	780.7	767.2	13.48	57.896	
6,700.0	6,677.9	6,696.1	6,695.1	8.1	5.7	-19.52	494.1	1,069.7	768.7	755.0	13.69	56.153	
6,800.0	6,777.3	6,798.5	6,797.4	8.2	5.8	-19.86	493.6	1,067.3	756.6	742.7	13.90	54.420	
6,900.0	6,876.8	6,897.8	6,896.7	8.3	5.9	-20.25	493.6	1,064.5	744.3	730.2	14.11	52.752	
7,000.0	6,976.2	6,982.1	6,981.0	8.4	6.0	-20.58	493.9	1,063.0	733.1	718.9	14.28	51.324	
7,100.0	7,075.7	7,079.8	7,078.7	8.5	6.0	-20.92	494.3	1,062.4	723.0	708.6	14.47	49.952	
7,200.0	7,175.1	7,179.3	7,178.1	8.7	6.1	-21.28	494.8	1,061.8	713.0	698.3	14.66	48.623	
7,300.0	7,274.6	7,282.2	7,281.1	8.8	6.2	-21.66	495.2	1,061.1	702.9	688.0	14.86	47.290	
7,400.0	7,374.0	7,386.6	7,385.4	8.9	6.3	-22.03	495.0	1,060.0	692.1	677.0	15.08	45.884	
7,500.0	7,473.4	7,486.7	7,485.6	9.0	6.4	-22.39	494.4	1,058.6	680.9	665.6	15.30	44.498	
7,600.0	7,572.9	7,576.5	7,575.4	9.1	6.4	-22.65	493.4	1,058.2	670.3	654.8	15.49	43.285	
7,700.0	7,672.3	7,676.3	7,675.1	9.2	6.5	-22.82	491.7	1,059.4	660.5	644.9	15.67	42.163	
7,800.0	7,771.8	7,778.5	7,777.3	9.4	6.5	-22.96	489.4	1,060.5	650.4	634.6	15.86	41.022	
7,900.0	7,871.2	7,877.3	7,876.1	9.5	6.6	-23.07	486.8	1,061.7	640.3	624.3	16.04	39.919	
8,000.0	7,970.7	7,978.6	7,977.3	9.6	6.7	-23.17	483.9	1,063.1	630.1	613.9	16.23	38.822	
8,100.0	8,070.1	8,075.0	8,073.7	9.7	6.7	-23.28	481.3	1,064.1	619.7	603.3	16.41	37.757	
8,200.0	8,169.6	8,171.5	8,170.2	9.8	6.8	-23.66	481.4	1,064.2	610.2	593.6	16.58	36.807	
8,300.0	8,269.0	8,275.3	8,273.9	10.0	6.8	-24.10	481.5	1,064.1	600.5	583.7	16.78	35.788	
8,400.0	8,368.5	8,378.9	8,377.5	10.1	6.9	-24.49	480.6	1,063.5	590.0	573.0	17.01	34.690	
8,500.0	8,467.9	8,483.3	8,482.0	10.2	7.0	-24.90	479.2	1,062.5	578.9	561.6	17.25	33.567	
8,600.0	8,567.4	8,591.1	8,589.7	10.3	7.1	-25.37	477.2	1,060.1	566.5	549.0	17.48	32.399	
8,700.0	8,666.8	8,715.3	8,713.7	10.5	7.3	-25.88	472.6	1,055.3	551.9	534.1	17.81	30.990	
8,800.0	8,766.3	9,272.2	9,163.9	10.6	10.7	-4.82	223.2	921.8	498.5	469.4	29.11	17.126	
8,900.0	8,865.7	9,415.4	9,205.2	10.7	11.2	27.01	96.2	872.7	411.6	381.5	30.13	13.663	
9,000.0	8,965.2	9,421.4	9,205.8	10.8	11.2	28.70	90.6	870.7	328.1	299.4	28.73	11.423	
9,100.0	9,064.6	9,425.1	9,206.1	11.0	11.2	29.77	87.0	869.5	256.7	231.0	25.75	9.970	
9,200.0	9,164.0	9,427.7	9,206.3	11.1	11.2	30.50	84.6	868.7	210.0	188.8	21.22	9.894	
9,259.1	9,222.8	9,428.8	9,206.4	11.1	11.3	30.83	83.5	868.4	201.5	181.4	20.09	10.032 CC, ES	
9,300.0	9,263.5	9,429.5	9,206.5	11.2	11.3	31.03	82.9	868.2	205.6	184.5	21.07	9.757	
9,400.0	9,362.9	9,431.0	9,206.6	11.3	11.3	31.43	81.5	867.7	245.9	219.6	26.28	9.354 SF	
9,500.0	9,462.4	9,432.1	9,206.7	11.5	11.3	31.74	80.5	867.4	314.0	283.8	30.23	10.389	
9,600.0	9,561.8	9,433.0	9,206.7	11.6	11.3	32.00	79.6	867.1	396.0	363.5	32.46	12.200	
9,700.0	9,661.3	9,433.7	9,206.8	11.7	11.3	32.21	78.9	866.9	484.7	450.9	33.79	14.346	
9,800.0	9,760.7	9,434.3	9,206.8	11.8	11.3	32.39	78.3	866.7	577.2	542.5	34.68	16.641	
9,900.0	9,860.2	9,434.9	9,206.9	12.0	11.3	32.54	77.8	866.5	671.8	636.4	35.36	19.000	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #7H - OWB - ACTUAL												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8608-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
10,000.0	9,959.6	9,435.3	9,206.9	12.1	11.3	32.66	77.4	866.4	767.8	731.8	35.90	21.384	
10,100.0	10,059.1	9,435.7	9,206.9	12.2	11.3	32.78	77.0	866.3	864.6	828.3	36.38	23.767	
10,200.0	10,158.5	9,436.1	9,206.9	12.3	11.3	32.87	76.7	866.2	962.2	925.4	36.81	26.137	
10,300.0	10,258.0	9,436.4	9,207.0	12.5	11.3	32.96	76.4	866.1	1,060.2	1,022.9	37.22	28.486	
10,400.0	10,357.4	9,436.6	9,207.0	12.6	11.3	33.04	76.1	866.0	1,158.5	1,120.9	37.60	30.809	
10,500.0	10,456.9	9,436.9	9,207.0	12.7	11.3	33.11	75.9	865.9	1,257.1	1,219.1	37.98	33.101	
10,600.0	10,556.3	9,437.1	9,207.0	12.8	11.3	33.17	75.7	865.8	1,355.9	1,317.5	38.34	35.361	
10,700.0	10,655.7	9,437.3	9,207.0	13.0	11.3	33.23	75.5	865.8	1,454.8	1,416.1	38.71	37.587	
10,800.0	10,755.2	9,437.5	9,207.0	13.1	11.3	33.28	75.3	865.7	1,553.9	1,514.9	39.06	39.779	
10,900.0	10,854.6	9,437.6	9,207.0	13.2	11.3	33.32	75.2	865.7	1,653.1	1,613.7	39.42	41.935	
11,000.0	10,954.1	9,437.8	9,207.0	13.4	11.3	33.37	75.0	865.6	1,752.4	1,712.7	39.78	44.055	
11,100.0	11,053.5	9,437.9	9,207.0	13.5	11.3	33.41	74.9	865.6	1,851.8	1,811.7	40.13	46.140	
11,200.0	11,153.0	9,438.1	9,207.1	13.6	11.3	33.44	74.8	865.5	1,951.2	1,910.7	40.49	48.188	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #8H - OWB - ACTUAL												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8684-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	2.1	2.1	3.0	3.0	65.92	508.1	1,137.0	1,245.4				
100.0	100.0	100.0	100.0	3.0	3.0	65.92	508.2	1,137.1	1,245.5	1,239.5	6.00	207.568	
200.0	200.0	202.4	202.4	3.0	3.0	65.90	508.6	1,137.1	1,245.6	1,239.6	6.00	207.439	
300.0	300.0	306.7	306.7	3.0	3.0	65.89	508.8	1,136.9	1,245.5	1,239.5	6.01	207.164	
400.0	400.0	407.6	407.6	3.0	3.0	65.89	508.5	1,136.5	1,245.1	1,239.1	6.02	206.727	
500.0	500.0	509.5	509.5	3.1	3.0	65.91	508.1	1,136.2	1,244.6	1,238.6	6.04	206.036	
600.0	600.0	611.1	611.1	3.1	3.0	65.92	507.7	1,135.7	1,244.0	1,238.0	6.07	205.077	
700.0	700.0	713.1	713.1	3.1	3.1	65.94	506.9	1,135.3	1,243.3	1,237.2	6.10	203.896	
800.0	800.0	814.9	814.8	3.2	3.1	65.96	506.0	1,134.5	1,242.3	1,236.2	6.14	202.434	
900.0	900.0	919.3	919.3	3.2	3.1	65.99	504.9	1,133.7	1,241.2	1,235.0	6.18	200.735	
1,000.0	1,000.0	1,017.0	1,017.0	3.2	3.1	66.02	503.9	1,132.8	1,239.9	1,233.7	6.24	198.858	
1,100.0	1,100.0	1,114.3	1,114.3	3.3	3.2	66.04	503.1	1,132.0	1,238.8	1,232.5	6.29	196.850	
1,200.0	1,200.0	1,214.4	1,214.4	3.4	3.2	66.06	502.3	1,131.3	1,237.9	1,231.5	6.36	194.657	
1,300.0	1,300.0	1,312.3	1,312.2	3.4	3.3	66.07	501.7	1,130.5	1,236.9	1,230.4	6.43	192.305	
1,400.0	1,400.0	1,412.9	1,412.8	3.5	3.3	66.07	501.4	1,129.7	1,236.0	1,229.5	6.51	189.792	
1,500.0	1,500.0	1,513.4	1,513.3	3.5	3.4	66.06	501.2	1,128.8	1,235.1	1,228.5	6.60	187.168	
1,600.0	1,600.0	1,612.4	1,612.4	3.6	3.4	66.04	501.2	1,127.9	1,234.3	1,227.6	6.69	184.555	
1,700.0	1,700.0	1,710.1	1,710.0	3.7	3.5	66.02	501.3	1,127.0	1,233.5	1,226.7	6.78	181.971	
1,800.0	1,800.0	1,809.5	1,809.4	3.8	3.5	66.00	501.4	1,126.2	1,232.8	1,226.0	6.87	179.376	
1,900.0	1,900.0	1,905.7	1,905.6	3.9	3.6	65.97	501.8	1,125.6	1,232.4	1,225.4	6.96	177.077	
2,000.0	2,000.0	2,003.1	2,003.0	3.9	3.6	65.93	502.5	1,125.1	1,232.2	1,225.2	7.03	175.278	
2,003.8	2,003.8	2,006.0	2,006.0	3.9	3.6	65.93	502.6	1,125.1	1,232.2	1,225.2	7.03	175.228	
2,100.0	2,100.0	2,099.3	2,099.2	4.0	3.6	65.89	503.5	1,125.0	1,232.5	1,225.5	7.08	173.992	
2,200.0	2,200.0	2,193.4	2,193.3	4.1	3.7	65.84	504.7	1,125.2	1,233.2	1,226.0	7.13	172.942	
2,300.0	2,300.0	2,283.8	2,283.7	4.2	3.7	65.79	506.1	1,125.6	1,234.3	1,227.1	7.18	171.994	
2,400.0	2,400.0	2,376.9	2,376.7	4.3	3.7	65.72	508.0	1,126.4	1,235.9	1,228.7	7.22	171.142	
2,500.0	2,500.0	2,476.7	2,476.5	4.4	3.7	65.65	510.3	1,127.7	1,238.1	1,230.8	7.27	170.299	
2,600.0	2,600.0	2,587.5	2,587.3	4.5	3.7	-12.10	511.3	1,129.0	1,237.8	1,230.4	7.33	168.875	
2,700.0	2,699.8	2,678.8	2,678.6	4.5	3.7	-12.15	511.7	1,130.4	1,234.2	1,226.8	7.40	166.721	
2,801.5	2,800.9	2,776.0	2,775.8	4.6	3.7	-12.25	512.4	1,132.2	1,227.6	1,220.1	7.48	164.044	
2,900.0	2,898.9	2,866.4	2,866.2	4.6	3.7	-12.33	513.2	1,134.5	1,220.1	1,212.5	7.57	161.214	
3,000.0	2,998.3	2,957.8	2,957.5	4.7	3.7	-12.41	513.9	1,137.4	1,213.0	1,205.3	7.66	158.339	
3,100.0	3,097.8	3,099.8	3,099.4	4.7	3.7	-12.49	514.0	1,141.3	1,205.6	1,197.8	7.78	155.028	
3,200.0	3,197.2	3,200.0	3,199.6	4.8	3.8	-12.58	513.6	1,141.2	1,195.0	1,187.1	7.91	151.074	
3,300.0	3,296.7	3,294.0	3,293.6	4.8	3.8	-12.68	513.6	1,141.5	1,185.1	1,177.1	8.02	147.726	
3,400.0	3,396.1	3,396.4	3,396.1	4.9	3.8	-12.80	513.8	1,141.8	1,175.2	1,167.0	8.14	144.359	
3,500.0	3,495.6	3,495.7	3,495.3	5.0	3.9	-12.91	514.0	1,142.0	1,165.2	1,156.9	8.26	140.988	
3,600.0	3,595.0	3,597.1	3,596.7	5.1	3.9	-13.04	514.1	1,142.2	1,155.2	1,146.8	8.39	137.606	
3,700.0	3,694.5	3,690.5	3,690.1	5.1	4.0	-13.17	514.6	1,142.3	1,145.2	1,136.7	8.53	134.295	
3,800.0	3,793.9	3,784.1	3,783.7	5.2	4.0	-13.32	515.6	1,142.6	1,135.8	1,127.2	8.66	131.112	
3,900.0	3,893.4	3,877.6	3,877.2	5.3	4.1	-13.47	516.8	1,143.5	1,127.0	1,118.2	8.80	128.036	
4,000.0	3,992.8	3,974.5	3,974.1	5.4	4.1	-13.62	518.1	1,144.9	1,118.6	1,109.7	8.95	125.027	
4,100.0	4,092.3	4,073.4	4,073.0	5.4	4.2	-13.76	519.2	1,146.4	1,110.2	1,101.1	9.10	122.030	
4,200.0	4,191.7	4,169.9	4,169.5	5.5	4.2	-13.90	520.2	1,148.2	1,102.2	1,093.0	9.25	119.132	
4,300.0	4,291.2	4,273.6	4,273.1	5.6	4.3	-13.99	520.4	1,150.5	1,094.0	1,084.6	9.41	116.228	
4,400.0	4,390.6	4,377.9	4,377.4	5.7	4.3	-14.05	519.8	1,152.7	1,085.6	1,076.0	9.58	113.367	
4,500.0	4,490.0	4,475.5	4,475.0	5.8	4.4	-14.10	519.2	1,154.8	1,077.0	1,067.2	9.74	110.606	
4,600.0	4,589.5	4,576.7	4,576.2	5.9	4.4	-14.16	518.5	1,156.9	1,068.3	1,058.4	9.90	107.874	
4,700.0	4,688.9	4,680.1	4,679.5	6.0	4.5	-14.24	518.0	1,158.5	1,059.3	1,049.2	10.07	105.146	
4,800.0	4,788.4	4,782.9	4,782.4	6.1	4.5	-14.35	517.9	1,159.7	1,050.1	1,039.8	10.25	102.431	
4,900.0	4,887.8	4,882.1	4,881.5	6.2	4.6	-14.48	518.1	1,160.5	1,040.7	1,030.3	10.43	99.771	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #8H - OWB - ACTUAL												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8684-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
5,000.0	4,987.3	4,979.1	4,978.5	6.3	4.7	-14.62	518.3	1,161.4	1,031.5	1,020.9	10.61	97.188	
5,100.0	5,086.7	5,079.3	5,078.7	6.4	4.8	-14.75	518.6	1,162.5	1,022.4	1,011.6	10.80	94.659	
5,200.0	5,186.2	5,178.1	5,177.5	6.5	4.8	-14.91	519.1	1,163.2	1,013.2	1,002.2	10.99	92.179	
5,300.0	5,285.6	5,278.6	5,278.0	6.6	4.9	-15.08	519.8	1,164.1	1,004.1	992.9	11.19	89.762	
5,400.0	5,385.1	5,377.4	5,376.8	6.7	5.0	-15.26	520.6	1,164.7	994.8	983.4	11.38	87.420	
5,500.0	5,484.5	5,477.6	5,477.0	6.8	5.1	-15.45	521.5	1,165.4	985.7	974.1	11.58	85.145	
5,600.0	5,584.0	5,578.8	5,578.2	6.9	5.2	-15.65	522.4	1,165.8	976.4	964.6	11.78	82.919	
5,700.0	5,683.4	5,678.2	5,677.6	7.0	5.2	-15.85	523.3	1,166.3	967.1	955.2	11.97	80.772	
5,800.0	5,782.9	5,775.0	5,774.4	7.1	5.3	-16.06	524.3	1,166.7	957.9	945.7	12.17	78.714	
5,900.0	5,882.3	5,876.3	5,875.7	7.2	5.4	-16.29	525.6	1,167.3	948.9	936.5	12.37	76.695	
6,000.0	5,981.7	5,976.1	5,975.5	7.3	5.5	-16.53	526.9	1,167.6	939.7	927.2	12.57	74.747	
6,100.0	6,081.2	6,075.4	6,074.7	7.4	5.6	-16.78	528.3	1,167.9	930.6	917.8	12.77	72.866	
6,200.0	6,180.6	6,177.3	6,176.7	7.5	5.7	-17.06	529.9	1,168.0	921.4	908.4	12.97	71.040	
6,300.0	6,280.1	6,275.4	6,274.8	7.6	5.8	-17.33	531.3	1,168.1	912.1	898.9	13.16	69.284	
6,400.0	6,379.5	6,377.6	6,376.9	7.7	5.9	-17.61	532.8	1,168.1	902.8	889.5	13.37	67.548	
6,500.0	6,479.0	6,480.0	6,479.4	7.9	5.9	-17.89	533.9	1,167.9	893.2	879.6	13.56	65.874	
6,600.0	6,578.4	6,578.8	6,578.1	8.0	6.0	-18.15	534.7	1,167.7	883.4	869.7	13.75	64.264	
6,700.0	6,677.9	6,678.1	6,677.4	8.1	6.1	-18.40	535.3	1,167.7	873.7	859.8	13.95	62.653	
6,800.0	6,777.3	6,779.4	6,778.7	8.2	6.2	-18.65	535.8	1,167.6	863.9	849.8	14.14	61.102	
6,900.0	6,876.8	6,886.1	6,885.4	8.3	6.3	-18.92	536.0	1,167.1	853.7	839.4	14.31	59.665	
7,000.0	6,976.2	6,992.0	6,991.3	8.4	6.3	-19.17	535.5	1,166.1	842.7	828.3	14.45	58.310	
7,100.0	7,075.7	7,094.0	7,093.3	8.5	6.3	-19.40	534.3	1,164.7	831.0	816.4	14.60	56.934	
7,200.0	7,175.1	7,193.1	7,192.3	8.7	6.3	-19.62	533.0	1,163.3	819.2	804.5	14.74	55.584	
7,300.0	7,274.6	7,293.4	7,292.7	8.8	6.3	-19.84	531.6	1,161.8	807.4	792.5	14.89	54.236	
7,400.0	7,374.0	7,393.3	7,392.5	8.9	6.3	-20.05	529.9	1,160.5	795.5	780.5	15.04	52.904	
7,500.0	7,473.4	7,491.9	7,491.1	9.0	6.4	-20.24	528.1	1,159.4	783.6	768.5	15.19	51.595	
7,600.0	7,572.9	7,591.8	7,591.0	9.1	6.4	-20.44	526.2	1,158.2	771.9	756.5	15.34	50.301	
7,700.0	7,672.3	7,693.0	7,692.1	9.2	6.4	-20.65	524.3	1,156.8	759.8	744.3	15.51	49.001	
7,800.0	7,771.8	7,789.3	7,788.4	9.4	6.4	-20.83	522.1	1,155.8	747.9	732.2	15.66	47.756	
7,900.0	7,871.2	7,884.6	7,883.7	9.5	6.5	-21.00	520.1	1,155.3	736.4	720.6	15.82	46.556	
8,000.0	7,970.7	7,984.9	7,984.0	9.6	6.5	-21.21	518.3	1,154.7	725.2	709.2	15.99	45.364	
8,100.0	8,070.1	8,082.1	8,081.2	9.7	6.5	-21.41	516.6	1,154.3	714.1	697.9	16.15	44.213	
8,200.0	8,169.6	8,183.2	8,182.2	9.8	6.6	-21.63	514.8	1,153.6	702.7	686.4	16.32	43.051	
8,300.0	8,269.0	8,283.9	8,283.0	10.0	6.6	-21.84	512.8	1,153.1	691.5	675.0	16.50	41.910	
8,400.0	8,368.5	8,379.8	8,378.8	10.1	6.6	-22.02	510.7	1,153.0	680.4	663.8	16.67	40.826	
8,500.0	8,467.9	8,480.2	8,479.2	10.2	6.7	-22.18	508.2	1,152.9	669.2	652.4	16.85	39.727	
8,600.0	8,567.4	8,586.1	8,584.9	10.3	7.8	-22.17	503.6	1,153.9	657.8	640.4	17.34	37.941	
8,700.0	8,666.8	8,694.6	8,692.8	10.5	9.3	-21.55	492.5	1,157.5	645.0	627.4	17.66	36.521	
8,800.0	8,766.3	8,857.3	8,848.3	10.6	10.9	-18.09	449.6	1,170.7	628.4	610.0	18.39	34.174	
8,900.0	8,865.7	8,925.2	8,906.8	10.7	11.7	-15.06	416.9	1,181.3	608.1	589.6	18.52	32.835	
9,000.0	8,965.2	9,005.6	8,971.4	10.8	12.1	-10.62	372.9	1,199.7	594.7	576.2	18.50	32.148	
9,100.0	9,064.6	9,080.3	9,023.7	11.0	12.5	-5.51	323.4	1,219.4	587.1	568.6	18.53	31.687	
9,125.6	9,090.0	9,091.9	9,030.8	11.0	12.6	-4.64	314.9	1,222.7	586.7	568.1	18.62	31.519 CC, ES	
9,200.0	9,164.0	9,118.0	9,046.1	11.1	12.7	-2.59	295.2	1,230.7	590.3	571.2	19.13	30.851	
9,300.0	9,263.5	9,143.7	9,060.0	11.2	12.9	-0.51	275.4	1,239.4	607.1	586.6	20.50	29.610	
9,400.0	9,362.9	9,165.0	9,070.7	11.3	13.0	1.20	259.1	1,247.7	637.5	615.2	22.30	28.586	
9,500.0	9,462.4	9,193.8	9,084.4	11.5	13.1	3.51	236.8	1,259.8	679.4	655.3	24.17	28.114 SF	
9,600.0	9,561.8	9,222.0	9,097.0	11.6	13.2	5.75	214.8	1,272.3	730.8	704.9	25.94	28.179	
9,700.0	9,661.3	9,259.0	9,112.3	11.7	13.3	8.64	185.5	1,288.7	789.9	762.4	27.50	28.725	
9,800.0	9,760.7	9,272.6	9,117.5	11.8	13.4	9.68	174.5	1,294.8	855.3	826.2	29.05	29.442	
9,900.0	9,860.2	9,288.7	9,123.3	12.0	13.4	10.92	161.3	1,302.0	926.1	895.7	30.39	30.471	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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 #8H - OWB - ACTUAL												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8684-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
10,000.0	9,959.6	9,307.0	9,129.2	12.1	13.5	12.32	146.1	1,310.3	1,001.4	969.8	31.56	31.727	
10,100.0	10,059.1	9,307.0	9,129.2	12.2	13.5	12.32	146.1	1,310.3	1,080.3	1,047.7	32.62	33.119	
10,200.0	10,158.5	9,325.3	9,134.4	12.3	13.5	13.69	130.6	1,318.5	1,162.0	1,128.4	33.57	34.620	
10,300.0	10,258.0	9,334.5	9,136.8	12.5	13.6	14.39	122.7	1,322.7	1,246.2	1,211.8	34.41	36.218	
10,400.0	10,357.4	9,355.0	9,141.6	12.6	13.7	15.90	105.0	1,331.8	1,332.7	1,297.5	35.21	37.853	
10,500.0	10,456.9	9,355.0	9,141.6	12.7	13.7	15.90	105.0	1,331.8	1,420.4	1,384.5	35.89	39.577	
10,600.0	10,556.3	9,355.0	9,141.6	12.8	13.7	15.90	105.0	1,331.8	1,509.7	1,473.2	36.52	41.342	
10,700.0	10,655.7	9,368.5	9,144.4	13.0	13.7	16.89	93.3	1,337.9	1,600.1	1,563.0	37.11	43.113	
10,800.0	10,755.2	9,378.7	9,146.4	13.1	13.8	17.62	84.4	1,342.5	1,691.4	1,653.8	37.68	44.894	
10,900.0	10,854.6	9,388.3	9,148.3	13.2	13.8	18.29	76.1	1,346.9	1,783.6	1,745.4	38.21	46.674	
11,000.0	10,954.1	9,403.0	9,151.0	13.4	13.9	19.30	63.3	1,353.6	1,876.5	1,837.7	38.74	48.439	
11,100.0	11,053.5	9,403.0	9,151.0	13.5	13.9	19.30	63.3	1,353.6	1,969.9	1,930.7	39.22	50.221	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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' @ 3567.0usft (MCVAY 8)

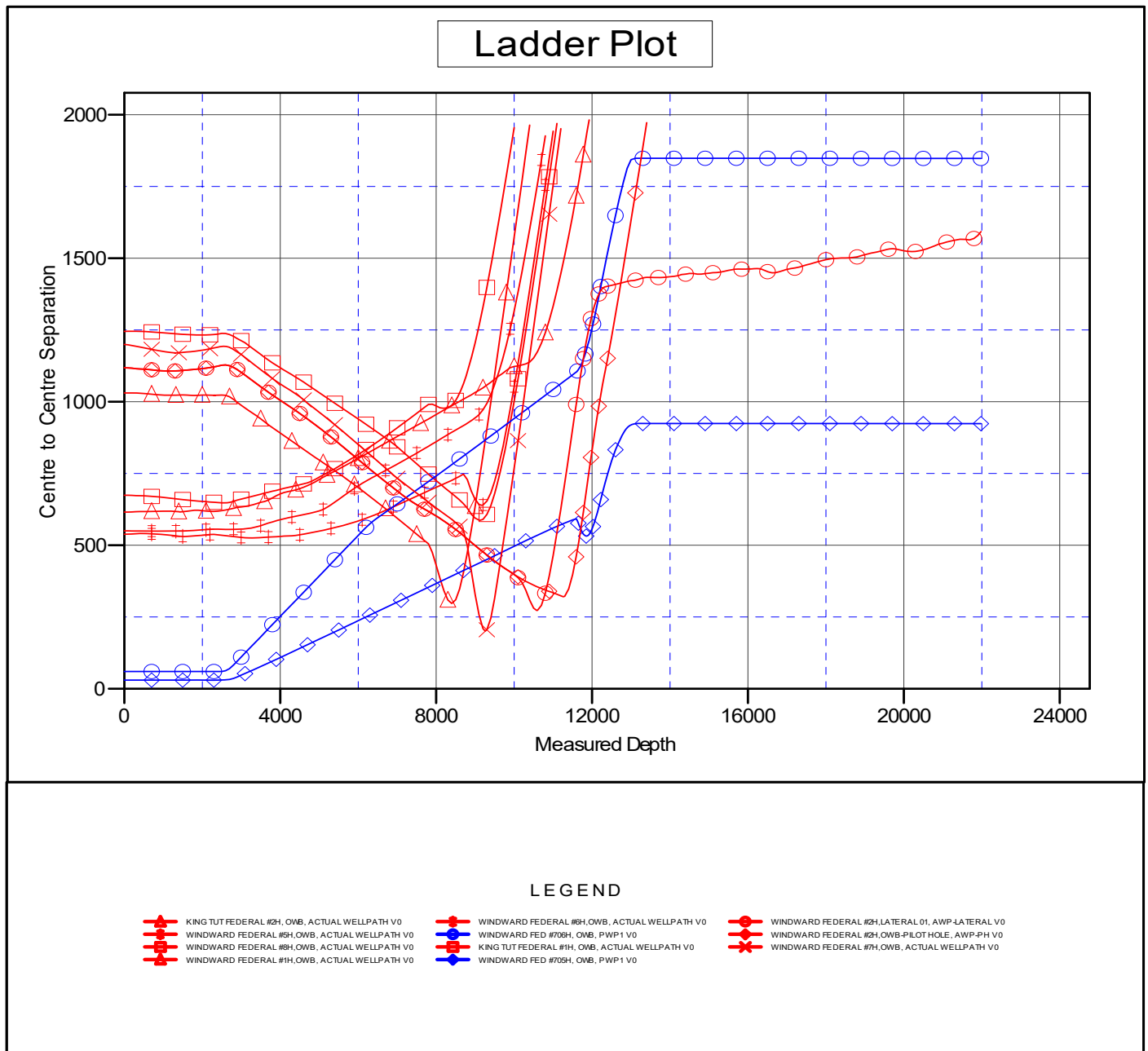
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: WINDWARD FED #704H

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #704H	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' @ 3567.0usft (MCVAY 8)

Offset Depths are relative to Offset Datum

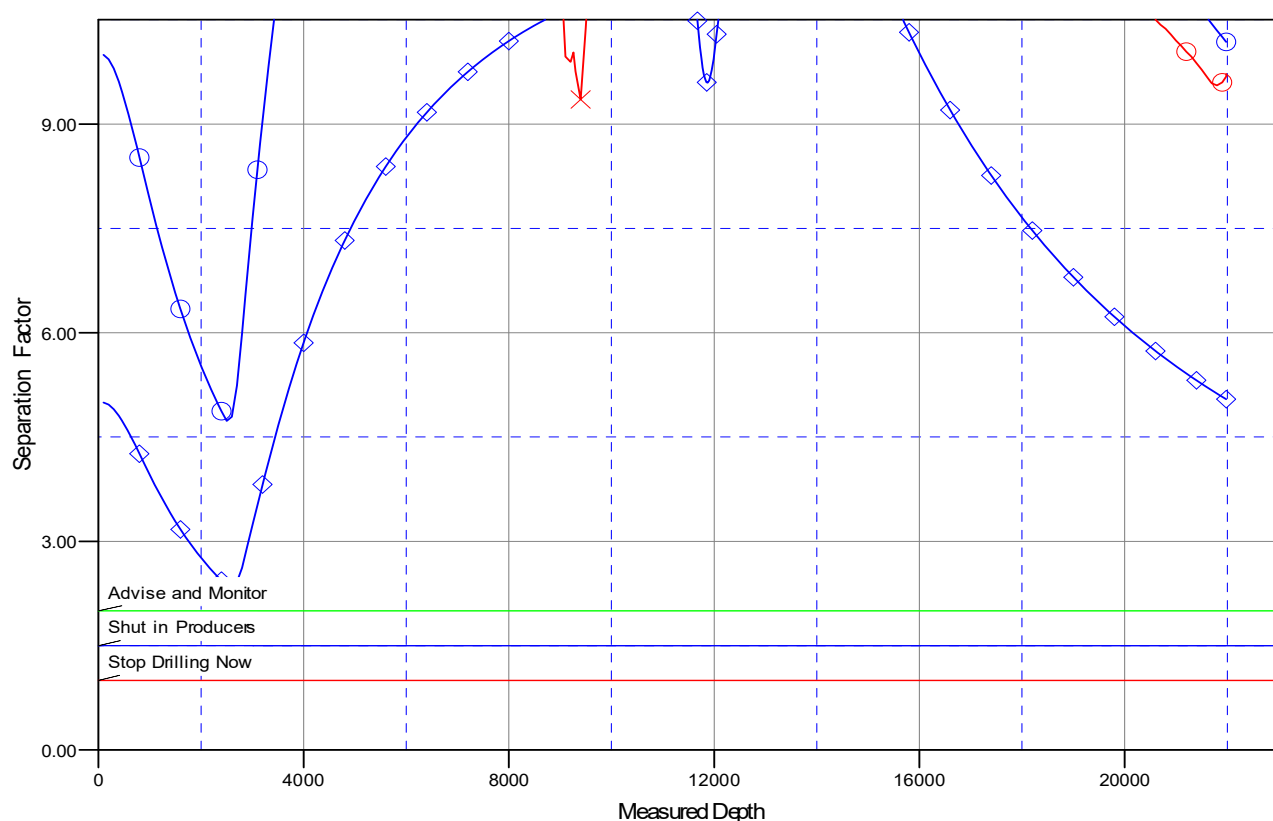
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: WINDWARD FED #704H

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

Grid Convergence at Surface is: 0.33°

Separation Factor Plot



LEGEND

KING TUT FEDERAL #2H, OWB, ACTUAL WELLPATH V0	WINDWARD FEDERAL #6H, OWB, ACTUAL WELLPATH V0	WINDWARD FEDERAL #2H, LATERAL 01, AWP-LATERAL V0
WINDWARD FEDERAL #5H, OWB, ACTUAL WELLPATH V0	WINDWARD FED #704H, OWB, PWP 1 V0	WINDWARD FEDERAL #2H, OWB-PILOT HOLE, AWP-PH V0
WINDWARD FEDERAL #8H, OWB, ACTUAL WELLPATH V0	KING TUT FEDERAL #1H, OWB, ACTUAL WELLPATH V0	WINDWARD FEDERAL #7H, OWB, ACTUAL WELLPATH V0
WINDWARD FEDERAL #1H, OWB, ACTUAL WELLPATH V0	WINDWARD FED #705H, OWB, PWP 1 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 #704H

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Well:	WINDWARD FED #704H	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 #704H			
Well Position	+N/-S	0.0 usft	Northing:	434,667.00 usfi
	+E/-W	0.0 usft	Easting:	689,720.60 usfi
Position Uncertainty		3.0 usft	Wellhead Elevation:	usfi
			Latitude:	32° 11' 36.706 N
			Longitude:	103° 43' 12.124 W
			Ground Level:	3,541.0 usfi

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	10/27/2020	6.69	59.87	47,525.54049315

Design	PWP1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	171.42	

Survey Tool Program	Date	12/11/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,595.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
11,595.0	21,979.4	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	

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Well:	WINDWARD FED #704H	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	77.71	2,600.0	0.4	1.7	-0.1	2.00	2.00	0.00
2,700.0	4.00	77.71	2,699.8	1.5	6.8	-0.5	2.00	2.00	0.00
2,800.0	6.00	77.71	2,799.5	3.3	15.3	-1.0	2.00	2.00	0.00
2,801.5	6.03	77.71	2,800.9	3.4	15.5	-1.0	2.00	2.00	0.00
Start 8793.3 hold at 2801.5 MD									
2,900.0	6.03	77.71	2,898.9	5.6	25.6	-1.7	0.00	0.00	0.00
3,000.0	6.03	77.71	2,998.3	7.8	35.9	-2.4	0.00	0.00	0.00
3,100.0	6.03	77.71	3,097.8	10.0	46.1	-3.1	0.00	0.00	0.00
3,200.0	6.03	77.71	3,197.2	12.3	56.4	-3.7	0.00	0.00	0.00
3,300.0	6.03	77.71	3,296.7	14.5	66.7	-4.4	0.00	0.00	0.00
3,400.0	6.03	77.71	3,396.1	16.8	76.9	-5.1	0.00	0.00	0.00
3,500.0	6.03	77.71	3,495.6	19.0	87.2	-5.8	0.00	0.00	0.00
3,600.0	6.03	77.71	3,595.0	21.2	97.4	-6.5	0.00	0.00	0.00
3,700.0	6.03	77.71	3,694.5	23.5	107.7	-7.1	0.00	0.00	0.00
3,800.0	6.03	77.71	3,793.9	25.7	118.0	-7.8	0.00	0.00	0.00
3,900.0	6.03	77.71	3,893.4	27.9	128.2	-8.5	0.00	0.00	0.00
4,000.0	6.03	77.71	3,992.8	30.2	138.5	-9.2	0.00	0.00	0.00
4,100.0	6.03	77.71	4,092.3	32.4	148.8	-9.8	0.00	0.00	0.00
4,200.0	6.03	77.71	4,191.7	34.6	159.0	-10.5	0.00	0.00	0.00
4,300.0	6.03	77.71	4,291.2	36.9	169.3	-11.2	0.00	0.00	0.00
4,400.0	6.03	77.71	4,390.6	39.1	179.6	-11.9	0.00	0.00	0.00
4,500.0	6.03	77.71	4,490.0	41.4	189.8	-12.6	0.00	0.00	0.00
4,600.0	6.03	77.71	4,589.5	43.6	200.1	-13.2	0.00	0.00	0.00
4,700.0	6.03	77.71	4,688.9	45.8	210.3	-13.9	0.00	0.00	0.00
4,800.0	6.03	77.71	4,788.4	48.1	220.6	-14.6	0.00	0.00	0.00
4,900.0	6.03	77.71	4,887.8	50.3	230.9	-15.3	0.00	0.00	0.00
5,000.0	6.03	77.71	4,987.3	52.5	241.1	-16.0	0.00	0.00	0.00
5,100.0	6.03	77.71	5,086.7	54.8	251.4	-16.6	0.00	0.00	0.00
5,200.0	6.03	77.71	5,186.2	57.0	261.7	-17.3	0.00	0.00	0.00
5,300.0	6.03	77.71	5,285.6	59.2	271.9	-18.0	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Well:	WINDWARD FED #704H	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)
5,400.0	6.03	77.71	5,385.1	61.5	282.2	-18.7	0.00	0.00	0.00
5,500.0	6.03	77.71	5,484.5	63.7	292.5	-19.4	0.00	0.00	0.00
5,600.0	6.03	77.71	5,584.0	66.0	302.7	-20.0	0.00	0.00	0.00
5,700.0	6.03	77.71	5,683.4	68.2	313.0	-20.7	0.00	0.00	0.00
5,800.0	6.03	77.71	5,782.9	70.4	323.2	-21.4	0.00	0.00	0.00
5,900.0	6.03	77.71	5,882.3	72.7	333.5	-22.1	0.00	0.00	0.00
6,000.0	6.03	77.71	5,981.7	74.9	343.8	-22.8	0.00	0.00	0.00
6,100.0	6.03	77.71	6,081.2	77.1	354.0	-23.4	0.00	0.00	0.00
6,200.0	6.03	77.71	6,180.6	79.4	364.3	-24.1	0.00	0.00	0.00
6,300.0	6.03	77.71	6,280.1	81.6	374.6	-24.8	0.00	0.00	0.00
6,400.0	6.03	77.71	6,379.5	83.8	384.8	-25.5	0.00	0.00	0.00
6,500.0	6.03	77.71	6,479.0	86.1	395.1	-26.2	0.00	0.00	0.00
6,600.0	6.03	77.71	6,578.4	88.3	405.4	-26.8	0.00	0.00	0.00
6,700.0	6.03	77.71	6,677.9	90.5	415.6	-27.5	0.00	0.00	0.00
6,800.0	6.03	77.71	6,777.3	92.8	425.9	-28.2	0.00	0.00	0.00
6,900.0	6.03	77.71	6,876.8	95.0	436.1	-28.9	0.00	0.00	0.00
7,000.0	6.03	77.71	6,976.2	97.3	446.4	-29.6	0.00	0.00	0.00
7,100.0	6.03	77.71	7,075.7	99.5	456.7	-30.2	0.00	0.00	0.00
7,200.0	6.03	77.71	7,175.1	101.7	466.9	-30.9	0.00	0.00	0.00
7,300.0	6.03	77.71	7,274.6	104.0	477.2	-31.6	0.00	0.00	0.00
7,400.0	6.03	77.71	7,374.0	106.2	487.5	-32.3	0.00	0.00	0.00
7,500.0	6.03	77.71	7,473.4	108.4	497.7	-33.0	0.00	0.00	0.00
7,600.0	6.03	77.71	7,572.9	110.7	508.0	-33.6	0.00	0.00	0.00
7,700.0	6.03	77.71	7,672.3	112.9	518.3	-34.3	0.00	0.00	0.00
7,800.0	6.03	77.71	7,771.8	115.1	528.5	-35.0	0.00	0.00	0.00
7,900.0	6.03	77.71	7,871.2	117.4	538.8	-35.7	0.00	0.00	0.00
8,000.0	6.03	77.71	7,970.7	119.6	549.0	-36.4	0.00	0.00	0.00
8,100.0	6.03	77.71	8,070.1	121.9	559.3	-37.0	0.00	0.00	0.00
8,200.0	6.03	77.71	8,169.6	124.1	569.6	-37.7	0.00	0.00	0.00
8,300.0	6.03	77.71	8,269.0	126.3	579.8	-38.4	0.00	0.00	0.00
8,400.0	6.03	77.71	8,368.5	128.6	590.1	-39.1	0.00	0.00	0.00
8,500.0	6.03	77.71	8,467.9	130.8	600.4	-39.7	0.00	0.00	0.00
8,600.0	6.03	77.71	8,567.4	133.0	610.6	-40.4	0.00	0.00	0.00
8,700.0	6.03	77.71	8,666.8	135.3	620.9	-41.1	0.00	0.00	0.00
8,800.0	6.03	77.71	8,766.3	137.5	631.2	-41.8	0.00	0.00	0.00
8,900.0	6.03	77.71	8,865.7	139.7	641.4	-42.5	0.00	0.00	0.00
9,000.0	6.03	77.71	8,965.2	142.0	651.7	-43.1	0.00	0.00	0.00
9,100.0	6.03	77.71	9,064.6	144.2	661.9	-43.8	0.00	0.00	0.00
9,200.0	6.03	77.71	9,164.0	146.5	672.2	-44.5	0.00	0.00	0.00
9,300.0	6.03	77.71	9,263.5	148.7	682.5	-45.2	0.00	0.00	0.00
9,400.0	6.03	77.71	9,362.9	150.9	692.7	-45.9	0.00	0.00	0.00
9,500.0	6.03	77.71	9,462.4	153.2	703.0	-46.5	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Well:	WINDWARD FED #704H	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	6.03	77.71	9,561.8	155.4	713.3	-47.2	0.00	0.00	0.00
9,700.0	6.03	77.71	9,661.3	157.6	723.5	-47.9	0.00	0.00	0.00
9,800.0	6.03	77.71	9,760.7	159.9	733.8	-48.6	0.00	0.00	0.00
9,900.0	6.03	77.71	9,860.2	162.1	744.1	-49.3	0.00	0.00	0.00
10,000.0	6.03	77.71	9,959.6	164.3	754.3	-49.9	0.00	0.00	0.00
10,100.0	6.03	77.71	10,059.1	166.6	764.6	-50.6	0.00	0.00	0.00
10,200.0	6.03	77.71	10,158.5	168.8	774.8	-51.3	0.00	0.00	0.00
10,300.0	6.03	77.71	10,258.0	171.0	785.1	-52.0	0.00	0.00	0.00
10,400.0	6.03	77.71	10,357.4	173.3	795.4	-52.7	0.00	0.00	0.00
10,500.0	6.03	77.71	10,456.9	175.5	805.6	-53.3	0.00	0.00	0.00
10,600.0	6.03	77.71	10,556.3	177.8	815.9	-54.0	0.00	0.00	0.00
10,700.0	6.03	77.71	10,655.7	180.0	826.2	-54.7	0.00	0.00	0.00
10,800.0	6.03	77.71	10,755.2	182.2	836.4	-55.4	0.00	0.00	0.00
10,900.0	6.03	77.71	10,854.6	184.5	846.7	-56.1	0.00	0.00	0.00
11,000.0	6.03	77.71	10,954.1	186.7	857.0	-56.7	0.00	0.00	0.00
11,100.0	6.03	77.71	11,053.5	188.9	867.2	-57.4	0.00	0.00	0.00
11,200.0	6.03	77.71	11,153.0	191.2	877.5	-58.1	0.00	0.00	0.00
11,300.0	6.03	77.71	11,252.4	193.4	887.7	-58.8	0.00	0.00	0.00
11,400.0	6.03	77.71	11,351.9	195.6	898.0	-59.5	0.00	0.00	0.00
11,500.0	6.03	77.71	11,451.3	197.9	908.3	-60.1	0.00	0.00	0.00
11,594.8	6.03	77.71	11,545.6	200.0	918.0	-60.8	0.00	0.00	0.00
Start DLS 12.00 TFO 70.58									
11,600.0	6.26	83.11	11,550.8	200.1	918.5	-60.8	12.00	4.52	103.87
11,700.0	15.68	127.42	11,649.0	192.5	934.8	-50.9	12.00	9.41	44.31
11,800.0	27.19	137.02	11,741.9	167.5	961.2	-22.2	12.00	11.51	9.60
11,900.0	38.99	141.13	11,825.6	126.1	996.6	24.0	12.00	11.79	4.11
12,000.0	50.87	143.55	11,896.2	70.2	1,039.5	85.7	12.00	11.88	2.42
12,100.0	62.78	145.26	11,950.9	2.3	1,088.1	160.1	12.00	11.91	1.71
12,200.0	74.71	146.63	11,987.1	-74.8	1,140.2	244.1	12.00	11.93	1.38
12,300.0	86.65	147.86	12,003.2	-157.7	1,193.4	334.0	12.00	11.94	1.23
12,328.5	90.06	148.20	12,004.0	-181.9	1,208.5	360.2	12.00	11.94	1.19
Start DLS 4.00 TFO 89.98									
12,400.0	90.06	151.06	12,004.0	-243.5	1,244.7	426.5	4.00	0.00	4.00
12,500.0	90.06	155.06	12,003.9	-332.7	1,290.0	521.4	4.00	0.00	4.00
12,600.0	90.06	159.06	12,003.8	-424.7	1,328.9	618.3	4.00	0.00	4.00
12,700.0	90.06	163.06	12,003.6	-519.3	1,361.4	716.6	4.00	0.00	4.00
12,800.0	90.06	167.06	12,003.5	-615.9	1,387.2	816.0	4.00	0.00	4.00
12,900.0	90.06	171.06	12,003.4	-714.1	1,406.1	915.9	4.00	0.00	4.00
13,000.0	90.06	175.06	12,003.3	-813.3	1,418.2	1,015.8	4.00	0.00	4.00
13,100.0	90.06	179.06	12,003.2	-913.1	1,423.4	1,115.3	4.00	0.00	4.00
13,114.8	90.06	179.65	12,003.2	-927.9	1,423.5	1,130.0	4.00	0.00	4.00
Start 8864.6 hold at 13114.8 MD									
13,200.0	90.06	179.65	12,003.1	-1,013.1	1,424.1	1,214.3	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Well:	WINDWARD FED #704H	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)
13,300.0	90.06	179.65	12,003.0	-1,113.1	1,424.7	1,313.3	0.00	0.00	0.00
13,400.0	90.06	179.65	12,002.9	-1,213.1	1,425.3	1,412.2	0.00	0.00	0.00
13,500.0	90.06	179.65	12,002.8	-1,313.1	1,425.9	1,511.2	0.00	0.00	0.00
13,600.0	90.06	179.65	12,002.7	-1,413.1	1,426.5	1,610.2	0.00	0.00	0.00
13,700.0	90.06	179.65	12,002.6	-1,513.1	1,427.1	1,709.1	0.00	0.00	0.00
13,800.0	90.06	179.65	12,002.5	-1,613.1	1,427.7	1,808.1	0.00	0.00	0.00
13,900.0	90.06	179.65	12,002.4	-1,713.1	1,428.3	1,907.1	0.00	0.00	0.00
14,000.0	90.06	179.65	12,002.3	-1,813.1	1,428.9	2,006.1	0.00	0.00	0.00
14,100.0	90.06	179.65	12,002.2	-1,913.1	1,429.6	2,105.0	0.00	0.00	0.00
14,200.0	90.06	179.65	12,002.1	-2,013.1	1,430.2	2,204.0	0.00	0.00	0.00
14,300.0	90.06	179.65	12,002.0	-2,113.1	1,430.8	2,303.0	0.00	0.00	0.00
14,400.0	90.06	179.65	12,001.9	-2,213.1	1,431.4	2,401.9	0.00	0.00	0.00
14,500.0	90.06	179.65	12,001.8	-2,313.1	1,432.0	2,500.9	0.00	0.00	0.00
14,600.0	90.06	179.65	12,001.7	-2,413.1	1,432.6	2,599.9	0.00	0.00	0.00
14,700.0	90.06	179.65	12,001.6	-2,513.1	1,433.2	2,698.8	0.00	0.00	0.00
14,800.0	90.06	179.65	12,001.5	-2,613.1	1,433.8	2,797.8	0.00	0.00	0.00
14,900.0	90.06	179.65	12,001.3	-2,713.1	1,434.5	2,896.8	0.00	0.00	0.00
15,000.0	90.06	179.65	12,001.2	-2,813.1	1,435.1	2,995.8	0.00	0.00	0.00
15,100.0	90.06	179.65	12,001.1	-2,913.1	1,435.7	3,094.7	0.00	0.00	0.00
15,200.0	90.06	179.65	12,001.0	-3,013.1	1,436.3	3,193.7	0.00	0.00	0.00
15,300.0	90.06	179.65	12,000.9	-3,113.1	1,436.9	3,292.7	0.00	0.00	0.00
15,400.0	90.06	179.65	12,000.8	-3,213.1	1,437.5	3,391.6	0.00	0.00	0.00
15,500.0	90.06	179.65	12,000.7	-3,313.1	1,438.1	3,490.6	0.00	0.00	0.00
15,600.0	90.06	179.65	12,000.6	-3,413.1	1,438.7	3,589.6	0.00	0.00	0.00
15,700.0	90.06	179.65	12,000.5	-3,513.1	1,439.3	3,688.5	0.00	0.00	0.00
15,800.0	90.06	179.65	12,000.4	-3,613.1	1,440.0	3,787.5	0.00	0.00	0.00
15,900.0	90.06	179.65	12,000.3	-3,713.1	1,440.6	3,886.5	0.00	0.00	0.00
16,000.0	90.06	179.65	12,000.2	-3,813.1	1,441.2	3,985.5	0.00	0.00	0.00
16,100.0	90.06	179.65	12,000.1	-3,913.1	1,441.8	4,084.4	0.00	0.00	0.00
16,200.0	90.06	179.65	12,000.0	-4,013.1	1,442.4	4,183.4	0.00	0.00	0.00
16,300.0	90.06	179.65	11,999.9	-4,113.1	1,443.0	4,282.4	0.00	0.00	0.00
16,400.0	90.06	179.65	11,999.8	-4,213.1	1,443.6	4,381.3	0.00	0.00	0.00
16,500.0	90.06	179.65	11,999.7	-4,313.1	1,444.2	4,480.3	0.00	0.00	0.00
16,600.0	90.06	179.65	11,999.6	-4,413.1	1,444.8	4,579.3	0.00	0.00	0.00
16,700.0	90.06	179.65	11,999.5	-4,513.1	1,445.5	4,678.2	0.00	0.00	0.00
16,800.0	90.06	179.65	11,999.4	-4,613.1	1,446.1	4,777.2	0.00	0.00	0.00
16,900.0	90.06	179.65	11,999.3	-4,713.1	1,446.7	4,876.2	0.00	0.00	0.00
17,000.0	90.06	179.65	11,999.2	-4,813.1	1,447.3	4,975.2	0.00	0.00	0.00
17,100.0	90.06	179.65	11,999.1	-4,913.1	1,447.9	5,074.1	0.00	0.00	0.00
17,200.0	90.06	179.65	11,999.0	-5,013.1	1,448.5	5,173.1	0.00	0.00	0.00
17,300.0	90.06	179.65	11,998.9	-5,113.1	1,449.1	5,272.1	0.00	0.00	0.00
17,400.0	90.06	179.65	11,998.8	-5,213.1	1,449.7	5,371.0	0.00	0.00	0.00
17,500.0	90.06	179.65	11,998.6	-5,313.1	1,450.4	5,470.0	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Well:	WINDWARD FED #704H	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)
17,600.0	90.06	179.65	11,998.5	-5,413.1	1,451.0	5,569.0	0.00	0.00	0.00
17,700.0	90.06	179.65	11,998.4	-5,513.1	1,451.6	5,667.9	0.00	0.00	0.00
17,800.0	90.06	179.65	11,998.3	-5,613.1	1,452.2	5,766.9	0.00	0.00	0.00
17,900.0	90.06	179.65	11,998.2	-5,713.1	1,452.8	5,865.9	0.00	0.00	0.00
18,000.0	90.06	179.65	11,998.1	-5,813.1	1,453.4	5,964.8	0.00	0.00	0.00
18,100.0	90.06	179.65	11,998.0	-5,913.1	1,454.0	6,063.8	0.00	0.00	0.00
18,200.0	90.06	179.65	11,997.9	-6,013.1	1,454.6	6,162.8	0.00	0.00	0.00
18,300.0	90.06	179.65	11,997.8	-6,113.0	1,455.2	6,261.8	0.00	0.00	0.00
18,400.0	90.06	179.65	11,997.7	-6,213.0	1,455.9	6,360.7	0.00	0.00	0.00
18,500.0	90.06	179.65	11,997.6	-6,313.0	1,456.5	6,459.7	0.00	0.00	0.00
18,600.0	90.06	179.65	11,997.5	-6,413.0	1,457.1	6,558.7	0.00	0.00	0.00
18,700.0	90.06	179.65	11,997.4	-6,513.0	1,457.7	6,657.6	0.00	0.00	0.00
18,800.0	90.06	179.65	11,997.3	-6,613.0	1,458.3	6,756.6	0.00	0.00	0.00
18,900.0	90.06	179.65	11,997.2	-6,713.0	1,458.9	6,855.6	0.00	0.00	0.00
19,000.0	90.06	179.65	11,997.1	-6,813.0	1,459.5	6,954.5	0.00	0.00	0.00
19,100.0	90.06	179.65	11,997.0	-6,913.0	1,460.1	7,053.5	0.00	0.00	0.00
19,200.0	90.06	179.65	11,996.9	-7,013.0	1,460.8	7,152.5	0.00	0.00	0.00
19,300.0	90.06	179.65	11,996.8	-7,113.0	1,461.4	7,251.5	0.00	0.00	0.00
19,400.0	90.06	179.65	11,996.7	-7,213.0	1,462.0	7,350.4	0.00	0.00	0.00
19,500.0	90.06	179.65	11,996.6	-7,313.0	1,462.6	7,449.4	0.00	0.00	0.00
19,600.0	90.06	179.65	11,996.5	-7,413.0	1,463.2	7,548.4	0.00	0.00	0.00
19,700.0	90.06	179.65	11,996.4	-7,513.0	1,463.8	7,647.3	0.00	0.00	0.00
19,800.0	90.06	179.65	11,996.3	-7,613.0	1,464.4	7,746.3	0.00	0.00	0.00
19,900.0	90.06	179.65	11,996.2	-7,713.0	1,465.0	7,845.3	0.00	0.00	0.00
20,000.0	90.06	179.65	11,996.1	-7,813.0	1,465.6	7,944.2	0.00	0.00	0.00
20,100.0	90.06	179.65	11,996.0	-7,913.0	1,466.3	8,043.2	0.00	0.00	0.00
20,200.0	90.06	179.65	11,995.8	-8,013.0	1,466.9	8,142.2	0.00	0.00	0.00
20,300.0	90.06	179.65	11,995.7	-8,113.0	1,467.5	8,241.2	0.00	0.00	0.00
20,400.0	90.06	179.65	11,995.6	-8,213.0	1,468.1	8,340.1	0.00	0.00	0.00
20,500.0	90.06	179.65	11,995.5	-8,313.0	1,468.7	8,439.1	0.00	0.00	0.00
20,600.0	90.06	179.65	11,995.4	-8,413.0	1,469.3	8,538.1	0.00	0.00	0.00
20,700.0	90.06	179.65	11,995.3	-8,513.0	1,469.9	8,637.0	0.00	0.00	0.00
20,800.0	90.06	179.65	11,995.2	-8,613.0	1,470.5	8,736.0	0.00	0.00	0.00
20,900.0	90.06	179.65	11,995.1	-8,713.0	1,471.2	8,835.0	0.00	0.00	0.00
21,000.0	90.06	179.65	11,995.0	-8,813.0	1,471.8	8,933.9	0.00	0.00	0.00
21,100.0	90.06	179.65	11,994.9	-8,913.0	1,472.4	9,032.9	0.00	0.00	0.00
21,200.0	90.06	179.65	11,994.8	-9,013.0	1,473.0	9,131.9	0.00	0.00	0.00
21,300.0	90.06	179.65	11,994.7	-9,113.0	1,473.6	9,230.9	0.00	0.00	0.00
21,400.0	90.06	179.65	11,994.6	-9,213.0	1,474.2	9,329.8	0.00	0.00	0.00
21,500.0	90.06	179.65	11,994.5	-9,313.0	1,474.8	9,428.8	0.00	0.00	0.00
21,600.0	90.06	179.65	11,994.4	-9,413.0	1,475.4	9,527.8	0.00	0.00	0.00
21,700.0	90.06	179.65	11,994.3	-9,513.0	1,476.0	9,626.7	0.00	0.00	0.00

Concho Resources LLC

Survey Report

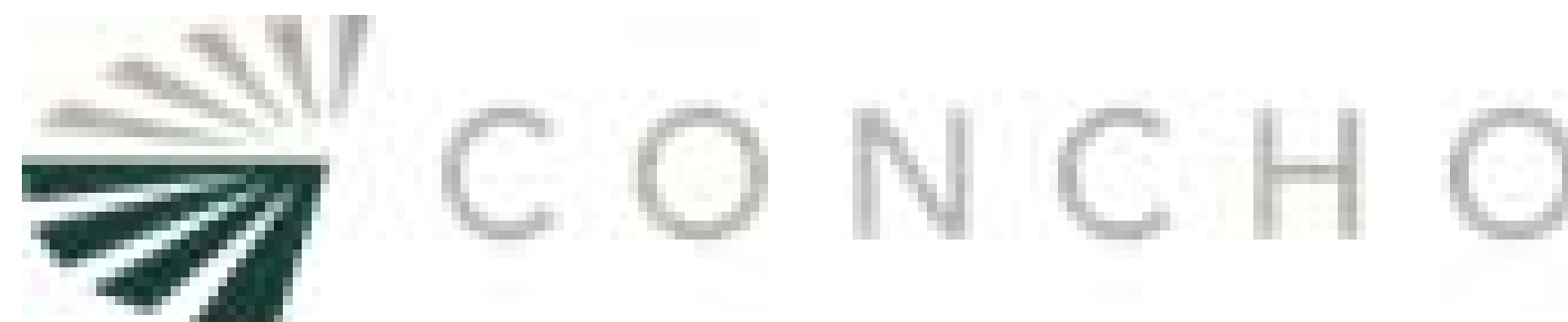
Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3567.0usft (MCVAY 8)
Well:	WINDWARD FED #704H	North Reference:	Grid
Wellbore:	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)
21,800.0	90.06	179.65	11,994.2	-9,613.0	1,476.7	9,725.7	0.00	0.00	0.00
21,900.0	90.06	179.65	11,994.1	-9,713.0	1,477.3	9,824.7	0.00	0.00	0.00
21,979.4	90.06	179.65	11,994.0	-9,792.4	1,477.8	9,903.3	0.00	0.00	0.00
TD at 21979.4									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP (WINDWARD FE - hit/miss target - Shape - plan misses target center by 29.4usft at 21900.0usft MD (11994.1 TVD, -9713.0 N, 1477.3 E) - Point	0.00	0.00	11,994.0	-9,742.4	1,477.5	424,924.60	691,198.10	32° 10' 0.213 N	103° 42' 55.581 W
PBHL (WINDWARD F - plan hits target center - Rectangle (sides W100.0 H10,418.0 D20.0)	0.06	359.65	11,994.0	-9,792.4	1,477.8	424,874.62	691,198.35	32° 9' 59.718 N	103° 42' 55.582 W
FTP (WINDWARD FE - plan misses target center by 669.4usft at 11929.5usft MD (11847.9 TVD, 111.1 N, 1008.6 E) - Circle (radius 50.0)	0.00	0.01	12,004.0	620.1	1,414.3	435,287.10	691,134.90	32° 11' 42.762 N	103° 42' 55.624 W

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2500	2500	0	0	Start Build 2.00
2801	2801	3	15	Start 8793.3 hold at 2801.5 MD
11,595	11,546	200	918	Start DLS 12.00 TFO 70.58
12,329	12,004	-182	1209	Start DLS 4.00 TFO 89.98
13,115	12,003	-928	1424	Start 8864.6 hold at 13114.8 MD
21,979	11,994	-9792	1478	TD at 21979.4

Checked By: _____ Approved By: _____ Date: _____



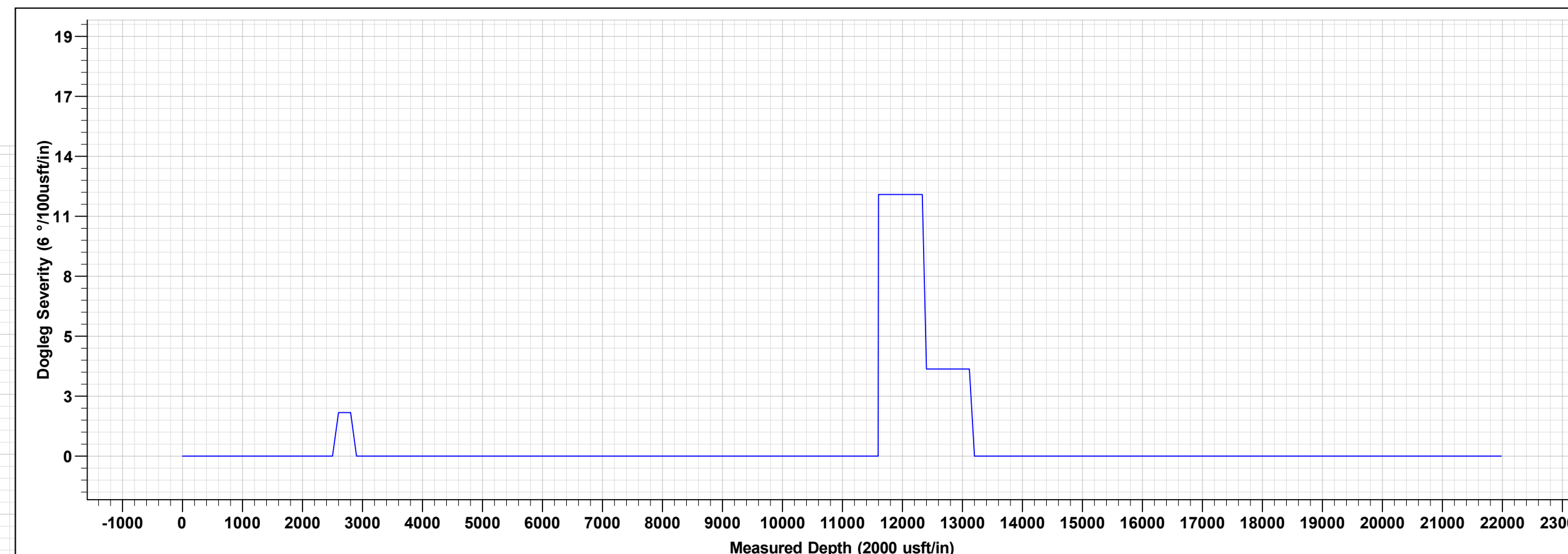
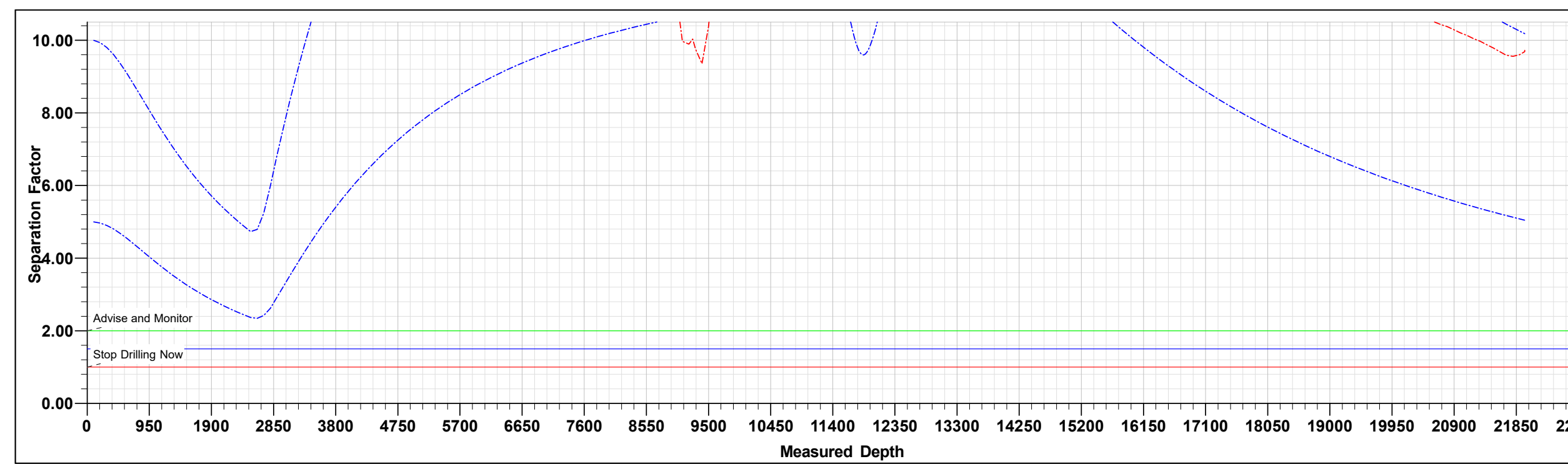
Project: BULLDOG PROSPECT (NM-E)
Site: WINDWARD FEDERAL PROJECT (BULLDOG 2432)
Well: WINDWARD FED #704H
Wellbore: OWB
Design: PWP1
GL: 3544.0
KB=26' @ 3567.0usft (MCVAY 8)

WELL DETAILS: WINDWARD FED #704H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	434667.00	689720.60	32° 11' 36.706 N	103° 43' 12.124 W

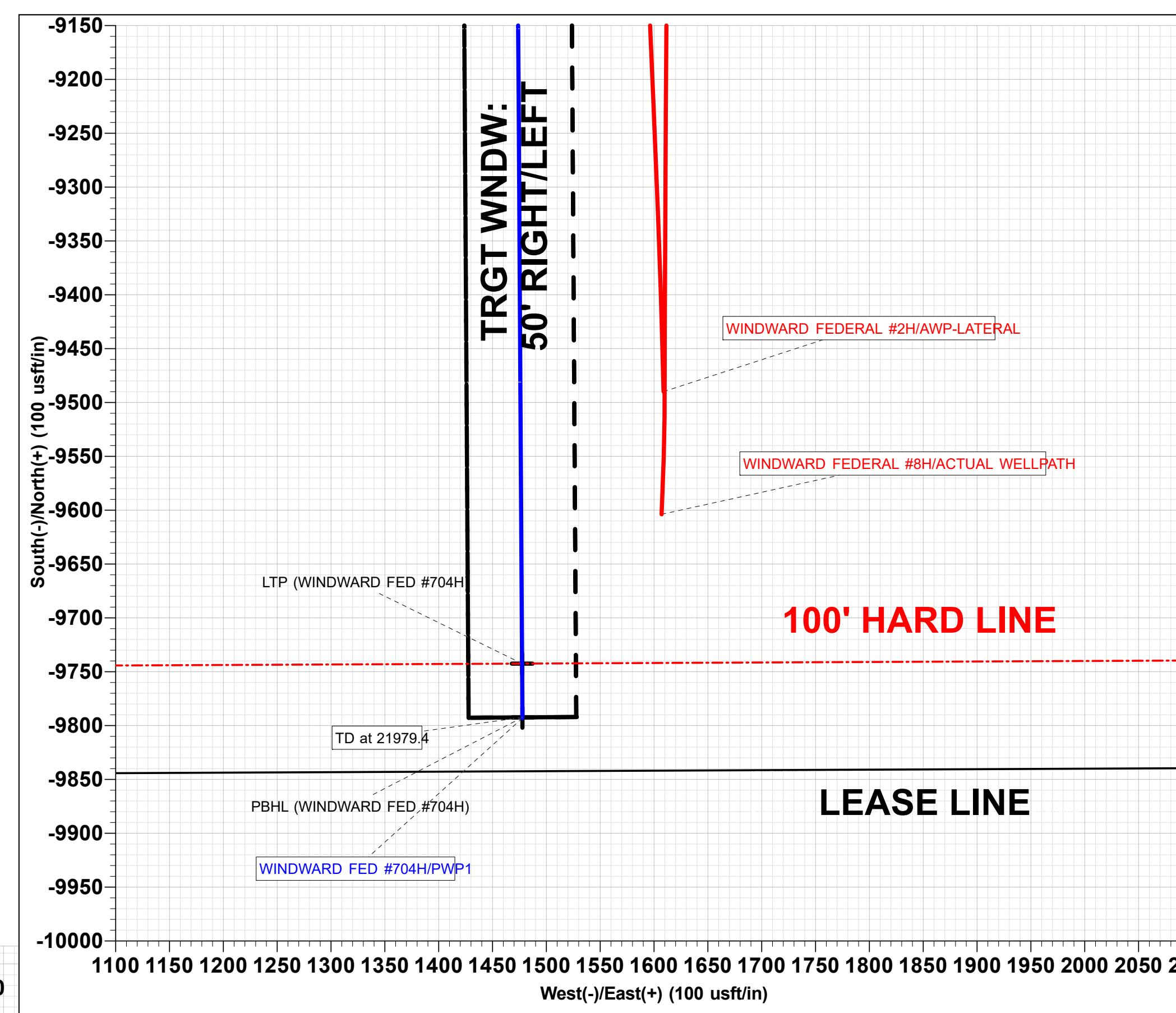
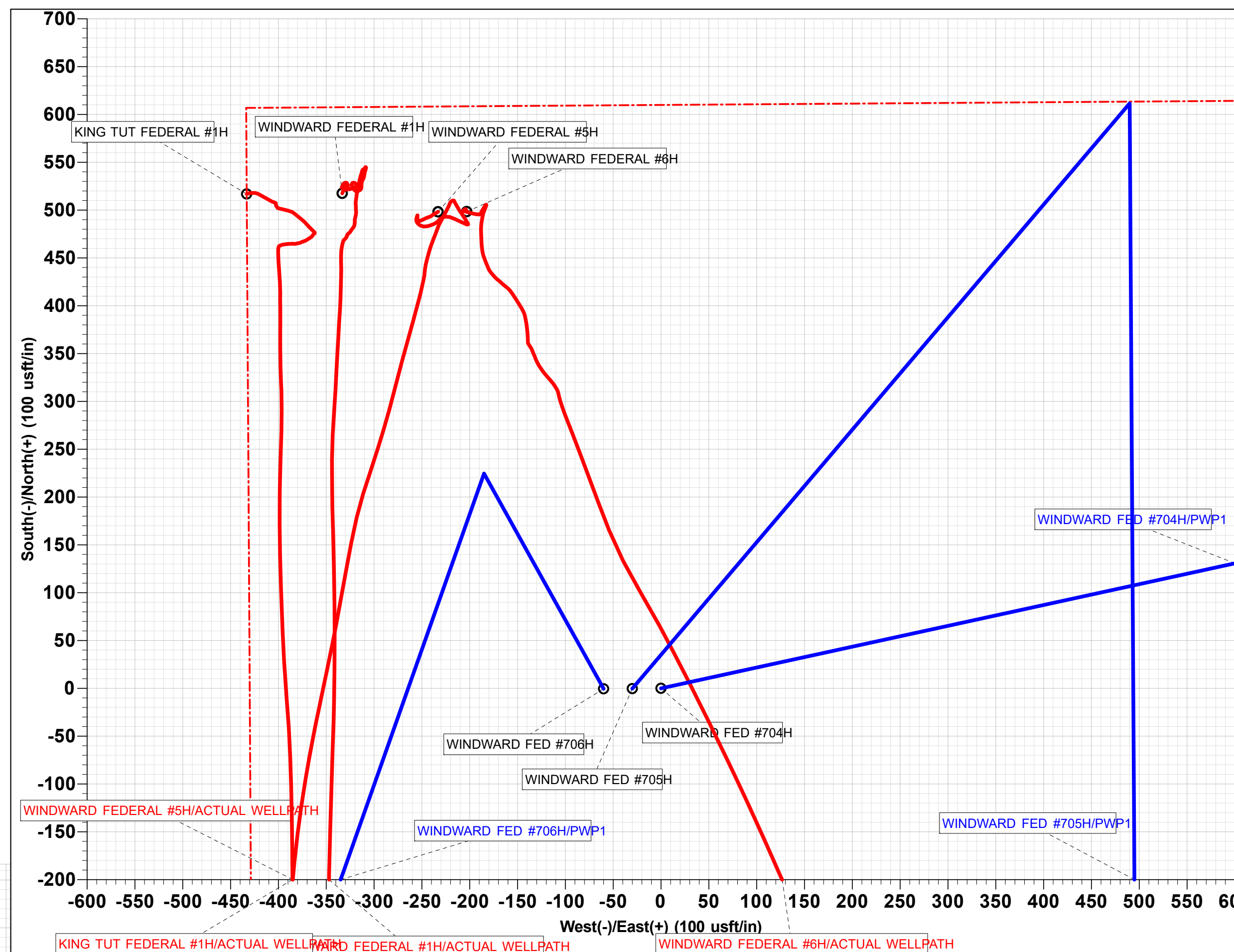
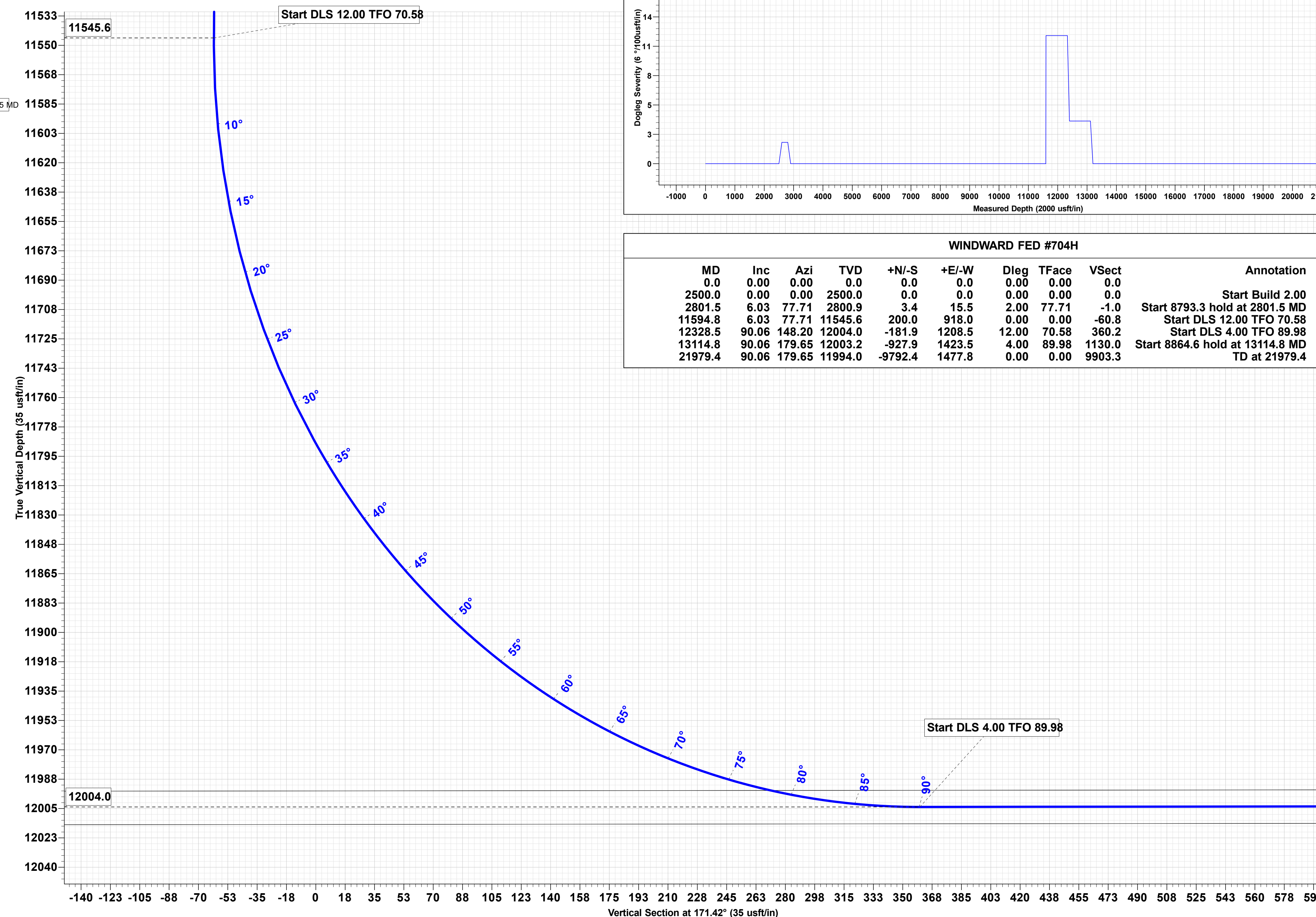
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LTP (WINDWARD FED #704H)	11994.0	-9742.4	1477.5	424924.60	691198.10	32° 10' 0.213 N	103° 42' 55.581 W
PBHL (WINDWARD FED #704H)	11994.0	-9792.4	1477.8	424874.62	691198.36	32° 9' 59.718 N	103° 42' 55.582 W
FTP (WINDWARD FED #704H)	12004.0	620.1	1414.3	435287.10	691134.90	32° 11' 42.762 N	103° 42' 55.624 W

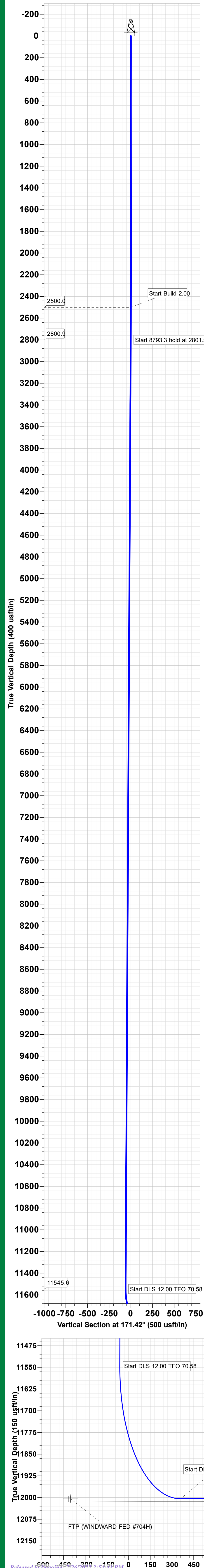
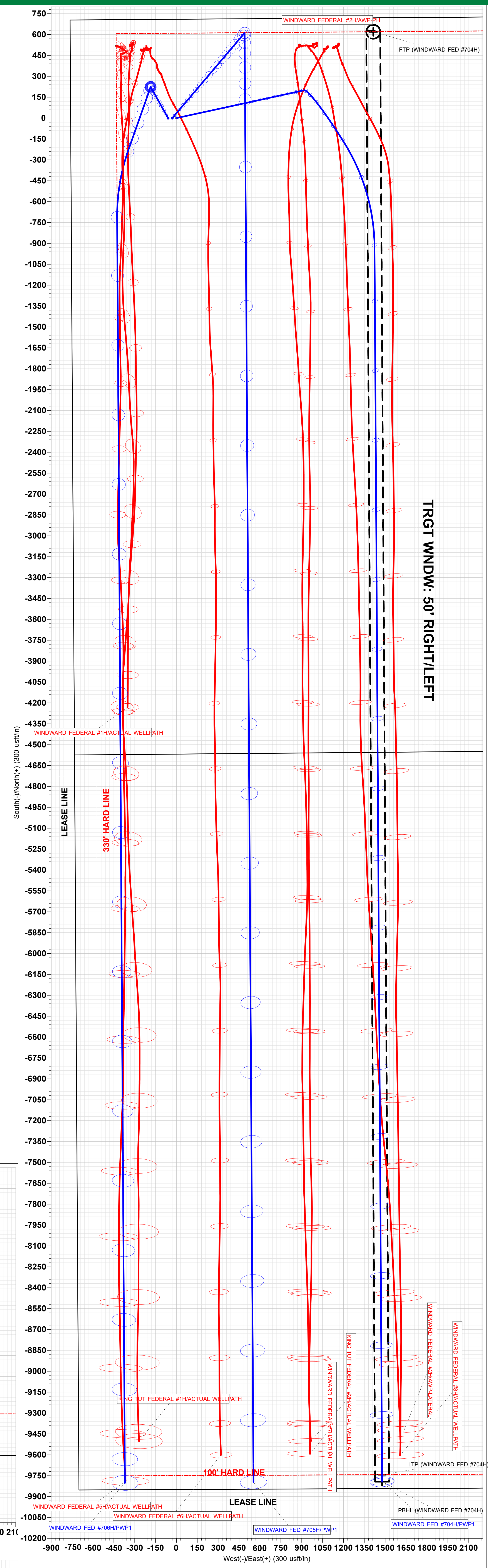


WINDWARD FED #704H

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	Start 8793.3 hold at 2801.5 MD
2801.5	6.03	77.71	2800.9	3.4	15.5	2.00	77.71	-1.0	Start DLS 12.00 TFO 70.58
11594.8	6.03	77.71	11545.6	200.0	918.0	0.00	0.00	-60.8	Start DLS 4.00 TFO 89.98
12328.5	90.06	148.20	12004.0	-181.9	1208.5	12.00	70.58	360.2	Start 8864.6 hold at 13114.8 MD
13114.8	90.06	179.65	12003.2	-927.9	1423.5	4.00	89.98	1130.0	TD at 21979.4
21979.4	90.06	179.65	11994.0	-9792.4	1477.8	0.00	0.00	9903.3	

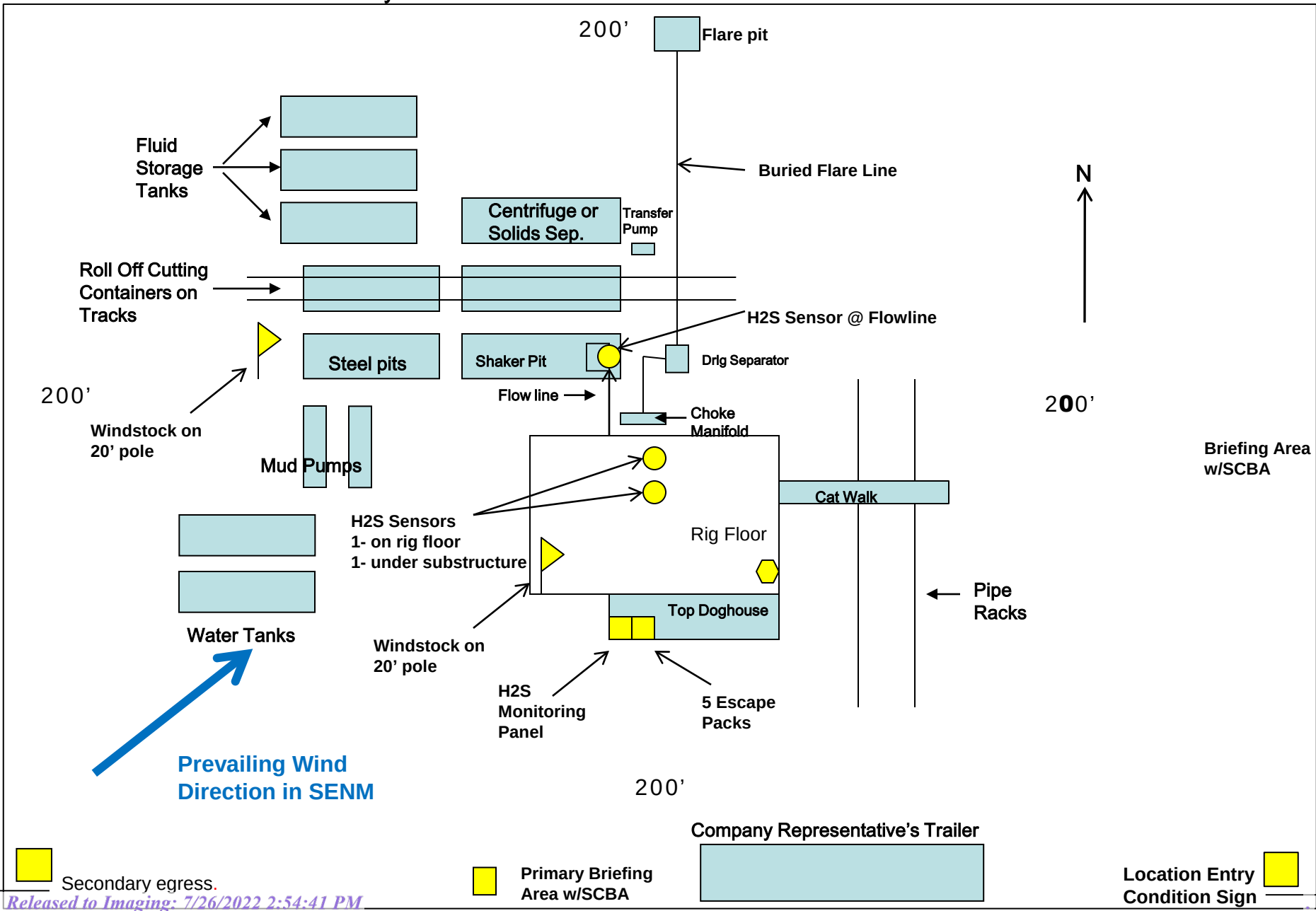


TRGT WNDW: 10'
ABOVE/BELOW



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

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



COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

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

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

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

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

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

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

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

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

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

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

W A R N I N G

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

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

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
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 120022

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number: 120022
	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